PRODUCT CATALOG

515



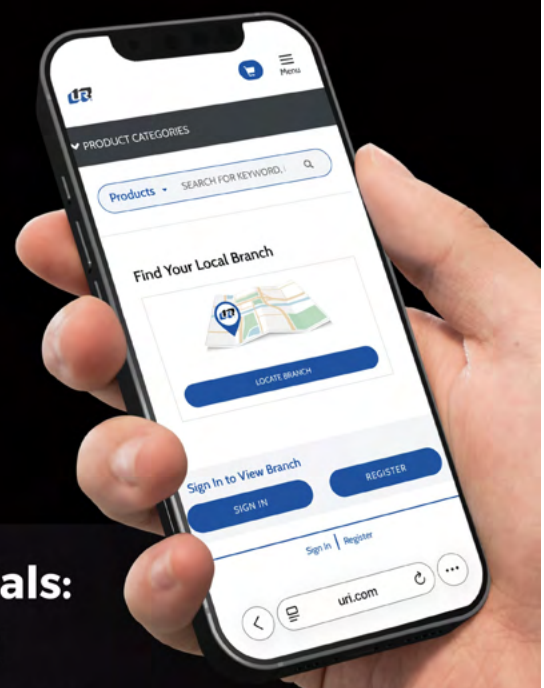
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TABLE OF CONTENTS

MOTORS AND ACCESSORIES	**NRP - IRP - GENTEQ - CENTURY - US MOTORS - FASCO** Direct Drive Motors Condenser Fan Motors Special Purpose Motors OEM Motors	**1-56**
COMPRESSORS	**COPELAND - TECUMSEH - DANFOSS - EMBRACO - BITZER - CARLYLE - BRAINERD** Direct Drive Motors Condenser Fan Motors Special Purpose Motors OEM Motors	**57-134**
REFRIGERATION EQUIPMENT	**TRENTON - BOHN - LARKIN - COPELAND - TECUMSEH** Condensing Units Evaporators Air/Water Cooled Condensers Receivers	**135-196**
REFRIGERATION & A/C ACCESSORIES	**SPORLAN - EMERSON - DANFOSS - SUPERIOR - HENRY - MUELLER - WATTS** Expansion/Solenoid/Shut-Off Valves Pressure Regulators Driers Oil Control Water Pumps	**197-296**
PACKAGED CHILLERS & ACCESSORIES	**DRAKE - STANDARD REFRIGERATION - ALFA-LAVAL** Packaged, Split Chillers Barrels Brazed Plate Chillers	**297-308**
REFRIGERANTS & LUBRICANTS	**NATIONAL REFRIGERANTS - NATIONAL LUBRICANTS - NU-CALGON** Refrigerants Oils Test Kits	**309-322**
ICE MACHINES & FOOD SERVICE	**MANITOWOC - KOOLAIRE - SCOTSMAN - CONTINENTAL - BALLY - KASON** Ice Machines Commercial Refrigerators Water Filtration Food Service Parts	**323-388**
AIR CONDITIONING EQUIPMENT	**ARCOAIRE - THERMAL ZONE - DAIKIN - SEA BREEZE - NATIONAL COMFORT** Split Systems Furnaces Ductless Splits Residential/Commercial Packaged Room A/C	**389-476**
AIR QUALITY & DISTRIBUTION	**HART & COOLEY - HONEYWELL HOME - LAU - BROWNING - APRILAIRE** Registers & Grills Sheet Metal Power Transmission Air Cleaners Humidifiers Air Filters	**477-596**
HEATING EQUIPMENT	**REZNOR - VELOCITY - RUUD** Duct Furnaces Unit Heaters Water Heaters Heat Recovery	**597-612**
HEATING ACCESSORIES	**FIELD CONTROLS - BECKETT - WATTS - WEBSTONE - B & G - HONEYWELL HOME** Venting System Chimney Liner Oil Burner Nozzles Flex Gas Connectors Hydronic Specialties	**613-642**
TUBE, INSULATION, FITTINGS	**J/B - MUELLER - IRP - RLS - JOHN GUEST - SB1 - PORTALS PLUS** Copper Tubing Insulation Copper, Brass, PVC, Pneumatic Fittings Channel Fittings & Clamps	**643-736**
CONTROLS & ELECTRICAL ACCESSORIES	**EMERSON - HONEYWELL - ROBERTSHAW - JCI - PARAGON - SUPCO - BELIMO** Thermostats Temperature/Pressure Heating Commercial Building Pneumatic Electric	**737-946**
SUPERMARKET ELECTRONIC CONTROLS	**SPORLAN - PARKER - EMERSON - DANFOSS - CAREL - KE2 - HUSSMANN** System Controllers Electronic Expansion Valves Sensors	**947-968**
TOOLS & SERVICE	**FLUKE - FIELDPIECE - UEI - SUPCO - CPS - NRP - KLEIN - J/B - YELLOW JACKET - TESTO** Instruments Reclaim, Charging Hand Tools Brazing Solder, Flux Hardware Service	**969-1144**
CHEMICALS & SOLVENTS	**NATIONAL CHEMICALS - NU-CALGON - NRP - LOCTITE - RECTORSEAL** Coil Cleaners Boiler Treatments Sprayers Oil, Heating Treatments Thread Sealants Silicone	**1145-1176**
APPLICATION & ENGINEERING DATA	Books & Software Conversion Tables AWEF Factors Line Sizing Walk-In Selection Guide	**1177-1182**
BRANCH LOCATIONS INDEX		**1183-1194** **1195-1244**

United Refrigeration provides you with as many choices in refrigeration equipment as available in this industry (pages 235-300). Our commitment is to present the widest range of Indoor and Outdoor Condensing Units available, in virtually any voltage with numerous options. Add to that, a selection of evaporators designed to meet your needs, from the smallest reach-in to the largest warehouse. You can choose from conventional or "state of the art" models, various fin spacings, materials of construction and coatings, to operate with a range of refrigerants including HFC's, HFO's, Glycols and CO2. Available in 120V, 208-230V, 380V, 460V & 575 Volt, both 60 and 50 Hz.

We also offer air cooled condensers in a wide range of sizes with optional fin spacings, aluminum, copper, or coated fins, motor speeds and controls.

Specialty products, air handlers, fluid coolers and heat transfer coils complement our standard product offering.

At United Refrigeration, our commitment is to meet your needs and exceed your expectations.

For help in making your selections, please feel free to call us through our Customer Service Center at 888-578-9100 and we'll be glad to have one of our refrigeration experts assist you.







Refrigeration **Page**
- Skeleton Motor....2
- Unit Bearing/Watt Motor....2-5
- ECM Refrigeration Motor....6-10

Refrigeration, 3 3/8" Diameter
- Refrigeration Fan Duty....11-12

Refrigeration, 4" Diameter
- Refrigeration....13
- Booster Fan....13

HVAC, 3 3/8" Diameter
- Blower Assembly....14
- General Purpose Fan Duty Motor....14-15

HVAC, 4 5/16" Diameter
- Exhaust Fan....16
- Fan Coil....16

HVAC, 5" Diameter
- Blower Duty....17
- Fan Coil....17-18
- Condenser Fan Motor....19

HVAC, 5 5/8" Diameter
- Unit Heater Duty....20
- HVAC Blower Duty....20-23
- HVAC Blower Duty ECM....24-27
- Room A/C and Fan Coil Duty....27-28
- Condenser Fan Duty....28-35

HVAC, 6 1/2" Diameter **Page**
- Condenser Fan Duty....36-39
- Condenser Fan Duty ECM....39

Definite Purpose
- Oil Burner....40
- Pump Motor....40-41

Special Application
- Evaporative Cooler....42
- Exhaust Ventilator....42

Belt Drive General Purpose
- Fractional Split Phase....43-44
- Capacitor Start....44-45
- 3 Phase....45-47
- Integral Heavy Duty 3 Phase....47-48

Accessories
- Motor Accessories....49-51

OEM Factory Motors
- OEM Factory Replacement Motors....52-55

SKELETON MOTOR



MK18002

SKELETON MOTOR

Features

- Fits standard units, Bohn; replaces Uppco & GE33 series
- Reversible
- Kits include adapters and hardware

Applications

- Evaporator fans
- Bathroom exhaust fans
- Range hood exhaust fans
- Heater fans

MK18003, MK18004 shafts adapt to 3/16", 1/4", 5/16" or hubless

IRP International Refrigeration Products

Part No.	Replaces	HP	Voltage	RPM	No. of Speeds	Wgt (Lbs.)
MK18002	Acme 700, GEM EM670	1/100	115	3000	1	1.80
MK18001	Acme 700, GEM EM670	1/100	115	3000	1	1.43
MK18003	Acme 750	1/50	115	3000	1	1.85
MK18004	Acme 7502	1/45	115/208-240	3000	1	2.35



65670

SKELETON MOTOR

Features

- Mechanically reversible

Applications

- Evaporator fans
- Bathroom exhaust fans
- Range hood exhaust fans
- Heater fans

Packard

								Shaft (In.)		
Part No.	**Replaces**	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Dia.**	**L**	**Wgt (Lbs.)**
65670	EM670	Stack	120	3000	1	0.40	CWSE	3/16	1.38	4.00
65690[1]	EM690	Stack	120	3000	1	0.50	CWSE	3/16	1.50	4.00

[1] Kit includes only one fan blade

UNIT BEARING/WATT MOTOR



NRP5111

2 WATT - 16 WATT, CAST IRON CONSTRUCTION

Features

- 51 Frame. 3 1/2" diameter
- Thermal overload protection
- 1/4" threaded shaft
- Shaded pole, air over
- Rear hub or base mount

Applications

- Refrigerators
- Freezers
- Display Cases
- Walk Ins

NRP NATIONAL REFRIGERATION PRODUCTS

							Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Dia.**	**L**	**Wgt (Lbs.)**
NRP5111*	2.5W	115	1550	0.24	CWOSE	1	1/4-20 Thd.	0.50	2.00
NRP5211*	4W	115	1550	0.35	CWOSE	1	1/4-20 Thd.	0.50	2.20
NRP5221*	4W	208-230	1550	0.20	CWOSE	1	1/4-20 Thd.	0.50	2.30
NRP5222*	4W	208-230	1550	0.20	CCWOSE	1	1/4-20 Thd.	0.50	2.30
NRP5312*	6W	115	1550	0.50	CCWOSE	1	1/4-20 Thd.	0.50	3.30
NRP5311*	6W	115	1550	0.50	CWOSE	1	1/4-20 Thd.	0.50	3.30
NRP5411*	9W	115	1550	0.62	CWOSE	1	1/4-20 Thd.	0.50	3.30
NRP5412*	9W	115	1550	0.62	CCWOSE	1	1/4-20 Thd.	0.50	3.30
NRP5421*	9W	208-230	1550	0.33	CWOSE	1	1/4-20 Thd.	0.50	3.20
NRP5422*	9W	208-230	1550	0.33	CCWOSE	1	1/4-20 Thd.	0.50	3.10

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
NRP5811*	16W	115	1550	1.10	CWOSE	1	1/4-20 Thd.	0.50	3.80
NRP5812*	16W	115	1550	1.10	CCWOSE	1	1/4-20 Thd.	0.50	4.00
NRP5821*	16W	208-230	1550	0.60	CWOSE	1	1/4-20 Thd.	0.50	4.00
NRP5822*	16W	208-230	1550	0.60	CCWOSE	1	1/4-20 Thd.	0.50	4.00



UB592

5 WATT - 9 WATT

Features

- 51 Frame. 3 1/2" diameter
- Cast iron or Aluminum construction
- Thermal overload protection
- 1/4" threaded shaft
- Shaded pole, air over
- Rear hub or base mount

Applications

- Refrigerators
- Freezers
- Display Cases
- Walk Ins

FASCO

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
UB592[1]	5W	115	1550	0.34	CWOSE	1	1/4-20 Thd.	0.50	2.00
UB560[2]	6W	115	1550	0.18	CWOSE	1	1/4-20 Thd.	0.50	2.00
UB594[1]	6W	115	1550	0.36	CWOSE	1	1/4-20 Thd.	0.50	3.00
UB597[1]	9W	115	1550	0.53	CWOSE	1	1/4-20 Thd.	0.50	3.00
UB562[2]	9W	115	1550	0.53	CWOSE	1	1/4-20 Thd.	0.50	2.20

[1] Cast Iron construction [2] Aluminum construction



10037

5 WATT - 9 WATT

Features

- Single speed
- Thermal protection
- Rear hub or base mount
- Mounting hardware
- Shaded pole, air over
- 65413, 10037 aluminum construction, 10009 cast iron

Applications

- Condenser & evaporator fans for refrigerators, freezers, coolers, vending machines and other similar
- 10037: any 5 Watt application with space limitations

Additional Features FOR 10037:

- Extra short 2 3/8" body lenth (less shaft limitations)
- Direct replacement for Oasis 027354-026 and 027354-037
- Double mounting feet

Packard

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
10037	5W	115	1550	0.34	CWOSE	1	1/4-20 Thd.	0.50	2.00
65413	9W	115	1550	0.50	CWOSE	1	1/4-20 Thd.	0.50	2.40
10009	9W	115	1550	0.53	CWOSE	1	1/4-20 Thd.	0.50	2.00

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UNIT BEARING/WATT MOTOR



65119

5 WATT - 9 WATT, LYALL PLUG CAST IRON CONSTRUCTION

- Rotation determined by viewing opposite shaft end
- 1/4" threaded shaft
- Cast Iron
- Includes lyall plug
- Low temperature oil
- Shaded pole

Packard

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
65119[1]	5W	115	1550	0.34	CWOSE	1	1/4-20 Thd.	0.50	3.00
65018[2]	5W	115	1550	0.34	CWOSE	1	1/4-20 Thd.	0.50	3.75
65017[3]	9W	115	1550	0.55	CWOSE	1	1/4-20 Thd.	0.50	3.22

[1] Straight Lyall Plug [2] 90° Lyall Plug [3] 90 Deg. Lyall Plug



00114

4 WATT - 9 WATT, REVERSING - PSC

Features

- 3 1/2" diameter
- Single speed
- Cast iron construction
- Thermal protection
- Capacitor mounted inside the motor
- Includes 3-prong molded plug
- PSC - replaces models that reverse in the defrost cycle
- 1/4-20 threaded shaft
- Rear hub or base mount

Applications

- Condenser & evaporator fans for refrigerators, freezers, coolers, vending machines and other similar

							Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Capacitor	Wgt (Lbs.)
00114*[1]	4W	115	1550	0.20	CWOSE	1	1/4-20 Thd.	0.38	2µf, 370V	3.00
00117*[2]	9W	115	1550	0.26	CWOSE	1	1/4-20 Thd.	0.38	3µf, 370V	2.25

[1] Requires 2µf, 370V capacitor [2] Requires 3µf, 370V capacitor



NRP254V

35 WATT - 50 WATT

NRP 35 and 50 watt condenser fan motors replace GEI and 21 frame series motors as well as EMS manufactured motors designed for commercial refrigeration units, large air conditioning units, and high volume air applications.

- 3 7/8" diameter
- UL recognized, CSA certified

NRP NATIONAL REFRIGERATION PRODUCTS

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
NRP254V*	35W	115	1550	1.40	CWOSE	1	1/4	0.50	4.91
NRP256V*	35W	208-230	1550	0.70	CWOSE	1	1/4	0.50	5.04
NRP258V*	50W	115	1550	1.70	CWOSE	1	3/8	1.50	5.55
NRP259V*	50W	115	1550	1.70	CCWOSE	1	3/8	1.50	5.00
NRP260V*	50W	208-230	1550	0.85	CWOSE	1	3/8	1.50	7.00
NRP261V*	50W	208-230	1550	0.85	CCWOSE	1	3/8	1.50	7.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



UE250

25 WATT - 75 WATT

Features

- 3 7/8" diameter
- Single speed
- Cast iron construction
- High efficiency
- Unit bearing
- Manufactured by EM & S
- Shaded pole, air over
- Rotation viewed opposite shaft end

Applications

- OEM replacements for Copeland, Hill, Ice-O-Matic, Manitowoc, Scotsman, Tecumseh, and others.

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
UE250	25W	115	1500	1.10	CWOSE	1	1/4-20 Thd.	0.50	4.05
UE260	50W	208-230	1500	0.85	CWOSE	1	3/8	1.50	7.00
UE276	50W	208-230	1550	0.85	CCWLE	1	5/16	2.50	5.50
UE298	75W	208-230	1500	1.50	CWOSE	1	3/8	1.50	3.10



4W115

SQUARE WATT MOTOR

Features

- 3-1/4" Square Motor Body
- Motor Studs Mounts to Fan Guard
- Totally Enclosed, Air Over
- Sleeve Bearings

Applications

- OEM Refrigeration Condenser Fan
- Evaporator Fans

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Wgt (Lbs.)
4W115*	4W	115	1550	0.36	CCWSE	1	1.05
6W115*	6W	115	1550	0.40	CCWSE	1	1.20
6W230*	6W	208-230	1550	0.20	CCWSE	1	1.80
EC9W115*	9W	115	1550	0.58	CCWSE	1	1.80
9W115*	9W	115	1550	0.58	CCWSE	1	1.80
9W230*	9W	208-230	1550	0.35	CCWSE	1	2.00
16W115*	16W	115	1550	1.00	CCWSE	1	2.00
16W230*	16W	208-230	1550	0.50	CCWSE	1	2.00
35W115*	35W	115	1550	1.60	CCWSE	1	2.00
35W230*	35W	208-230	1550	0.80	CCWSE	1	3.00



6W115OES

SQUARE WATT MOTOR

Features

- 3-1/4" Square Motor Body
- Motor Studs Mounts to Fan Guard
- Totally Enclosed, Air Over
- Sleeve Bearings

Applications

- OEM Refrigeration Condenser Fan
- Evaporator Fans

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Wgt (Lbs.)
6W115OES	6W	115	1550	0.38	CCWSE	1	2.60
9W115OES	9W	115	1550	0.58	CCWSE	1	2.60
16W115OES	16W	115	1550	1.00	CCWSE	1	3.60

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ECM REFRIGERATION MOTOR



5412ECM

ECM, LIFE-SAVER

- Suitable for Evaporator and Condenser Applications
- IP67 Submersible in water for up to 30 minutes
- Two-Pronged Lyall plug
- Electronically Commutated Motor for high efficiency
- Multi-Mount Capacities

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
5412ECM	4W-25W	115-230	1550-1725	0.1-0.56	CCWOSE	1	1/4-20 Thd.	0.38	2.00
5411ECM	4W-25W	115-230	1550-1725	0.1-0.56	CWOSE	1	1/4-20 Thd.	0.38	2.00



EC5411E

ECM, RESCUE®

Features

- Up to 65% Efficiency
- Lyall plug
- -40°F to 130°F temperature rating
- IP66 Water Protection
- Single Pin and 4 Pin Fan Hubs included
- Double Mounting Feet
- 3 and 4 Hole Mounting Patterns on Hub End Applications

Evaporator and condenser fans

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
EC5411E	4W-25W	115-230	1550-1725	0.22-0.75/0.15-0.45	CWOSE	1	1/4-20 Thd.	0.38	2.00
EC5412E	4W-25W	115-230	1550-1725	0.22-0.75/0.15-0.45	CCWOSE	1	1/4-20 Thd.	0.38	2.00
EC5414E	4W-25W	115-230	1650/1550	0.22-0.75/0.15-0.45	CWOSE REV	2	1/4-20 Thd.	0.38	2.00



12ECM1153X

ECM, 3.3"

Features

- ECM High Efficiency
- Multi-Hp 1/15-1/25
- 115-230 voltage
- Reversing Plug
- 2-Speed, 1550/800 RPM
- Lyall plug connection

Applications

- 3.3" Commerical
- Refrigeration
- Walk in coolers and freezers

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
12ECM1153X	1/15-1/25	115/230	1550/800	1.3/0.65	REV	2	5/16	1.75	4.25


MD5411S

ECM, KRYO™ FORTRESS

The KRYO™ FORTRESS motor's innovative design locks out dust, withstands high pressure water from any direction and water submersion for up to 30 minutes, giving it a remarkable IP66 and IP67 rating. Wet, dry, or submerged, whatever happens – the KRYO FORTRESS motor keeps its cool under any conditions.

The versatility and performance of the KRYO FORTRESS motor make it an ideal retrofit or replacement motor for OEMs, or for other ECM or shaded pole unit bearing motors in commercial refrigeration evaporator units.

Features

- Multiple standard mounting options
- Standard rear 3-hole and 4-hole mounting
- Allowable voltage range: 90-240 VAC
- Two-sided mounting feet
- Reverse rotation with one wire connection
- High efficiency ECM motors provide 41% greater efficiency over traditional shaded pole motors
- Aluminum body
- Can operate in temperatures between -40°C and 55°C

Applications

- Evaporator and condenser fans

genteq

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
MD5411S	4W-20W	90-240	1550	0.55-0.30	REV	1	1/4-20 Thd.	0.38	4.00


UE9207F2

ECM, UNIT BEARING

Features

- Rain shield
- Lyall plug
- Exceeds 60% efficiency
- Low temperature oil

Additional Features for UE9207F2:

- Both mounting 'feet' are drilled and tapped
- Rear hub is drilled for the standard 3 bolt mount and the 4 bolt Hussman mount

Applications

- Supermarket case evaporator fans

Century

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
UE9207F2	6W-12W	115	1550	0.20-0.30	CWOSE	1	1/4-20 Thd.	0.42	2.60
UE9208	14W-16W	115	1550	0.47-0.58	CWOSE	1	1/4-20 Thd.	0.42	2.77


00852

ECM, HIGH EFFICIENCY

Features

- Life expectancy of 60,000+ hours
- Protection rating - IP65 moisture protection grade
- Totally enclosed
- All angle
- Continous air over
- Long life sealed ball bearings
- M4 studs on 3.72" BC for shroud/guard

ELCO

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	L	Capacitor	Wgt (Lbs.)
00852*	15W	115	1600	0.22	CCWSE	1	0.60	ECM	3.00


00852OES

ECM, HIGH EFFICIENCY

Features

- Life expectancy of 60,000+ hours
- Protection rating - IP65 moisture protection grade
- Totally enclosed
- All angle
- Continous air over
- Long life sealed ball bearings
- M4 studs on 3.72" BC for shroud/guard

IRP International Refrigeration Products

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Capacitor	Wgt (Lbs.)
00852OES*	15W	115	1600	0.22	CCWSE	1	ECM	3.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ECM REFRIGERATION MOTOR



EC416CW115

ECM

Features
- Multi mount
- Class B5 insulated
- Soft starting
- Lyall plug
- Lower heat
- Limited voltage fluctuation
- Directional sensor
- Moisture protestion - IP65
- Operating range: -40 to 130°F

Applications

Evaporator and condenser fans

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
EC416CW115	4W-16W	115	1550	0.16/0.42	CWOSE	1	1/4-20 Thd.	0.25	3.20



05205

ARKTIC 59 3.3", ECM

Features
- 3 3/8" diameter
- Electronically Commutated Motor
- Mounting Studs on Both Ends
- Totally Enclosed - Air Over
- 50/60 Cycle Rated

Applications
- Evaporator fan motors used in Walk-In and Reach-in refrigerators and freezers
- Retrofit motor for 3.3" diameter evaporator motors

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
05205*	1/15	208-230	1550	1	0.63	CCWOSE	3.36	1/8	2.61	4.00



EC5408E

RESCUE® ECM WALK-IN EVAPORATOR MOTORS

Features
- With Bolt Circle that match 3.3" Diameter Motors
- Electronically Commutated Motor
- Totally Enclosed - Air Over
- High Efficiency up to 70%
- Dual Voltage: No Connection
- Low Profile
- Standard 10-32 Thread Mounting Studs
- Lyall/OEM Plug
- Rear stud mount adaptor kit 42 and 42T
- 90° Cable adaptor kit 40

Change Required
- 50/60 Cycle Rated

Applications
- Evaporator fan motors used in Walk-In and Reach-in refrigerators and freezers
- Retrofit motor for 3.3" diameter evaporator motors

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
EC5408E	1/15-1/25	115-230	1550/800	2	0.60-0.72/0.40-0.67	REV	3.33	5/16	3.07	3.00
EC5409E	1/15-1/25	115-230	1550/775	2	0.60-0.72/0.04-0.67	CCWOSE	3.33	1/4	0.43	3.00
EC5407E	1/15-1/25	115-230	1550-1650	1	0.61/0.72	CCWOSE	3.33	1/8	2.50	3.00



EBM9137

EBM PAPST

- 200 mm Fan Blade
- 2 Speed Programmable
- Exhaust over struts
- Any mounting position
- ESM wall ring
- Permissible ambient motor temp: -30 to 50°C
- To be used with Nano ESM programmer
- Requires a wire harness (EBM10637, EBM10847, or EBM10910)
- Risk of shock if the programmer is used while the fan is energized

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Wgt (Lbs.)
EBM9137[1]	31W	115	800-2100	0.24	CCWSE	2	0.40
EBM9538	31W	115	800-2100	0.46	CCWSE	2	0.40

[1] 5 Blades

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



EBM600003

EBM PROGRAMMER

- For use with EBM9137 and EBM9538
- Effortless programming of the two ESM selectable speeds
- Inserts directly into the fan's programming port
- Easy to read LCD display
- Battery operated
- No cables required
- Ideal for field use
- Note: Risk of shock if the programmer is used while the fan is energized.

ebmpapst

Part No.	Description	Wgt (Lbs.)
EBM600003	NANO ESM programmer for EBM-PAPST motors	0.08



EBM10637

HARNESS WITHOUT PLUG

Harness for EBM9137 and EBM9538 fan. Wire lead connection

ebmpapst

Part No.	Description	Wgt (Lbs.)
EBM10637	EBM HARNESS WITHOUT PLUG 3 WIRE	0.09



EBM10847

HILL PHOENIX HARNESS

Harness for EBM9137 and EBM9538 fan. Common to Hill Phoenix standard cases. Two pin right angle Lyle plug.

ebmpapst

Part No.	Description	Wgt (Lbs.)
EBM10847	HILL PHOENIX HARNESS FOR EBM FAN	0.06



EBM10910

KYSOR WARREN HARNESS

Harness for EBM9137 and EBM9538 fan. Three pin straight Lyle Plug for use in 2-speed applications. Common to Kysor Warren standard cases.

ebmpapst

Part No.	Description	Wgt (Lbs.)
EBM10910	KYSOR WARREN HARNESS FOR EBM FAN	0.07

ECM REFRIGERATION MOTOR


EBM0207

ECM UNIT COOLER FAN ASSEMBLY

EBM0210:

- Drop in Replacement for Heatcraft Shaded Pole and PSC Motors
- Integrated harness/plug
- Fully assembled & balanced
- Uses 30% less power than typical unit cooler fans with PSC motors
- Specifically designed for unit cooler applications
- Is equipped with a very efficient electronically commuted, permanent magnet motor
- Motor, blade, power cable and three mounting options are integrated and available as a single part number
- Is equally suited for both OEM and retrofit use
- RPM settable using 10-position rotary switch
- Mounting position: shaft horizontal

EBM0207:

- Drop in Replacement for Heatcraft Shaded Pole and PSC Motors
- Integrated harness/plug
- Fully assembled & balanced
- Uses 30% less power than typical unit cooler fans with PSC motors
- Specifically designed for unit cooler applications
- Is equipped with a very efficient electronically commuted, permanent magnet motor
- Motor, blade, power cable and three mounting options are integrated and available as a single part number
- Is equally suited for both OEM and retrofit use
- Plug & Play
- Mounting position: shaft horizontal

ebmpapst

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Wgt (Lbs.)
EBM0207	63W	100-240	1590	0.55	CWSE	1	3.80
EBM0210	70W	100-240	900-1650	0.50	CWSE	10	3.80


05471BOX

ECM FAN ASSEMBLY - KYRO FORTRESS

Primarily used in commercial refrigeration air moving applications demanding high efficiency and dependability. These motors are moisture resistant, reliable, quiet unit bearing design with efficiencies three times higher than shaded pole motors and 45% higher than PSC. These replacement ECM Fan/Motor systems are all metal in design and have 1 discrete speed, variable torque, low temperature lubrication system which makes them extremely quiet with low vibration.

Features

- Lyall Plug
- Class B Insulation
- 60 Hertz
- 10" mounting shroud
- Thermal Protection
- Single Phase
- -40 to 55°C ambient operating temp.
- Single Speed
- Maximum watts 36

genteq

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	CFM	Wgt (Lbs.)
05471BOX	20W	90-240	1450	0.55-0.30	CWOSE	1	390 @ 0.1	5.00
05470BOX	20W	90-240	1550	0.55-0.20	CWOSE	1	355 @ 0.1	5.00
05472BOX	20W	90-240	1550	0.55-0.30	CWOSE	1	415 @ 0.1	5.00


ECR921400

ECM MOTOR AND FAN KIT

- Replaces GE Fan Pack 5SME58AAF1031
- Includes: ECR92JA12 motor, IMS100059 10" mounting shroud, 8" 28 degree fan blade

Packard

Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	CFM	Wgt (Lbs.)
ECR921400	5W-16W	120	1800	0.34	CCWSE	1	315 @ 0.1	3.70

REFRIGERATION FAN DUTY



9721

OPEN VENTILATION

- 3-IN-1 (1/12-1/15-1/20HP) - Refrigeration Motor
- 3.3" Diameter
- Thermally Protected
- Open Air Over
- Class B Insulation, 40°C Ambient, 50/60 Hertz
- Ball Bearing
- 5/16" Diameter Flat Shaft
- 21" Leads
- Extended Studs Shaft End and Lead End, Belly Band Mount (Belly Band Not Included)

FASCO®

								Shaft (In.)			
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
9721 ◉	1/12-1/20	115/208-230	1550	1	1.10/0.50	REV	3.63	5/16	2.75	Furnished	5.00



12EM1123X

EVAPORATOR FAN MOTOR

Features

- All angle mounting: four studs on each end, bellyband mount
- Reversing plug
- 20" lead
- 3.3" frame
- Class B insulation
- Capacitor included
- Low temp (-40°F) lubrication system

Applications

- Evaporator fans
- Bathroom exhaust fans
- Range hood exhaust fans
- Heater fans

IRP International Refrigeration Products

								Shaft (In.)			
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
12EM1123X[1] ◉	1/12	115/208-230	1550	1	1.10/0.50	REV	3.63	5/16	2.75	Furnished	4.75
[1] Capacitor Included											



12ECM1153X

ECM, 3.3"

Features

- ECM High Efficiency
- Multi-Hp 1/15-1/25
- 115-230 voltage
- Reversing Plug
- 2-Speed, 1550/800 RPM
- Lyall plug connection

Applications

- 3.3" Commerical
- Refrigeration
- Walk in coolers and freezers

IRP International Refrigeration Products

							Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
12ECM1153X ◉	1/15-1/25	115/230	1550/800	1.3/0.65	REV	2	5/16	1.75	4.25

REFRIGERATION, 3 3/8" DIAMETER

REFRIGERATION FAN DUTY



D1101

OPEN VENTILATION

Features
- Shaded pole-single or PSC
- Open ventilation
- Air over-fan duty
- Low temperature oil
- Molded plugs to match OEM

Applications
- Evaporator fans
- OEM replacements for Bohn, Larkin, McQuay, Kramer

FASCO

								Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**Dia.**	**L**	**Wgt (Lbs.)**
D1101[1]	1/20	115	1500	1	1.90	CCWSE	2.75	5/16	2.25	3.00
D1124[2]	1/20	115	1550	1	2.10	CWSE	3.00	5/16	3.00	4.00
D1154	1/20	208-230	1550	1	1.00	CWSE	3.13	5/16	2.30	3.70
D1103[1]	1/20	208-230	1500	1	1.10	CCWSE	3.00	5/16	2.25	3.00
D1142	1/15	115/230	1550	1	1.70/0.90	CWSE	3.50	5/16	2.50	4.80
D1126[2]	1/15	208-230	1550	1	1.10	CWSE	3.50	5/16	3.00	4.00
D1125[3]	1/12	208-230	1550	1	0.50	CCWSE	3.75	5/16	2.64	3.60

[1] Heatcraft [2] Bohm [3] Bohm - PSC Capacitor Included



1EM1152XB

OPEN VENTILATION

Features
- Shaded poleor PSC
- Thermal protected
- Continuous duty
- UL/CSA approved
- 5/16" x 3" shaft
- 60 Hz (replaces Bohn 5008S & 5008T)
- Includes molded plug

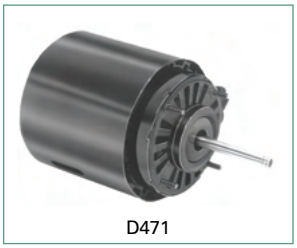
Applications
- Most low profile evaporators

IRP International Refrigeration Products

								Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**Dia.**	**L**	**Wgt (Lbs.)**
1EM1152XB[1]	1/15	115	1550	1	2.10	CWSE	2.88	5/16	3.00	5.00
2EM1152XB[1]	1/15	208-230	1550	1	1.10	CWSE	3.38	5/16	3.00	7.00

[1] Bohn Replacement

REFRIGERATION


D471

OPEN VENTILATION

Features
- Shaded pole-single speed
- 3.9" Diameter
- 1/2" studs for mounting
- Interchangeable with GE 11 Frame refrigeration motors
- Automatic Overload
- Thermally protected
- Rotation is determined by viewing the shaft end

Applications
- Commercial refrigeration
- Condenser fans
- Various fan

FASCO

								Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**Dia.**	**L**	**Weight (Lbs.)**
D471	1/20	208-230	1550	1	1.10	CCWSE	4.25	5/16	2.50	4.70
D671B ◎	1/15	115/208-230	1550	1	2.10/1.10	CCWSE	4.63	5/16	2.55	5.00

BOOSTER FAN


AF115SQ3

AXIAL

High performance thermal management solutions for electronic, industrial and commercial cooling applications
- Cabinet style axial fan
- Metal frame and impeller
- Class F insulation: 40 to 90°C operating range
- High temperature bearing lubricant
- Shaded pole, impedance protected motor

MECHATRONICS

Part No.	**CFM**	**Voltage**	**L**	**W**	**Thickness**	**Wgt (Lbs.)**
AF115SQ3 ◎	30	115	3.13	3.13	1 1/2	0.70
AF115SQ5 ◎	103	115	4.69	4.69	1 1/2	14.00
AF230SQ5 ◎	103	208-230	4.69	4.69	1 1/2	0.70



HVAC, 3 3/8" DIAMETER

BLOWER ASSEMBLY



B23618

SHADED POLE

Features

- Shaded pole-single speed
- Complete assemblies
- Matches OEM models
- Self cooling

Applications

- Furnace draft inducers
- B23618 - use on Franklin
- Replaces - 031-7059; 7021-10289; 7021-5932

FASCO

							Shaft (In.)	
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Dia.**	**Wgt (Lbs.)**
B23618	1/50	115/208-230	3000	0.90/0.40	CCWSE	1	1/4	5.00

GENERAL PURPOSE FAN DUTY MOTOR



D120

OPEN VENTILATION

Features

- Shaded pole-single & PSC
- Air over-fan duty
- Thermal protection
- Continuous duty

Applications

- Evaporator fans
- Bathroom exhaust fans
- Range hood exhaust fans
- Blowers with air over

FASCO

								Shaft (In.)			
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**Dia.**	**L**	**Capacitor**	**Wgt (Lbs.)**
D120	1/70	115	1500	1	0.70	CWSE	2.00	1/4	2.30	Shaded Pole	2.00
D126	1/40	115	1500	1	1.10	CWSE	2.25	5/16	2.30	Shaded Pole	3.00
D514	1/30	115	1500	1	1.30	CWSE	2.63	5/16	2.30	Shaded Pole	3.40
D206	1/30	115	3000	1	1.20	CWSE	3.38	1/4	2.32	Shaded Pole	2.70
D0030	1/25	115	1550	1	1.60	CWSE	2.63	5/16	2.55	Shaded Pole	3.60
D132	1/20	115	1500	1	1.80	CWSE	2.63	5/16	2.30	Shaded Pole	3.15
D133	1/20	115	1500	1	1.80	CCWSE	2.63	5/16	2.30	Shaded Pole	3.05
D188	1/20	208-230	1500	1	0.90	CWSE	2.63	5/16	2.30	Shaded Pole	1.10
D189	1/20	208-230	1500	1	0.90	CCWSE	2.63	5/16	2.30	Shaded Pole	1.00
D0396	1/20	208-230	1450	1	1.10	CWSE	3.25	5/16	2.66	Shaded Pole	4.00
D503[1]	1/10	208-230	1500	1	0.95	REV	4.63	5/16	3.87	4µf, 370V	5.90

[1] PSC Cap Furnished



D122

TOTALLY ENCLOSED AIR OVER

- OEM Direct Replacement Motor
- 3.3" Diameter
- Shaded Pole
- Thermally Protected
- Totally Enclosed Air Over
- Class B Insulation, 40°C Ambient
- Sleeve Bearing
- 5/16" Diameter Shaft with Flat
- 7" Leads with Molded Plug
- Exented Studs Shaft End and Lead End, Hex Mounting Hubs Shaft End and Lead End

FASCO

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
D122	1/80	115	1500	1	0.60	CW	2.13	1/4	2.30	2.50
D123	1/80	115	1500	1	0.60	CCW	2.13	1/4	2.30	2.25
D124	1/50	115	1500	1	0.75	CW	2.25	1/4	2.30	3.00



9721

OPEN VENTILATION

- 3-IN-1 (1/12-1/15-1/20HP) - Refrigeration Motor
- 3.3" Diameter
- Thermally Protected
- Open Air Over
- Class B Insulation, 40°C Ambient, 50/60 Hertz
- Ball Bearing
- 5/16" Diameter Flat Shaft
- 21" Leads
- Extended Studs Shaft End and Lead End, Belly Band Mount (Belly Band Not Included)

FASCO

								Shaft (In.)			
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
9721 ◎	1/12-1/20	115/208-230	1550	1	1.10/0.50	REV	3.63	5/16	2.75	Furnished	5.00



12EM1123X

EVAPORATOR FAN MOTOR

Features

- All angle mounting: four studs on each end, bellyband mount
- Reversing plug
- 20" lead
- 3.3" frame
- Class B insulation
- Capacitor included
- Low temp (-40°F) lubrication system

Applications

- Evaporator fans
- Bathroom exhaust fans
- Range hood exhaust fans
- Heater fans

IRP International Refrigeration Products

								Shaft (In.)			
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
12EM1123X[1] ◎	1/12	115/208-230	1550	1	1.10/0.50	REV	3.63	5/16	2.75	Furnished	4.75

[1] Capacitor Included

HVAC, 4 5/16" DIAMETER

EXHAUST FAN



D116

OPEN VENTILATION 4.4"

Features

- Shaded pole-single & multi speed
- Open ventilation
- Continuous duty
- Thermal protection

Applications

- General purpose fans
- Ventilators
- Unit heaters

FASCO

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
D116	1/15	115	1550	1	2.40	CWSE	3.51	3/8	2.45	5.00
D312[1]	1/15	115	1500	1	2.60	CWSE	4.25	1/2	5.00	7.00
D119 ◉	1/11-1/30	115	1500	3	2.90-1.00	CCWSE	3.38	1/2	2.60	6.15
D374	1/8-1/20	115	1500	2	4.00-2.50	CWSE	3.63	3/8	2.20	7.00

[1] Internally fan cooled



D114

TOTALLY ENCLOSED AIR OVER

Features

- Shaded pole, single speed
- Totally enclosed air over
- Continuous duty
- Thermal protection

Applications

- General purpose fans
- Ventilators
- Unit heaters

FASCO

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
D114	1/12	115-230	1550	1	2.50/1.30	CWSE	4.13	3/8	3.00	8.60
D113-FASCO	1/12	115-230	1550	1	2.50/1.30	CCWSE	4.13	3/8	3.00	9.00

FAN COIL



D336

OPEN VENTILATION

Features

- Shaded pole-multi speed
- Open ventilation
- Double shaft
- Cushion rings for base mount
- Thermal protection

Applications

- Fan coil units
- Double blowers
- Thru the wall units

FASCO

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
D336	1/10	115	1550	3	3.50	DS	3.50	3/8	7.50	8.00
D337	1/8	115	1550	4	4.10	DS	3.63	1/2	7.50	9.00
D338	1/6	115	1550	4	5.40	DS	4.13	1/2	7.25	10.00

BLOWER DUTY


UE599

SHADED POLE

Features
- Single & multi speed
- Open ventilation
- Continuous duty
- Thermal protection

Applications
- Furnace blowers
- OEM replacements for many different mobile home furnace manufacturers

								Shaft (In.)	
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.
UE599	1/10-1/20-1/30	115	1550	3	3.00	CCWSE	3.75	2.65	1/2
BL6412	1/6	115	1050	1	5.50	CCWLE	3.88	3.63	1/2
BL6420	1/5-1/9	115	1050	2	5.60	CCWLE	3.88	4.38	1/2
BL6414	1/5-1/8-1/10	115	1050	3	6.50	CCWLE	3.88	5.50	1/2
B6415	1/5-1/8-1/10	208-230	1050	3	3.20	CCWLE	3.88	5.50	1/2


BL6519

PSC

Features
- Single & multi speed
- Continuous duty
- Thermal protection

Applications
- Furnace blowers

								Shaft (In.)	
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.
BL6519	1/4	115	1075	3	4.70	REV	4.13	4.50	1/2
BL6530	1/3	115	1075	3	6.30	REV	4.13	4.63	1/2

FAN COIL


D291

PSC, 5" DIAMETER

Features
- Multi speed
- Open ventilation
- Double shaft
- Continuous duty
- Thermal protection
- Capacitor furnished

Applications
- Fan coil units
- Double blowers
- Thru the wall units

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.	L
D291[1]	1/10	115	1050	4	2.20	DS	3.25	10.75	1/2	10.75
D290[2]	1/10	115	1050	4	2.20	REV	3.25	8.50	1/2	N/A
D354	1/6	115	1050	3	2.80	DS	3.88	8.50	1/2	8.50

[1] Base included [2] Single Shaft

HVAC, 5" DIAMETER

FAN COIL



DBL6409

PSC, 5" DIAMETER

Features
- Multi speed
- Open ventilation
- Double shaft
- Continuous duty
- Thermal protection

Applications
- Fan coil units
- Double blowers
- Thru the wall units

								Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**L**	**Dia.**	**L**
DBL6409	1/10	115	1050	5	1.60	DS	4.75	10.31	1/2	10.31
UE89PSC ◉	1/10	115	1050	5	1.62	DS	3.56	10.70	1/2	10.70
DBL6501[1]	1/10	115	1075	4	1.70	DS	3.38	10.25	1/2	10.25
DBL4404	1/10	115	1550	3	3.50	DS	4.06	9.31	1/2	9.31
UE9476A	1/6	115	1625	4	2.20	DS	4.50	8.75	1/2	8.75

[1] Base included, 3 1/2" shaft height



1257E

PSC, 5" DIAMETER

Features
- Multi speed
- Open ventilation
- Double shaft
- Continuous duty
- Thermal protection
- Capacitor furnished

Applications
- Fan coil units
- Double blowers
- Thru the wall units

								Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**No. of Speeds**	**Amps**	**Rotation**	**Case L (In.)**	**L**	**Dia.**	**L**
1257E	1/6	115	1450	3	2.50	DS	4.25	8.25	1/2	8.25



CONDENSER FAN MOTOR



UE9722

PSC, MULTI-FIT, MULTI-HP

Why stock dozens of 42-frame motors, when two MultiFit™ Motors are all you need. The combination of A.O. Smith's exclusive Multi Mounting System™ and 3-in-1™ multi-horsepower design will save the busy HVAC contractor valuable time and money, while adding versatility to your replacement motor inventory. The Multi Mounting System™ will replace all the common 42-frame bolt circle patterns in the HVAC market (4.42 AOS/Westinghouse/ Emerson;4.62 GE/Fasco/Universal Electric; 4.33 Emerson Clam Shell/GE Cap-Can).

Features:

- 60 Degree/70 Degree Ambient
- PSC-single speed
- TEAO
- Replaces many 42 frame motors
- Continuous duty
- Thermal protection
- Electrically reversible
- 42 to 48Y frame BC adapter bracket UE2118 available

								Shaft (In.)	
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.
UE9722	1/8-1/10-1/12	208-230	1075	1	0.90	REV	4.00	3.00	1/2
UE9723	1/4-1/5-1/6	208-230	1075	1	2.00	REV	4.50	3.00	1/2
UE9724	1/4-1/5-1/6	208-230	1625	1	1.60	REV	4.50	3.00	1/2



2249E

PSC

Features

- PSC
- Ball bearing
- "Clam-Shell" design
- Condenser fans, vertical shaft down
- 2246E - 5 MFD Capacitor required
- 2250E - 7.5 MFD Capacitor required
- 2249E - 5 MFD Capacitor required

								Shaft (In.)	
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.
2249E	1/8	208-230	1075	1	0.90	REV	4.10	2.70	1/2
2246E	1/5	208-230	1075	1	1.60	REV	3.81	2.70	1/2
2250E	1/4	208-230	1075	1	1.70	REV	4.13	2.70	1/2



RF6402

SHADED POLE

Features

- Shaded pole-single speed
- Open ventilation
- Replaces GE 21 & 29 frame
- Continuous duty
- Thermal protection
- Mechanically reversible
- Mounting rings included
- Base included for RF* series

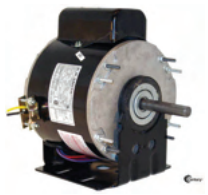
Applications

- Commercial refrigeration
- Condenser fans
- Unit heaters
- Space heaters

								Shaft (In.)	
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	L	Dia.
RF6402	1/10	115/208-230	1050	1	4.00/2.00	CWSE	4.75	3.25	3/8
RF4400	1/10	115/208-230	1550	1	4.00/2.00	CWSE	4.75	3.25	3/8
RF4401	1/10	115/208-230	1550	1	4.00/2.00	CCWSE	4.75	3.25	3/8

HVAC, 5 5/8" DIAMETER

UNIT HEATER DUTY



UH1016

PSC

Features

- Single speed
- Most models include base
- Extended thru bolts
- Thermal protection

Applications

- Unit heaters
- Fans for farm buildings
- Ventilators for greenhouses

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
UH1016[1]	1/6	115	1075	2.20	REV	1	4.25	4.80	1/2	3.28	5µf, 370V	15.00
UH1026V1[1]	1/4	115	1075	4.90	REV	1	4.38	4.92	1/2	5.50	5µf, 370V	13.00
UH1036	1/3	115	1075	5.30	REV	1	4.63	5.17	1/2	2.50	5µf, 370V	16.00

[1] Includes Base

HVAC BLOWER DUTY



1BM146B

PSC, OPEN VENTILATION

Features

- Open ventilation
- Reversible
- Economy model
- Thermal protection

Applications

- Furnace blowers
- Air handlers

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
1BM146B	1/4	115	1075	3.50	REV	3	4.70	1/2	5.00	7.5µf, 440V	11.95
2BM146B	1/4	208-230	1075	1.50	REV	3	4.70	1/2	5.00	7.5µf, 440V	11.25
1BM136B	1/3	115	1075	5.20	REV	3	4.30	1/2	5.00	7.5µf, 370V	13.00
2BM136B	1/3	208-230	1075	2.40	REV	3	4.30	1/2	5.00	5µf, 370V	13.00
1BM126B	1/2	115	1075	6.00	REV	3	5.40	1/2	5.00	10µf, 370V	15.00
2BM126B	1/2	208-230	1075	3.00	REV	3	5.30	1/2	5.00	7.5µf, 370V	18.00
1BM346B	3/4	115	1075	9.00	REV	3	5.40	1/2	5.00	15µf, 370V	15.00
2BM346B	3/4	208-230	1075	4.40	REV	3	5.40	1/2	5.00	10µf, 370V	18.00



1863E

PSC, OPEN VENTILATION

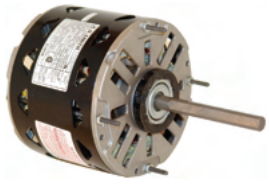
Features

- Extended studs for mounting flexibility on most motors
- 2.5" diameter hub rings included
- 24" leads with 5" long shafts with flat

Applications

- Residental and commercial
- Air handlers
- Furnace blowers

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
1863E	1/4	115	1075	3.50	REV	3	4.30	4.90	1/2	5.00	5µf, 370V	12.00
1971E	1/4	208-230	1075	1.50	REV	3	4.30	4.90	1/2	5.00	5µf, 370V	11.00
1864E	1/3	115	1075	5.00	REV	3	4.60	5.10	1/2	5.00	7.5µf, 370V	14.00
1972E	1/3	208-230	1075	1.90	REV	3	4.30	4.90	1/2	5.00	5µf, 370V	13.00
1865E	1/2	115	1075	6.50	REV	3	5.40	6.00	1/2	5.00	10µf, 370V	19.00
1973E	1/2	208-230	1075	2.90	REV	3	5.30	5.90	1/2	5.00	7.5µf, 370V	19.00
8904E	3/4	115	1075	9.50	REV	3	5.40	6.00	1/2	4.00	15µf, 370V	19.00
8905E	3/4	208-230	1075	4.00	REV	3	5.40	6.00	1/2	4.00	10µf, 370V	19.00
8906E	1	115	1075	12.10	REV	3	6.10	6.60	1/2	5.00	20µf, 370V	22.00
8907E	1	208-230	1075	5.60	REV	3	6.10	6.00	1/2	5.00	20µf, 370V	22.00



DL1026

PSC, STANDARD EFFICIENCY

Features

- Auto Protector
- Class "B" Insulation
- Continuous Air Over
- Open Construction
- Ring adapters
- Standard Efficiency
- 2-1/4" Rings with 2-1/2" Adapters
- 26" Leads
- 60 HZ only

Applications

- Furnace blowers
- Air Handlers

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
DL1026	1/4	115	1075	3.50	REV	3	4.06	4.63	1/2	4.50	5µf, 370V	12.00
D1026	1/4	208-230	1075	1.80	REV	3	4.06	4.63	1/2	4.50	5µf, 370V	12.00
DL1036	1/3	115	1075	4.90	REV	3	4.50	5.00	1/2	4.50	7.5µf, 370V	14.00
D1036	1/3	208-230	1075	2.60	REV	3	4.31	4.88	1/2	4.50	5µf, 370V	13.00
DL1056	1/2	115	1075	6.50	REV	3	5.00	5.50	1/2	4.50	10µf, 370V	16.00
D1056	1/2	208-230	1075	3.20	REV	3	4.81	5.38	1/2	4.50	7.5µf, 370V	16.00
DL1076	3/4	115	1075	8.90	REV	3	5.63	6.19	1/2	4.50	15µf, 370V	19.00
D1076	3/4	208-230	1075	4.00	REV	3	5.63	6.19	1/2	4.50	10µf, 370V	19.00
BDL1106	1	115	1075	12.30	REV	3	5.82	6.38	1/2	6.44	20µf, 370V	21.00
BD1106[1]	1	208-230	1075	5.10	REV	3	5.57	6.06	1/2	6.50	20µf, 370V	20.12
BDH1106	1	460	1075	3.20	REV	3	6.00	6.50	1/2	4.50	15µf, 370V	21.00

[1] Resilient rings and 4 split rings included

HVAC, 5 5/8" DIAMETER

HVAC BLOWER DUTY



X037

OPEN VENTILATION

Features
- 460V, single phase, PSC
- Multi-speed capability
- Weather resistant reversing plug
- Ball bearing
- Resilient rings available, not included (use part no. KIT110)

Applications

Commercial furnaces, air conditioners, exhaust fans, handling equipment installed in clean and dry environments.

LEESON

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
X037 ◎	1/3	460	1075	1.00	REV	2	4.75	1/2	6.00	7.5µf, 370V	13.95
X038 ◎	1/2	460	1075	1.60	REV	2	5.25	1/2	6.00	10µf, 370V	16.20
X039 ◎	3/4	460	1075	2.10	REV	2	5.50	1/2	6.00	15µf, 370V	17.65



D721

OPEN VENTILATION

Features
- PSC-single & multi speed
- Open ventilation
- Resilient mount rings included
- Continuous duty
- Thermal protection

Applications
- Furnace blowers
- Air handlers

FASCO

								Shaft (In.)				
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	L	Capacitor	Wgt (Lbs.)
D721	1/4	115	1075	4.80	REV	3	4.00	1/2	6.00	5.94	5µf, 370V	15.00
D725	1/4	208-230	1075	2.20	REV	3	4.00	1/2	6.00	5.94	5µf, 370V	15.00
D727	1/3	115	1075	5.90	REV	3	4.25	1/2	6.00	5.94	5µf, 370V	14.00
D923	1/3	208-230	1075	2.90	REV	3	4.25	1/2	6.00	5.94	5µf, 370V	13.00
D701	1/2	115	1075	7.70	REV	4	5.25	1/2	5.50	5.43	10µf, 370V	20.00
D703	1/2	208-230	1075	4.00	REV	3	5.50	1/2	6.00	5.94	7.5µf, 370V	17.00
D728 ◎	3/4	115	1075	10.50	REV	3	5.50	1/2	6.00	5.75	10µf, 370V	20.50
D729	3/4	208-230	1075	5.40	REV	3	5.50	1/2	6.00	6.00	10µf, 370V	21.00



7FD1016

OPEN VENTILATION

Features
- Auto Protector
- Continuous Air Over
- Open Construction
- Sleeve bearing
- PSC
- High Efficiency

- 1/2" Diameter, Flatted Shaft
- 50°C Ambient
- Multiple Mount
- Resilient Mounting

Applications
- Furnace blowers
- Air Handlers

Century

- Ring Included

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
7FD1016	1/6	277	1075	0.80	REV	3	3.75	4.32	1/2	6.00	5µf, 370V	10.00
7FD1026	1/4	277	1075	1.30	REV	3	3.88	4.44	1/2	6.44	5µf, 370V	11.00
7FD1036	1/3	277	1075	1.90	REV	3	4.50	5.06	1/2	6.44	7.5µf, 370V	14.00
7FD1056	1/2	277	1075	2.20	REV	3	5.38	5.94	1/2	6.44	10µf, 370V	18.00
9605A	3/4	277	1075	3.90	REV	3	5.50	6.00	1/2	5.50	20µf, 370V	18.00



1BMH126B

LIFESAVER SERIES, MULTI HP

Features

- 60°C ambient
- Extended mounting studs
- Designed for 370 VAC capacitors
- Class "B" insulation
- 36" leads
- High efficiency design
- Side shell mounting for Rheem units
- Open air over
- Thermal reset overload - automatic
- 2.5" diameter hub rings included

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
1BMH126B	1/2-1/6	115	1075	6.20	REV	4	5.00	1/2	5.00	7.5 to 10µF, 370V	15.00
1BMH346X	3/4-1/5	115	1075	8.10	REV	4	5.00	1/2	5.00	10 to 20µf, 370V	20.00
2BMH346X	3/4-1/5	208-230	1075	3.50	REV	4	5.00	1/2	5.00	10 to 20µf, 370V	20.00



5469E

RESCUE®, MULTI HP

Now you'll always have a motor when you need it. The RESCUE® motors replace a variety of different horsepower applications. RESCUE® will eliminate the need for temporary substitutions, long driving times in rural areas to get the right motor, or emergency openings in the evening. You may not know what kind of motor you will need, but with the RESCUE® motors on hand, you know you'll have one that will work. Replaces 1/2, 1/3, 1/4, 1/5, 1/6 HP motors.

Features

- 48 Frame, 5.6" Diameter
- PSC multi speed
- Mounts with thru-bolts, Rheem shell holes or belly band
- 36" leads
- Extended mounting studs
- 2.5" diameter hub rings included
- Reversible rotation
- All-position mount

Applications

- Furnace blowers
- Air handlers

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
5469E	1/3-1/8	208-230	825	2.40	REV	3	5.30	1/2	4.50	7.5µf, 370V	17.00
5460E	1/2-1/6	115	1075	7.30	REV	4	4.81	1/2	5.00	7.5 to 12.5µf, 370V	15.00
5461E	1/2-1/6	208-230	1075	3.60	REV	4	4.81	1/2	5.00	5 to 10µf, 370V	15.00
5470E	3/4-1/5	115	1075	8.10	REV	3	6.12	1/2	5.00	10-20µf, 370V	22.00
5471E	3/4-1/5	208-230	1075	4.10	REV	3	6.12	1/2	5.00	10-20µf, 370V	21.00



FD6002A

MASTERFIT® PRO, MULTI HP

Motor is approximately 10% stronger and has higher starting torque for 1/6, 1/5, 1/4, and 1/3 HP rating with the 7.5 mfd 370 Vac capacitor.

Features

- All Purpose Capacitor Included
- Energy Efficient
- 4 Speed
- 40°C Ambient
- Class B Insulation
- Open Drip proof
- Permanent Split Capacitor
- Reversible
- Resilient Rings
- Mounts by Belly Band, Thru Bolts or Shell Holes
- Extended Thru Bolts
- Rheem Mounting Holes in Shell

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
FD6002A	1/3-1/8	208-230	825	2.10	REV	4	4.75	1/2	3.50	14.00
FDL6001A	1/2-1/6	115	1075	7.00	REV	4	4.86	1/2	5.00	16.31
FD6000A	1/2-1/6	208-230	1075	3.90	REV	4	4.86	1/2	5.00	16.00
FDL6002A	3/4-1/6	115	1075	9.10	REV	4	4.86	1/2	5.00	16.00
FD6001A	3/4-1/6	208-230	1075	4.00	REV	4	4.86	1/2	5.00	16.00

HVAC, 5 5/8" DIAMETER

HVAC BLOWER DUTY ECM


UE6203X

EVERGREEN EM ECM

Designed to replace OEM Constant Torque standard ECM Indoor. Blower motors such as Genteq X13, Endura Pro, Ensite and Ensite Air motors or equilqlent competitors models with 24 VAC Speed taps.

- Evergreen EM - Dual Voltage Constant Torque ECM Replacement Blower Motor
- Pre-Programmed * Ready to use out of the box * Increase first time completion * Rotation sensing technology

- 5.6" Diameter - 48 Frame, Electronically Commutated (ECM), Electronically Protected
- Up to five constant torque settings controlled by 24 VAC inputs
- Fully variable (PWM compatible) from 600-1100 RPM
- Open Air Over, Class B Insulation, 40°C Ambient
- Ball Bearing
- Shaft: Single, 1/2" diameter, 5" length, 4.5" single flat
- 42" Leads
- Belly Band Mount (Belly Band Not Included)
- Encapsulated electronics
- Electronic overload protection
- 6kV surge protection
- UL recognized components

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
UE6203X	1/3	115/208-230	1050	4.10/2.80	Auto	5	5.74	1/2	4.92	12.00
UE6205X	1/2	115/208-230	1050	6.40/4.10	Auto	5	5.99	1/2	4.92	13.50
UE6405E	1/2	460	1075	2.10	Auto	5	6.61	1/2	4.92	13.90
UE6207X	3/4	115/208-230	1050	8.40/6.00	Auto	5	6.49	1/2	4.92	16.50
UE6407	3/4	460	1075	3.10	Auto	5	5.57	1/2	3.92	16.20
UE6210X	1	115/208-230	1050	12.20/9.00	Auto	5	7.53	1/2	4.92	19.50
UE6410	1	460	1075	4.00	Auto	5	6.32	1/2	3.92	19.40


5632E

RESCUE® EZ13™, X-13 ECM

EZ13™ is a variable speed universal ECM replacement motor for furnaces and air handlers.

- Replaces thousands of OEM models
- Built-in 6,000 volt surge protection

- Industry-leading moisture protection
- Ready to install
- No programming required
- Operation mode: constant torque
- Frame: NEMA 48
- Enclosure: Open Air Over (OAO)
- Efficiency: up to 82%
- Belly-band

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
5632E	1/2-1/3	115/208-230	1075	6.30/4.00-3.80	REV	5	6.23	1/2	5.00	10.00
5642E	3/4	115/208-230	1075	9.30/5.80-5.40	REV	5	6.60	1/2	5.00	12.00
5644E	3/4	460	1050	1.70	REV	5	1.70	1/2	5.00	14.00
5652E	1	115/208-230	1075	12.40/7.80-7.20	REV	5	6.98	1/2	5.00	14.00
5654E	1	460	1050	2.30	REV	5	2.30	1/2	5.00	16.00



6633

RESCUE® SELECT PRO™, ECM

- ECM direct drive blower
- Universal programmable ECM Replacement for Selectech®, X13® and Endura® Pro
- Auto-Sensing Rotation and Integrated Bluetooth®
- Constant torque
- Efficiency: up to 82%
- Ready to install, Optional Progamming through App
- Built-in 6,000 volt surge protection
- Industry-leading moisture protection
- Replaces thousands of OEM models

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
6633	1/2-1/3	115/208-230	1075	3.80-6.30	Auto-Sensing	1	3.66	1/2	5.00	10.00
6643	3/4	115/208-230	1075	5.40-9.30	Auto-Sensing	1	4.04	1/2	5.00	12.00
6653	1	115/208-230	1075	7.20-12.40	Auto-Sensing	1	4.41	1/2	5.00	14.00



6503VUI

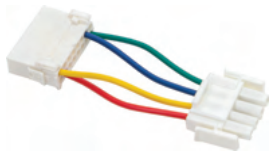
EVERGREEN VS ECM

Designed to replace Genteq Constant Airflow (Variable Speed) Motors. Designed specifically to repalce GE Models 2.0 and 2.5, Genteq models 2.3, EON and 3.0 motors

- Evergreen VS - ECM Variable Speed Replacement Motor
- 5.6" Diameter - 48 Frame
- Electronically Commutated (ECM)
- Electronically Protected
- Open Air Over
- Class B Insulation, 55°C Ambient
- Ball Bearing
- 1/2" Diameter Shaft with Flat
- 36" LeadVUI Ratings included - User Interface 5K010
- Encapsulated electronics
- Electronic overload protection
- 6kV surge protection
- UL recognized components

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
6503VUI	1/3	120/240	1050	5.00/2.80	CCW/CW	VAR	5.70	1/2	5.00	11.00
6503V[1]	1/3	120/240	1050	5.00/2.80	CCW/CW	VAR	5.70	1/2	5.00	11.00
6505VUI	1/2	120/240	1050	7.70/4.30	CCW/CW	VAR	6.20	1/2	5.00	13.00
6505V[1]	1/2	120/240	1050	7.70/4.30	CCW/CW	VAR	6.20	1/2	5.00	13.00
6507VUI	3/4	120/240	1050	10.10/6.10	CCW/CW	VAR	7.00	1/2	5.00	17.00
6507V[1]	3/4	120/240	1050	10.10/6.10	CCW/CW	VAR	7.00	1/2	5.00	17.00
6510VUI	1	120/240	1050	12.80/7.40	CCW/CW	VAR	7.70	1/2	5.00	19.00
6510V[1]	1	120/240	1050	12.80/7.40	CCW/CW	VAR	7.70	1/2	5.00	19.00

[1] Motor Only



5K015

16-4 PIN ADAPTER

Can be used to upgrade the TECMate™ XL diagnostic tool or early model TECMate Pro diagnostic tool to provide the capability to diagnose 4-pin Genteq® ECM model 3.0 motors.

Can also be used to support the replacement of model 2.5 motors with either Genteq OEM model 3.0 or Evergreen® VS motors. (THIS ADAPTER CANNOT BE USED TO REPLACE ANY OTHER GENTEQ MOTORS BUILT WITH 16-PIN PLUGS.)

Part No.	Wgt (Lbs.)
5K015	0.25

HVAC, 5 5/8" DIAMETER

HVAC BLOWER DUTY ECM



5863E

RESCUE® EZ16™, ECM

EZ16™ is a 16-pin variable speed universal ECM replacement motor for furnaces and air handlers.

- Replaces thousands of OEM models
- Built-in 6,000 volt surge protection
- Industry-leading moisture protection
- Operation mode: constant torque
- Frame: NEMA 48
- Enclosure: Open Air Over (OAO)
- Efficiency: up to 82%
- Belly-band
- Field tunable with EZI (included):
- Direct drop-in
- Connects the same as OEM
- Adjustable airflow at point of installation
- Multi-HP trim function to increase flexibility
- Remote mount for ease of access
- Universally compatible with all 2.0, 2.3 EON motors and Nidec16X4W

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
5863E[1]	1/3	115/208-230	1075	4.50/2.90-2.70	REV	VAR	5.50	1/2	5.00	10.00
5862E[1]	1/2-1/3	115/208-230	1075	6.40/4.00-3.80	REV	VAR	5.70	1/2	5.00	10.00
5861E[1]	3/4-1/3	115/208-230	1075	9.30/5.90-5.50	REV	VAR	6.10	1/2	5.00	12.00
5860E[1]	1-1/3	115/208-230	1075	12.10/7.60-7.10	REV	VAR	6.70	1/2	5.00	14.00

[1] 16-Pin Variable Speed



UE6005

SEMI-ENCLOSED EVERGREEN IM - ECM RETROFIT FOR PSC MODELS

- Evergreen IM - Retrofit Blower Motor
- 5.6" Diameter - 48 Frame
- Electronically Commutated (ECM)
- Electronically Protected
- Open Air Over
- Class B Insulation, 40°C Ambient
- Ball Bearing
- 1/2" Diameter Shaft with Flat
- 42" Leads
- Belly Band

Applications

- Direct drive furnace blowers

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
UE6005	1/2-1/5	115/208-230	1075	6.70-4.00	REV	4	4.82	1/2	4.92	13.80
UE6010	1-1/2	115/208-230	1075	11.00-6.70	REV	1	6.32	1/2	4.92	20.23



5522ET

RESCUE® ECOTECH™, ECM

Features

- Electronically Commutated Motor
- PSC Retrofit
- Continuous Duty, Air Over
- Choice of 4 Speeds
- Electronically Protected
- 600RPM speed tap for Continuous Air Movement in the 'OFF' cycle
- Reversible
- Ball Bearings
- Ultra-High Efficiency

Applications

- Furnace blowers
- Air handlers

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
5522ET	1/3-1/5	115/208-230	1075	4.20/2.70	REV	4	5.75	1/2	4.50	12.83
5532ET	1/2-1/4	115/208-230	1075	6.80/4.10	REV	4	5.75	1/2	4.50	10.00
5542ET	3/4-1/3	115/208-230	1075	8.50/5.20	REV	4	6.75	1/2	4.50	17.00
5552ET	1-1/2	115/208-230	1075	11.50/6.90	REV	4	7.25	1/2	4.50	18.45



QT6101

QWIKSWAP™

Features:

- Direct replacement for any Constant Torque or Variable Air Flow ECM motor up to 1 HP
- Fast Replacement, without programming; simply transfer the connection from the ECM motor to the QwikSwap™ Board and wire the QwikSwap™ board to any PSC motor
- Equipped with 6,000 Amp, 100 Joules surge protection on all high voltage circuits

Additional features for QT6104:

- Provides Variable Blower Air Flow
- Automatically selects the optimum PSC motor blower speed (Low, Medium or High) every time the unit cycles on
- Provides improved humidity removal compared to fixed-speed operation (56% improvement at 82°F, 157% at 97°F outdoor air temperature)
- Works with optional Humidity Sensor (QT6001) for enhanced humidity removal

Part No.	Description
QT6101*	The QwikSwap X1 (QT6101) provides a single technician-selected motor speed when replacing a failed OEM Constant Torque ECM, X13® or SelecTech® motor. Installation is as easy as moving wires from the failed ECM motor to the QwikSwap X1 board, then connecting the replacement PSC motor's common and power lead to the QwikSwap X1 board (along with a capacitor)
QT6104*	QwikSwap™ V3 Board. Replaces ECM motors 2 to 3 HP, and communicating motors. Automatic, 3-speed operation.

ROOM A/C AND FAN COIL DUTY



RAL1016

PSC

Features

- 3 speed
- Open ventilation
- Double shaft
- Continuous duty
- Thermal protection
- Includes length adapter kit

Applications

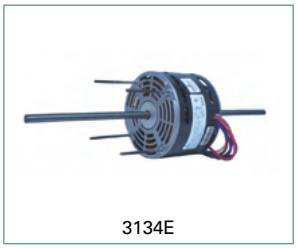
- Fan coil units
- Room air conditioners
- Thru the wall units

									Shaft (In.)				
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	L	Dia.	L	Capacitor	Wgt (Lbs.)
RAL1016	1/6	115	1075	2.20	DS	3	3.88	4.62-5.87	8.00	1/2	8.13	5µf, 370V	12.00
RA1016	1/6	208-230	1075	0.95	DS	3	3.75	4.50-5.75	8.00	1/2	8.25	5µf, 370V	12.00
RAL1026	1/4	115	1075	3.40	DS	3	4.25	5.00-6.25	8.00	1/2	7.75	5µf, 370V	14.00
RAL1024 ◎	1/4	115	1625	3.40	DS	3	4.31	5.12-6.38	8.00	1/2	7.63	5µf, 370V	12.00
RA1026	1/4	208-230	1075	1.50	DS	3	4.13	4.87-6.12	8.00	1/2	7.88	5µf, 370V	13.30
RAL1036	1/3	115	1075	5.00	DS	3	4.88	5.62-6.87	7.25	1/2	7.88	5µf, 370V	17.00
RA1036 ◎	1/3	208-230	1075	1.90	DS	3	4.63	5.38-6.62	7.25	1/2	8.13	5µf, 370V	15.44
RA1034	1/3	208-230	1625	2.00	DS	3	4.63	5.38-6.62	8.00	1/2	7.38	5µf, 370V	15.00
RAL1056	1/2	115	1075	5.20	DS	3	5.38	6.12-7.38	7.25	1/2	7.38	10µf, 370V	20.00
RA1056 ◎	1/2	208-230	1075	2.70	DS	3	5.13	5.87-7.12	7.25	1/2	7.63	7.5µf, 370V	19.00
RAL1076 ◎	3/4	115	1075	8.20	DS	3	5.38	6.12-7.38	7.25	1/2	7.38	15µf, 370V	19.96
RA1076 ◎	3/4	208-230	1075	3.60	DS	3	5.38	6.12-7.38	7.25	1/2	7.38	7.5µf, 370V	20.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HVAC, 5 5/8" DIAMETER

ROOM A/C AND FAN COIL DUTY



3134E

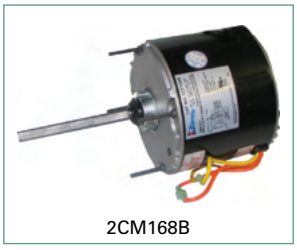
PSC

Features
- 48 Frame, 5.6" Diameter
- Mounts with thru-bolts, shell holes or belly band
- 20" leads
- Extended mounting studs
- 2.25" diameter hub rings included
- All-position mount

Applications
- Fan coil units
- Room air conditioners
- Thru the wall units

								Shaft (In.)				
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	L	Dia.	L	Capacitor	Wgt (Lbs.)
3134E	1/4	230	1075	2.00	DS	3	4.63	8.00	1/2	8.00	5µf, 370V	13.00
3135E	1/3	230	1075	2.50	DS	3	4.63	8.00	1/2	8.00	5µf, 370V	14.00

CONDENSER FAN DUTY



2CM168B

TOTALLY ENCLOSED AIR OVER

Features
- PSC-single speed
- Continuous duty
- Thermal protection

Applications
- A/C condenser fans
- Heat pump condenser fans
- Commercial condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
2CM168B	1/6	208-230	825	1.00	REV	1	4.10	1/2	6.00	5µf, 370V	9.10
2CM162B	1/6	208-230	1075	1.20	REV	1	4.10	1/2	5.00	10µf, 370V	14.00
2CF146B	1/4	208-230	1075	1.70	REV	1	4.10	1/2	5.00	5µf, 370V	14.00
2CM138B	1/3	208-230	825	2.40	REV	1	4.60	1/2	5.00	7.5µf, 440V	16.00
2CF136B	1/3	208-230	1075	2.10	REV	1	4.60	1/2	5.00	7.5µf, 370V	16.00
2CF126B	1/2	208-230	1075	2.90	REV	1	5.10	1/2	5.00	10µf, 370V	19.00



1872E

TOTALLY ENCLOSED AIR OVER

Designed for all position mounting—shaft up, down or horizontal

Features

- 60°C rated, can be used to replace totally enclosed
- Extended mounting studs on both sides for ease of mounting
- Easily reversible
- 1/2" by 5" long shaft with flat
- High performance self aligning sleeve bearing with hardened steel thrust washers or ball bearing

Applications

- A/C condenser fans
- Heat pump condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
1872E	1/8	208-230	825	0.80	REV	2	4.10	1/2	6.00	5µf, 370V	11.00
1873E	1/6	208-230	825	1.00	REV	2	4.10	1/2	6.00	5µf, 370V	12.00
1859E	1/6	208-230	1075	1.00	REV	1	3.80	1/2	5.00	5µf, 370V	11.00
1874E	1/4	208-230	825	2.00	REV	2	4.30	1/2	6.00	5µf, 370V	13.00
1860E	1/4	208-230	1075	1.50	REV	1	4.10	1/2	5.00	5µf, 370V	12.00
1876E ◎	1/4	208-230	1075	1.50	REV	1	4.10	1/2	5.00	5µf, 370V	11.00
1861E	1/3	208-230	1075	2.00	REV	1	4.60	1/2	5.00	7.5µf, 370V	14.00
1875E[1]	1/3-1/5	208-230	825	2.40-1.40	REV	2	5.10	1/2	6.00	7.5µf, 370V	17.00
1881E	1/3	460	825	1.00	REV	1	5.60	1/2	6.00	7.5µf, 370V	17.20
1862E	1/2	208-230	1075	3.00	REV	1	5.10	1/2	6.00	10µf, 370V	18.00
1868E	3/4	208-230	1075	4.50	REV	1	5.80	1/2	5.00	10µf, 370V	20.00

[1] Includes 4 holes in shell for Rheem mount



D794

SHAFT END ENCLOSED

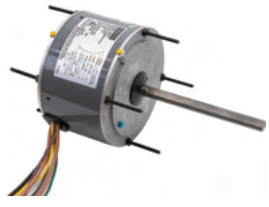
Features

- PSC Single and Multi Speed
- Continous Duty
- Auto Thermal Protection
- Totally Enclosed or Semi-Enclosed
- 60 degee C Ambient unless noted
- Reversible

Applications

- Condenser Fan Motors
- Heat Pumps Motors
- Refrigeration Motors

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
D794 ◎	1/5	208-230	825	1.30	REV	1	4.33	1/2	6.00	5µf, 370V	12.00
D7749 ◎	1/4	208-230	1075	1.70	REV	1	3.80	1/2	6.50	5µf, 370V	10.99
D783	1/4	208-230	1625	1.50	REV	1	3.50	1/2	5.94	5µf, 370V	12.40
D7745 ◎	1/2	208-230	1075	2.90	REV	1	4.20	1/2	6.50	5µf, 370V	15.00
D913 ◎	1/4	460	1075	1.10	REV	1	4.25	1/2	5.90	5µf, 370V	13.00



D919

TOTALLY ENCLOSED AIR OVER

Features

- PSC-single speed
- Totally enclosed, air over
- Shaft-up or shaft-down mount
- Thermal protection

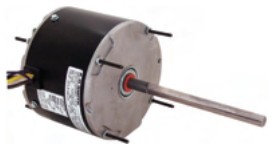
Applications

- A/C condenser fans
- Heat pump condenser fans
- Replaces Rheem OEM motors with 4 drilled & tapped holes in shell

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
D919	1/8	208-230	1075	0.90	REV	1	3.80	1/2	6.00	5µf, 370V	10.99
D798	1/6	208-230	825	1.30	REV	1	4.33	1/2	6.00	5µf, 370V	12.00
D917	1/6	208-230	1075	1.00	REV	1	3.75	1/2	6.00	5µf, 370V	12.00
D906	1/5	208-230	1075	1.20	REV	1	4.00	1/2	6.00	5µf, 370V	12.00
D748	1/3	208-230	1075	2.90	REV	1	4.20	1/2	6.50	5µf, 370V	12.00

HVAC, 5 5/8" DIAMETER

CONDENSER FAN DUTY



UE182

CONDENSER FAN MOTORS - 48 FRAME

Features
- PSC Single and Multi Speed
- Continous Duty
- Auto Thermal Protection
- Totally Enclosed or Semi-Enclosed
- 60 degee C Ambient unless noted
- Reversible

Applications
- Condenser Fan Motors
- Heat Pumps Motors
- Refrigeration Motors

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
UE182[1]	1/10	208-230	1075	0.70	REV	1	3.10	1/2	6.00	5Mfd	9.00
F1056S[2]	1/2	208-230	1075	2.50	REV	1	3.80	1/2	6.40	10Mfd	16.00
ORM1008[1]	1/8	208-230	825	0.70	REV	1	3.60	1/2	4.80	5Mfd	10.00
FSE1018S[1]	1/6	208-230	825	1.10	REV	1	4.19	1/2	6.00	5Mfd	13.00
FSE1056SV1[1]	1/2	208-230	1075	4.00	REV	1	4.80	1/2	6.00	10Mfd	18.00
UE666[2]	1/2	208-230	1625	3.90	REV	1	4.30	1/2	6.00	5Mfd	16.00
FSE1016SV1[1]	1/6	208-230	1075	1.00	REV	1	3.31	1/2	6.00	5Mfd	10.00
UE435[3]	1/2	460	1075	1.70	REV	1	4.50	1/2	6.10	7.5Mfd	16.00
FSE1026SV1[1]	1/4	208-230	1075	2.00	REV	1	4.30	1/2	6.00	5Mfd	12.00
FH1054[2]	1/2	460	1625	1.40	REV	2	4.80	1/2	6.00	7.5Mfd	16.00
FS1024S[2]	1/4	208-230	1625	1.40	REV	1	3.40	1/2	4.90	5Mfd	11.00
FE1036[2]	1/3	208-230	1075	1.80	REV	2	4.50	1/2	6.00	7.5Mfd	16.00
FSE1036SV1[1]	1/3	208-230	1075	2.70	REV	1	4.30	1/2	6.00	7.5Mfd	17.00
UE665[2]	1/3	208-230	1625	1.90	REV	1	3.80	1/2	6.00	5Mfd	13.00
FSE1076SV1[1]	3/4	208-230	1075	5.20	REV	1	5.60	1/2	6.00	15Mfd	19.00
F1076SV1[2]	3/4	208-230	1075	5.30	REV	1	5.40	1/2	4.00	12.5Mfd	21.00
UE158[2]	3/4	460	1075	2.10	REV	1	5.00	1/2	6.00	10Mfd	19.00
F1106	1	208-230	1075	5.40	REV	1	5.50	1/2	6.40	15Mfd	22.00
UE159	1	230/460	1075	4.70/2.40	REV	1	5.10	1/2	6.00	15Mfd	21.00

[1] Totally Enclosed [2] Semi Enclosed [3] Semi Enclosed - Rheem Replacement



FE1008SV1

TOTALLY ENCLOSED AIR OVER

Features
- PSC-single & multi speed
- Shaft-up or shaft-down mount
- Continuous duty
- Thermal protection

Applications
- A/C condenser fans
- Heat pump condenser fans
- Commercial condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
FE1008SV1	1/10	208-230	825	0.60	REV	1	4.00	1/2	6.00	5µf, 370V	10.00
UE554	1/6	208-230	1075	1.00	REV	2	4.00	1/2	6.00	5µf, 370V	10.60
FE1026	1/4	208-230	1075	1.30	REV	2	4.38	1/2	6.00	5µf, 370V	13.00
FSE1026	1/4	208-230	1075	1.30	REV	2	4.38	1/2	6.00	5µf, 370V	13.00
FE1056	1/2	208-230	1075	2.80	REV	2	5.50	1/2	6.00	10µf, 370V	16.00



FH1038

CONDENSER FAN DUTY MOTOR

Features

- PSC-single & multi speed
- Shaft slinger included
- Continuous duty
- Thermal protection

Applications

- A/C condenser fans
- Heat pump condenser fans
- Commercial condenser fans

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Ring Mount. Dim. (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
FH1038	1/3	460	825	0.90	REV	1	5.63	6.00	1/2	6.44	10µf, 370V	18.00
UE436[1]	1/3	460	1075	1.00	REV	1	4.75	5.25	1/2	6.00	5µf, 370V	14.60
UE783A	1/2	460	1625	1.60	REV	2	5.25	5.50	1/2	6.00	7.5µf, 370V	16.00

[1] Dripproof, resilient mounting rings included



X462

TOTALLY ENCLOSED AIR OVER

Features

- 460V, single phase, PSC
- Weather resistant reversing plug
- Ball bearing
- Frame and end brackets enclosed
- 60°C ambient

Applications

- A/C condenser fans
- Heat pump condenser fans
- Commercial condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
X462	1	460	1075	3.40	REV	1	7.25	1/2	6.00	25µf, 370V	27.00



FB1056

DUNHAM BUSH

Features

- Auto Protector
- Base Mounted
- Ball Bearing
- Capacity Mounted (Single Phase)
- Open Lead End Only
- Reversible
- 1.0 Service Factor
- Replaces Dunham Bush motor MTR-226
- Capacitor included

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
FB1056	1/2	208-230/460	1075	4.00/2.00	REV	1	8.69	1/2	4.50	7.5µf 370V	22.00



FC3056F

FAN CANOPY

Features

- 3 phase-single speed
- Fan Canopy design
- Ball bearing
- Variable speed capable
- Thermal protection
- 60 Hz only
- "F" suffix indicates 70°C max ambient (other 60°C max ambient)

Applications

- Commercial condenser fans

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
FC3056F	1/2	200-230/460	1140	3.00/1.50	REV	1	6.94	1/2	3.85	18.00
FC3076F	3/4	200-230/460	1140	4.00/2.00	REV	1	9.00	5/8	4.07	24.46
FC3106	1	200-230/460	1140	5.60/2.80	REV	1	9.57	5/8	4.07	31.00

HVAC, 5 5/8" DIAMETER

CONDENSER FAN DUTY


FE1016SF

HEAT MASTER

Features

- Energy efficient PSC design
- 3-year warranty from date of manufacture date code, or 2 years from the date of installation
- High-temperature UL/CSA approved overload protector
- UL/CSA approved Class F insulation
- 70°C max ambient
- Water-resistant reversing plug
- Double sealed ball bearings, or dependable all-angle sleeve bearings
- All-angle mount
- Mounts by belly band, adjustable extended thru-bolts, or Rheem mounting holes, with screws supplied
- Lead length 36"
- 60 Hertz
- Totally enclosed, continuous duty, air over
- UL and CSA approved

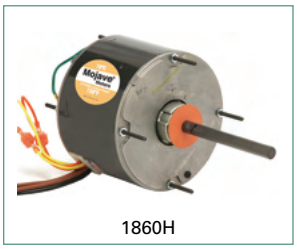
Applications

- A/C condenser fans
- Heat pump condenser fans

Century®

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
FE1016SF	1/6	208-230	1075	1.40	REV	1	3.94	1/2	6.50	5µf, 370V	10.60
FE1018SF	1/6	208-230	825	1.10	REV	1	3.50	1/2	6.50	5µf, 370V	11.00
FSE1028SF	1/4	208-230	825	1.50	REV	1	4.61	1/2	6.50	5µf, 370V	15.00
FE1026SF	1/4	208-230	1075	2.00	REV	1	4.36	1/2	6.50	5µf, 370V	13.00
FSE1026SF	1/4	208-230	1075	2.00	REV	1	4.36	1/2	6.50	5µf, 370V	13.00
FEH1026SF	1/4	460	1075	1.00	REV	1	4.74	1/2	6.50	7.5µf, 370V	12.35
FSE1038SF	1/3	208-230	825	2.10	REV	1	5.11	1/2	6.50	7.5µf, 370V	17.00
FE1038SF	1/3	208-230	1075	2.10	REV	1	5.10	1/2	6.50	7.5µf, 370V	16.00
FE1036SF	1/3	208-230	1075	2.80	REV	1	4.86	1/2	6.50	7.5µf, 370V	15.90
FSE1058SF	1/2	208-230	825	2.50	REV	1	5.61	1/2	6.50	10µf, 370V	19.00
FE1056SF	1/2	208-230	1075	4.00	REV	1	5.36	1/2	6.50	10µf, 370V	18.00
FEH1056SF	1/2	460	1075	1.50	REV	1	5.61	1/2	6.50	10µf, 370V	19.00
FEH1036SF	1/3	460	1075	1.30	REV	1	5.25	1/2	6.50	7.5µf, 370V	15.41
FE1076SF	3/4	208-230	1075	5.10	REV	1	5.61	1/2	6.50	15µf, 370V	18.30
FEH1076SF	3/4	460	1075	2.20	REV	1	6.11	1/2	6.50	10µf, 370V	20.60




1860H

TOTALLY ENCLOSED AIR OVER, PSC, MOJAVE®

Features
- 70°C rated
- Ball bearing have all angle thrust system
- Class F insulation
- Extended mounting studs on both sides for ease of mounting
- Hubless lead end
- Drain holes both ends
- Automatic reset thermal overload protector
- Continuous duty

Applications
- Residential and commercial condensing unit fan motors in extreme temperature locations
- 48" leads

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
1873H*[1]	1/6	208-230	825	1.20	REV	1	4.30	1/2	6.00	5µf, 370V	13.52
1860H*	1/4	208-230	1075	1.70	REV	1	4.10	1/2	6.00	5µf, 370V	12.00
1874H*	1/4-1/8	208-230	825	2.10	REV	1	4.40	1/2	6.00	5µf, 370V	13.27
3736H*	1/4	460	1075	0.80	REV	1	4.80	1/2	6.00	7.5µf, 370V	18.10
1861H*	1/3	208-230	1075	2.10	REV	1	4.60	1/2	6.00	7.5µf, 370V	14.00
1875H*[1]	1/3-1/5	208-230	825	2.40	REV	1	5.30	1/2	6.00	7.5µf, 370V	18.40
3737H*	1/3	460	1075	1.00	REV	1	5.60	1/2	6.00	7.5µf, 370V	14.13
1862H*	1/2	208-230	1075	3.20	REV	1	5.30	1/2	6.00	10µf, 370V	18.00
3738H*	1/2	460	1075	1.50	REV	1	5.80	1/2	6.00	10µf, 370V	18.10
1868H*	3/4	208-230	1075	4.70	REV	1	5.80	1/2	6.00	10µf, 370V	21.40
3742H*	3/4	460	1075	2.00	REV	1	6.60	1/2	6.00	10µf, 370V	22.96

[1] Includes 4 holes with screws in shell for RHEEM Mount


FE1036SU

HEATMASTER® ULTRA MOTOR

The Heatmaster® Ultra motor is a 48 frame, PSC, totally enclosed, condenser fan replacement motor suitable for all major brands of HVAC equipment. Specially designed and constructed to handle the higher temperatures that can occur when PSC motors are applied with speed controls.

Features:
- Speed Engineered® motor for head pressure - speed controls
- Class F Insulation
- 80°C max ambient
- Double sealed ball bearings with high temperature synthetic grease
- Energy-efficient permanent split capacitor (PSC) design
- Mounts by belly band, adjustable extended thru-bolts, or mounting holes

								Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Wgt (Lbs.)
FE1036SU	1/3	208-230	1075	2.50	REV	1	4.25	1/2	6.50	16.00
FE1056SU	1/2	208-230	1075	3.80	REV	1	4.75	1/2	6.50	18.00
FE1076SU	3/4	208-230	1075	5.10	REV	1	5.00	1/2	6.50	18.00


5430E

RESCUE® EZ-WIRE™, MULTI HP

Features
- Replaces 1/3, 1/4, 1/5, 1/6 HP motors
- 48 Frame, 5.6" diameter
- 80°C ambient rated
- Special Rotor Corrosion Protection, designed for longer life and sure start-ups season after season
- Ball-bearing design
- Reversible rotation
- Side Shell Holes
- Universal Mounting
- Replaces ORM 5458

Applications
- Commercial condensing units
- Residential condensing units
- 48" leads

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
5430E	1/3-1/6	208-230	1075	2.20	REV	1	4.30	1/2	5.00	Furnished	11.70

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HVAC, 5 5/8" DIAMETER

CONDENSER FAN DUTY


2CM1848B

LIFESAVER SERIES

Features
- 60°C ambient
- Extended mounting studs
- Class "B" insulation
- 48" leads
- High efficiency design
- Lead end mounting holes for Rheem or Trane units
- Totally Enclosed Air Over
- Thermal reset overload - automatic

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
2CM1848B	1/4	208-230	825	2.00	REV	2	5.00	1/2	6.00	5µf, 440V	13.75
2CMH138X	1/3	208-230	825	1.90	REV	2	5.00	1/2	5.00	7.5 to 10µF, 370V	15.00
2CMH136X	1/3	208-230	1075	2.80	REV	2	5.00	1/2	5.00	5 to 7.5µf, 370V	15.00
2CMH126X	1/2	208-230	1075	3.90	REV	2	5.00	1/2	5.00	10 to 12.5µf, 370V	15.00


5462E

RESCUE®, MULTI HP

Features
- Replaces 1/3, 1/4, 1/5, 1/6 HP motors
- 48 Frame, 5.6" diameter
- 60°C ambient rated
- Mounts with thru-bolts, Rheem shell holes or belly band
- 36" leads
- Extended mounting studs
- Ball-bearing design
- Reversible rotation
- All-position mount totally enclosed
- Flat lead end for shaft down

Applications
- A/C condenser fans
- Heat pump condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
5462E	1/3-1/6	208-230	1075	2.60-1.50	REV	2	4.25	1/2	4.75	5 to 7.5µf, 370V	13.89
5464E	1/2-1/6	208-230	825	1.90-1.00	REV	2	5.25	1/2	4.75	7.5 to 10µf, 370V	16.08
5465E	1/2-1/5	208-230	1075	3.00-1.30	REV	2	5.38	1/2	4.50	10 to 12.5µf, 370V	19.00


FE6001F

MASTERFIT® PRO, MULTI HP

Features
- Energy Efficient
- 2 Speed
- 70°C Ambient
- Class F Insulation
- Totally Enclosed
- Permanent Split Capacitor
- Reversible
- Automatic Protector
- All Position Mounting
- Mounts by Belly Band, Thru Bolts or Shell Holes
- Extended Thru Bolts
- Rheem MountingHolesin Shell
- EndFrame Mounting Holes For Rheem and Trane
- All Purpose Capacitor Included

								Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Case L (In.)	Dia.	L	Capacitor	Wgt (Lbs.)
FE6001F	1/3-1/6	208-230	825	1.90-1.20	REV	2	5.24	1/2	6.50	Furnished	17.00
FE6000F	1/3-1/6	208-230	1075	2.50-1.40	REV	2	4.74	1/2	6.50	Furnished	16.00
FE6003F	1/2-1/5	208-230	825	2.70-1.60	REV	2	5.74	1/2	6.50	Furnished	19.00
FE6002F	1/2-1/5	208-230	1075	3.20-1.60	REV	2	5.44	1/2	6.50	Furnished	17.00



ORM5454BF

4-IN-1 CONDENSER FAN MOTOR

Features

- PSC - MultiHp
- Continous Duty
- Auto Thermal Protection
- Totally Enclosed
- 70 degee C Ambient unless noted

Reversible

- Applications
- Condenser Fan Motors
- Heat Pumps Motors
- Refrigeration Motors

								Shaft (In.)			
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Case L (In.)**	**Dia.**	**L**	**Capacitor**	**Wgt (Lbs.)**
ORM5454BF	1/8-1/15	208-230	1075	0.80	REV	1	3.40	1/2	6.00	5Mfd	11.00
ORM5488BF	1/3-1/8	208-230	825	2.10	REV	1	4.25	1/2	6.00	7.5Mfd	16.00
ORM4688BF	1/3-1/8	460	825	1.00	REV	1	4.60	1/2	6.00	7.5Mfd	17.00
ORM5458B[1]	1/3-1/6	208-230	1075	2.00	REV	1	3.50	1/2	6.00	7.5Mfd	12.00
ORM4658BF	1/3-1/6	460	1075	1.20	REV	1	4.30	1/2	6.00	7.5Mfd	13.00

[1] 60° Ambient



UE6303S

EVERGREEN® OM MOTORS

What if you could replace 16 PSC motors with just 1 ECM motor?

The Evergreen® outdoor condenser fan motor, also known as Evergreen® OM motor, is an ECM designed to replace induction motors (shaded pole or PSC) in outdoor fan applications in HVAC systems.

- One motor covers many applications
- 208-230 VAC
- NEMA® 48-frame
- CCW and CW rotation
- 850 / 1100 RPM
- UL® and CSA recognized component
- Two-year warranty
- Reduce truck stock and get the job done
- Complete calls same day including after hours calls
- Connects directly to existing controls
- 60 degree C Ambient rating
- Energy savings
- Quiet start and operation
- 6303S - Shaft down application only

							Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**Rotation**	**No. of Speeds**	**Case L (In.)**	**Dia.**	**L**	**Wgt (Lbs.)**
UE6303S	1/3-1/12	208-230	825/1075	REV	2	4.39	1/2	6.50	13.00

HVAC, 6 1/2" DIAMETER

CONDENSER FAN DUTY



C512V1

6 1/2 INCH DIAMETER

Features

- PSC, single speed
- Shaft end enclosed
- Reversible
- Double sealed ball bearings
- Thermal protection
- Round Frame unless indicated otherwise
- 6 1/2" Diameter vertical
- 60 degree C Ambient

Applications

- Commercial condenser fans

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
C512V1	1/2	460/200-230	850	1	1.70/3.40	REV	10.75	5/8	6.00	31.00
C660V1	3/4	460/200-230	825	1	2.60/5.20	REV	11.31	5/8	6.00	36.00
C662[1]	3/4	460/208-230	1075	1	2.10/4.20	REV	9.50	5/8	2.75	32.00
FB1076[1]	3/4	208-230/460	1075	1	5.00/2.50	REV	7.81	5/8	4.50	31.00
C770V1	1	460/200-230	1075	1	2.40/4.80	REV	10.81	5/8	6.00	35.00
C771	1 1/2	460/200-230	1075	1	3.30/6.60	REV	12.06	5/8	6.00	44.00

[1] Cushion base



H1056AV1

JUGGERNAUT™, INVERTER DUTY

Features

- 3 phase-single speed
- Suitable for inverter duty
- Max ambient: 70°C
- Class F Insulation
- Removable 56H base for belly band mount
- Enclosed shaft end
- Voltage: 208-230/460
- Voltage terminal board (A suffix)

Applications

- Commercial condenser fans controlled by an "inverter" (VFD)

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
H1056AV1	3/4	208-230/460	1140	3.20/1.60	56HZ	1.00	REV	1	Auto	5/8	6.00	26.84
H1053AV1	1	208-230/460	850	5.10/2.70	56HZ	1.00	REV	1	Auto	5/8	6.00	50.00
H1050AV1	1	208-230/460	1140	4.00/2.20	56HZ	1.00	REV	1	Auto	5/8	6.00	29.00
H1054AV1	1 1/2	208-230/460	850	6.60/3.00	56HZ	1.00	REV	1	Auto	5/8	6.00	50.00
H1051AV1	1 1/2	208-230/460	1140	5.80/2.90	56HZ	1.00	REV	1	Auto	5/8	6.00	37.65
H1052AV1	2	208-230/460	1140	7.00/3.50	56HZ	1.00	REV	1	Auto	5/8	6.00	44.00



H564

6 1/2 INCH DIAMETER

Features

- 3 phase-single speed
- Shaft end enclosed
- Reversible
- Double sealed ball bearings
- Thermal protection
- Round Frame unless indicated otherwise
- 6 1/2" Diameter vertical
- 60 degree C ambient

Applications

- Commercial condenser fans

								Shaft (In.)			
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Mounting	Wgt (Lbs.)
H564[1]	1/2	460/200-230	1140	1	1.30/2.60	REV	10.31	5/8	6.00	Round Belly Band	25.00
H567[1]	3/4	460/200-230	1140	1	1.50/3.00	REV	10.31	5/8	6.00	Round Belly Band	26.00
H685V1[2]	1	200-230/460	1140	1	3.60/1.80	REV	8.75	5/8	3.56	Rigid Base	33.00
H667V1[1]	1	200-230/460	1140	1	4.60/2.30	REV	8.15	5/8	6.06	Round	32.00
H696V1[3]	1	208-230/460	1140	1	4.00/2.00	REV	10.20	5/8	4.88	Round	35.00
H686[1]	1	460/200-230	850	1	2.00/4.00	REV	9.36	5/8	4.88	Round	33.00
H697V1[4]	1 1/2	200-230/400	1140	1	5.60/2.80	REV	9.25	5/8	6.19	Round	37.00
H767V1[1]	1 1/2	460/200-230	1140	1	5.00/2.50	REV	8.65	5/8	6.19	Round	33.00
H698V1[4]	2	208-230/460	1140	1	6.20/3.10	REV	10.25	5/8	3.44	Round	44.00

[1] 3-Phase Motor [2]Totally enclosed. 3-Phase Motor. Rigid base [3]Totally enclosed. 3-Phase Motor. [4]Totally enclosed. 3-Phase Motor. Round mounting.



1820H

CONDENSER FAN MOTOR, MOJAVE®

Features

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty, Air Over
- Double-Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 70 degree C Ambient
- Shaft-Up Mounting

Applications

- Condenser cooling fans in commercial air conditioning where 3 phase power is required.

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
1820H	1	208-230/460	1140	4.00/2.00	56Z	1.00	REV	1	Auto	5/8	6.00	29.44
1819H[1]	1 1/2	208-230/460	1140	6.20/3.10	56Z	1.00	REV	1	Auto	5/8	6.00	35.00

[1] No Base

HVAC, 6 1/2" DIAMETER

CONDENSER FAN DUTY


1139VG

CONDENSER FAN MOTOR - VARITOUGH INVERTER DUTY

Features

- Designed to NEMA MG1-Part 31
- Open Drip-Proof, Shaft-up design
- Max ambient: 70°C
- Continuous duty, air over
- Double sealed ball bearings
- Includes shaft ground ring
- Patented voltage change device
- Lock bearing system OSE
- Class F insulation
- Reversible rotation
- Thermostat temperature protection

Applications

- Condenser cooling fans in commercial refrigeration
- Where 3 phase power and variable frequency drives (VFD) are required

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
1139VG	1/2	230/460	575	3.10/1.60	56YZ	1.00	REV	1	5/8	6.00	50.00
1297VG[1]	1/2	480	575	1.90	56HZ	1.00	REV	1	5/8	4.25	49.60
1830VG[2]	1	208-230/460	825	5.20/2.60	56YZ	1.00	REV	1	5/8	3.25	41.41
1828VG[2]	1	208-230/460	850	5.00/2.50	56YZ	1.00	REV	1	5/8	6.00	32.00
1833VG	1	208-230/460	850	5.00/2.50	56YZ	1.00	REV	1	5/8	6.00	42.00
1818VG[2]	1	208-230/460	1140	4.30/2.10	56YZ	1.00	REV	1	5/8	6.00	32.00
1820VG	1	208-230/460	1140	4.30/2.10	56YZ	1.00	REV	1	5/8	6.00	38.00
1831VG	1 1/2	208-230/460	850	7.20/3.60	56YZ	1.00	REV	1	5/8	3.50	63.00
1832VG[2]	1 1/2	208-230/460	850	7.20/3.60	56YZ	1.00	REV	1	5/8	3.50	63.00
1819VG[2]	1 1/2	208-230/460	1140	5.30/2.60	56YZ	1.00	REV	1	5/8	6.00	44.00
1821VG	1 1/2	208-230/460	1140	5.30/2.60	56YZ	1.00	REV	1	5/8	6.00	44.00
8987V[2]	2	208-230/460	1140	7.80/3.90	56YZ	1.00	REV	1	5/8	6.00	48.00

[1] Automatic Thermal Overload Protector [2] No Base


X507

56 FRAME, 3 PHASE

Features

- Open, shaft end enclosed, air over
- 3 phase motors
- Enclosed shaft end bracket, vented frame
- 70 degrees C ambient
- Automatic reset thermal protector
- Nameplate 60/50 hertz 190/380 volts, at next lower HP
- VCD voltage change device
- 56Y are band mount motors; will accept optional resilient base
- Double sealed ball bearings
- Shaft with flat and keyway
- Threaded lead exit
- Shaft slinger
- UL Recognized and CSA Certified

Applications

- Commercial condenser fans Used on Trane, Carrier, Climatrol and York units, 5 tons and larger.
- Supermarket refrigeration units.

								Shaft (In.)				
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Mounting	FLA	Wgt (Lbs.)
X507	1	200-230/460	850	1	5.30/2.60	REV	12.00	5/8	5.00	Belly Band	2.6 @ 460 Vac	46.00
X502	1	200-230/460	1140	1	4.20/2.10	REV	10.00	5/8	5.00	Belly Band	2.1 @ 460 Vac	29.00
X530	1 1/2	208-230/460	850	1	6.80/3.40	REV	11.25	5/8	5.00	Belly Band	3.4 @ 460 Vac	47.00
X503	1 1/2	200-230/460	1140	1	5.40/2.70	REV	11.00	5/8	5.00	Belly Band	2.7 @ 460 Vac	37.00
X509	2	208-230/460	1140	1	6.80/3.40	REV	9.60	5/8	5.00	Belly Band	3.4 @ 460 Vac	46.00



X529

RIGID MOUNT

Features

- Open, shaft end enclosed, air over
- 3 phase motors
- Enclosed shaft end bracket, vented frame
- 70 degrees C ambient
- Automatic reset thermal protector
- Nameplate 60/50 hertz 190/380 volts, at next lower HP
- VCD voltage change device
- 56HZ motors have 56H rigid base
- Double sealed ball bearings
- Shaft with flat and keyway
- Threaded lead exit
- Shaft slinger
- UL Recognized and CSA Certified

Applications

- Commercial condenser fans Used on Trane, Carrier, Climatrol and York units, 5 tons and larger.
- Supermarket refrigeration units.

								Shaft (In.)				
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Mounting	FLA	Wgt (Lbs.)
X529	1/2	208-230/460	850	1	3.00/1.50	REV	9.75	5/8	5.00	Rigid Base	1.5 @ 460 Vac	39.00
X528	1	208-230/460	850	1	5.30/2.60	REV	9.75	5/8	5.00	Rigid Base	2.65 @ 460 Vac	46.00
X513	1	208-230/460	1140	1	4.20/2.10	REV	9.75	5/8	5.00	Rigid Base	2.1 @ 460 Vac	30.00
X531	1 1/2	208-230/460	850	1	7.00/3.50	REV	9.50	5/8	5.00	Rigid Base	3.5 @ 460 Vac	48.00
X523	1 1/2	208-230/460	1140	1	5.40/2.70	REV	10.75	5/8	5.00	Rigid Base	2.7 @ 460 Vac	38.00

CONDENSER FAN DUTY ECM



6361EO

RESCUE® ECOTECH OUTDOOR 56 EC CONDENSER FAN MOTOR - ECM

- High-efficiency EC motor reduces energy use, especially at partial output
- Accurate airflow control improves overall system efficiencies
- Compact, integrated motor and drive system
- Easily integrates into existing air cooled condenser designs
- Interface board simplifies setup, eliminates need to program each motor
- ECM design provides high efficiency over broad RPM range
- Totally enclosed air-over design with integrated motor control
- Onboard interface board allows easy setup at installation without need for separate programming
- Horizontal or shaft-up mounting
- Active power factor correction

								Shaft (In.)		
Part No.	HP	Voltage	RPM	No. of Speeds	Amps	Rotation	Case L (In.)	Dia.	L	Wgt (Lbs.)
6361EO	2 1/2	208-230	300-1200	VAR	6.50-5.80	REV	14.08	5/8	3.35	45.00

DEFINITE PURPOSE

OIL BURNER



3196E

Features
- 40°C rated, totally enclosed when mounted
- Easily reversible
- Sleeve bearings have all angle thrust system

Applications
- Oil burners
- Replaces Beckett 2456T, Carlin 99FRD

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
3196E	1/8	115	1725	2.40	48N	1.00	REV	1	1/2	2.00	12.00
3083E	1/7	115	3450	2.40	48M	1.00	REV	1	1/2	2.00	9.75
3252E	1/6	115	1725	3.10	48N	1.00	REV	1	1/2	2.00	14.00



21805U

OIL BURNER MOTOR

Features
- PSC
- Energy efficient
- Capacitor included
- NEMA 2 bolt flange mount
- Automatic thermal overload

									Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Capacitor	Wgt (Lbs.)
21805U	1/7	115	3450	1.80	48M	1.00	CCWSE	1	1/2	1.88	Included	7.30

PUMP MOTOR



4406

CARBONATOR PUMP MOTOR

Features
- Slotted Shaft
- Split Phase
- 60HZ
- Auto Overload
- Resilient Base

Application
- Replacement for many OEM Carbonator pumps

							Shaft (In.)	
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	Wgt (Lbs.)
4406	1/3	115	1725	5.60	CCW/CW	1	5/8	14.00



CB2024AV1

CARBONATOR PUMP MOTOR

Features

- Slotted Shaft
- Split Phase
- 50 / 60 Cycle Rated
- Auto Overload

Applications

- Replacement for many OEM carbonator pumps

							Shaft (In.)	
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Dia.**	**Wgt (Lbs.)**
CB2024AV1	1/4	115	1725	4.40	REV	1	5/8	12.00
CB2034A	1/3	115	1725	6.20	CWSE	1	5/8	14.00
CB2034AD	1/3	115/230	1725	4.60/2.30	REV	1	5/8	15.00



6079E

CARBONATOR PUMP MOTOR

Features

- Green ground lead
- Threaded conduit hub
- Slotted Shaft
- Auto Overload
- 48YZ Feame

Applications

- Designed end shield with extended hub and short slotted shaft for close coupling carbonator pump to motor

Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Wgt (Lbs.)**
6079E	1/3	115/208-230	1800	6.30/3.10	REV	1	16.00
6078E	1/2	115/208-230	1800	7.50/3.60	REV	1	17.00



SPECIAL APPLICATION

EVAPORATIVE COOLER



DI2530

EVAPORATIVE COOLER MOTOR KIT

Each kit includes: one motor, 36" power cord with plug, adjustable pulley and motor clamps

Features

- Split phase
- Windings encapsulated moisture resistant varnish
- Rust inhibiting materials used in starting components
- High temperature insulation capable of 300°F
- Automatic overload
- Heavy duty bronze sleeve bearings

Applications

- Evaporative coolers

								Shaft (In.)	
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**NEMA Frame**	**Rotation**	**No. of Speeds**	**Dia.**	**Wgt (Lbs.)**
DI2530	1/3	115	1725	6.30	56Z	CW	1	1/2	13.70
DI2537	1/3	115	1725	6.50/3.50	56Z	CW	2	1/2	15.50
DI2545	1/2	115	1725	7.60	56Z	CW	1	1/2	15.20
DI2548	1/2	115	1725	8.40/4.00	56Z	CW	2	1/2	18.60
DI2564	3/4	115	1725	10.50	56Z	CW	1	1/2	18.10
DI2569	3/4	115	1725	10.50/4.80	56Z	CW	2	1/2	22.50
DI2393[1]	1	115	1725	13.00-7.00	56Z	CW	2	5/8	31.30
DI2394[1]	1	208-230	1725	6.50/3.50	56Z	CW	2	5/8	31.30

[1] Capacitor Start

EXHAUST VENTILATOR



H212

EXHAUST VENTILATOR, C-FACE

Features

- Ball bearing
- Split phase
- 56CZ frame

Applications

- Commercial and industrial fan and blower exhaust ventilators.

									Shaft (In.)		
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**NEMA Frame**	**Service Factor**	**Rotation**	**No. of Speeds**	**Dia.**	**L**	**Wgt (Lbs.)**
H212	1/4	115	1725	5.60	56CZ	1.35	REV	1	5/8	2.25	13.10
H217	1/3	115	1725	6.60	56CZ	1.35	REV	1	5/8	2.25	15.00

FRACTIONAL SPLIT PHASE



8000E

NEMA 48 FRAME SPLIT PHASE BELTED FAN AND BLOWER

Features

- Resilient Base
- Class B Insulation unless otherwise noted
- With threaded conduit hole
- Reversible rotation
- Automatic reset thermal overload protector
- Ball Bearings

Application

- Designed to meet manufacturer's requirements for belted fans and blowers

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
8000E	1/4	115	1725	5.30	48	1.35	REV	1	1/2	1.50	13.00
8100E	1/3	115	1725	6.40	48	1.35	REV	1	1/2	1.50	15.00
8200E	1/2	115	1725	8.00	48	1.25	REV	2	1/2	1.50	18.00



B300

NEMA 48 FRAME SPLIT PHASE BELTED FAN AND BLOWER

Features

- Extended thru-bolts on B300 series motors
- Shaft adapter to 5/8" included with B200 series models
- Heavy gauge steel frame with resilient "cradle" style base
- 48Y Frame has 48/56 Frame mounting holes
- UL Recognized and CSA Certified

Applications

- Belt drive roof ventilators and furnace blowers

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
B300	1/6	115	1725	3.60	48Y	1.35	REV	1	None	1/2	1.88	13.00
B322	1/6	115	1725	3.60	48Y	1.35	REV	1	Auto	1/2	1.88	13.00
B303	1/4	115	1725	5.00	48YZ	1.35	REV	1	Auto	1/2	1.88	13.90
B302	1/4	115	1725	5.00	48Z	1.35	REV	1	None	1/2	1.88	14.00
B206	1/4	115	1725	5.00	48YZ	1.35	REV	1	Auto	1/2	1.50	13.00
B304	1/3	115	1725	5.50	48Z	1.35	REV	1	None	1/2	1.88	15.00
B305	1/3	115	1725	5.50	48Z	1.35	REV	1	Auto	1/2	1.88	15.10
B207	1/3	115	1725	5.50	48YZ	1.35	REV	1	Auto	1/2	1.50	15.00
H167	1/3	230	1725	3.30	48Z	1.35	REV	1	Auto	1/2	1.88	16.00
B306	1/2	115	1725	7.50	48Y	1.25	REV	1	None	1/2	1.88	17.00
B307	1/2	115	1725	7.50	48Z	1.25	REV	1	Auto	1/2	1.88	19.00
B208	1/2	115	1725	7.50	48YZ	1.25	REV	1	Auto	1/2	1.50	20.00
D163	1/2	230	1725	3.60	48	1.25	REV	1	Auto	1/2	1.63	19.00

BELT DRIVE GENERAL PURPOSE

FRACTIONAL SPLIT PHASE



GF2024

NEMA 48 FRAME SPLIT PHASE BELTED FAN AND BLOWER

Features
- Split phase-single
- Open drip-proof construction
- Resilient base mount
- Reversible
- Automatic Thermal protection

Applications
- Furnace blowers
- Exhaust fans
- Various belt drive

Century®

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
GF2024	1/4	115	1725	5.40	48/56	1.35	REV	1	1/2	1.50	14.00
GF2034	1/3	115	1725	6.80	48/56	1.35	REV	1	1/2	1.50	16.00
GF2054D	1/2	115/230	1725	8.20/4.10	48/56	1.25	REV	1	1/2	1.50	21.00
RB2054DV2	1/2	115/230	1725	8.80/4.40	56	1.25	REV	1	5/8	1.88	21.00

CAPACITOR START



C412V2

BELT DRIVE GENERAL PURPOSE MOTOR

Features
- Capacitor start-single speed
- Open drip-proof construction
- Resilient and rigid base
- Reversible
- Continuous duty
- Voltage 115/208-230
- ES motors have a capacitor start / capacitor run design
- 56 Frame

Applications
- Air handlers
- Fans
- Pumps
- Air compressors

Century®

										Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Capacitor	Wgt (Lbs.)
C412V2	1/2	115/208-230	1725	8.20/4.10	56	1.25	SCCW	1	Auto	5/8	1.88	Furnished	24.00
C426V2[1]	3/4	115/208-230	1725	10.40/5.20	56	1.25	SCCW	1	Auto	5/8	1.96	Furnished	34.00
C666V1	3/4	115/208-230	1725	11.00/5.50	56	1.25	SCCW	1	None	5/8	2.03	Furnished	27.35
BF1072[2]	3/4	115/208-230	3450	12.80/6.40	56	1.50	REV	1	Auto	1/2	1.63	Furnished	22.00
RB1204AV1	2	115/208-230	1725	22.00/11.00	56H	1.15	REV	1	Auto	5/8	1.88	Furnished	44.00

[1] Extended thru bolts, shaft end only [2] Internal Capacitor, Sealed Switch, Terminal Board



B318

BELT DRIVE GENERAL PURPOSE MOTOR

Features
- Ball bearings
- Heavy gauge steel frame
- NEMA service factors
- UL Recognized and CSA Certified Applications

Residential, commercial fans and blowers where high starting torque is required.

LEESON

										Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Capacitor	Wgt (Lbs.)
B318	3/4	115/208-230	1725	10.00/5.00	56	1.25	REV	1	No	5/8	1.88	Furnished	24.00
B319	3/4	115/208-230	1725	10.00/5.00	56	1.25	REV	1	Auto	5/8	1.88	Furnished	22.76
C182A	1	115/208-230	1725	8.40/4.00	56	1.15	REV	1	Auto	5/8	1.88	Furnished	31.00
C235	1	115/208-230	1725	13.60/6.80	56	1.15	REV	1	No	5/8	1.90	Furnished	31.00



V102

BELT DRIVE GENERAL PURPOSE MOTOR

Features
- Capacitor start, capacitor run
- Open drip-proof construction
- High starting torque
- Rigid base
- Reversible
- No Overload Protection

Applications
- Conveyors
- Pumps
- Air compressors

										Shaft (In.)			
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Capacitor	Wgt (Lbs.)
V102	2	115/208-230	1725	10.20/20.40	145T	1.15	REV	1	None	7/8	2.25	Furnished	42.00

3 PHASE



K277

56 FRAME, RESILIENT MOUNT

Features
- 3-Phase, single speed
- ODP
- Reversible
- Ball Bearings
- No Overload Protection

Applications
- Air Handlers
- Fans
- Pumps
- Compressors

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
K277	3/4	208-230/460	1800	3.00/1.50	56	1.25	REV	1	5/8	1.90	21.00
K278	1	208-230/460	1800	3.80/1.90	56	1.15	REV	1	5/8	1.90	24.00



D12P2AH9

56 FRAME, RESILIENT MOUNT

Features
- 3-Phase, single speed
- ODP
- Reversible
- Ball Bearings
- No Overload Protection

Applications
- Air Handlers
- Fans
- Pumps
- Compressors

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
D12P2AH9	1/2	208-230/460	1800	1.40/0.70	56H	1.35	REV	1	5/8	1.90	25.00

BELT DRIVE GENERAL PURPOSE

3 PHASE


H851V3

56 FRAME, RESILIENT MOUNT

Features
- 3 phase-single speed
- Open drip-proof construction
- Resilient base
- Reversible
- Ball bearing
- Continuous duty

Applications
- Air handlers
- Fans
- Pumps
- Air compressors

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
H851V3[1]	3/4	200-240/460	1725	3.00/1.60	56	1.25	REV	1	Auto	5/8	2.03	22.00
H615V2[1]	1	200-240/460	1725	3.40/1.80	56	1.25	REV	1	None	5/8	1.88	24.00
H853V1	1 1/2	460/200-230	1725	5.60/2.80	56H	1.15	REV	1	Auto	5/8	1.88	29.00
H854	2	460/200-230	1725	7.00/3.50	56HZ	1.15	REV	1	Auto	7/8	2.31	38.99
H855	3	460/200-230	1800	8.80/4.40	56HZ	1.15	REV	1	Auto	7/8	2.31	42.00

[1] Extended thru bolts, shaft end only


H280V1

56 FRAME, RIGID BASE

Features
- 3 phase-single speed
- Open drip-proof construction (H280 TENV)
- Rigid base
- Reversible (H534L RCC)
- Ball bearing
- Continuous duty
- ES motors have a capacitor start / capacitor run design

Applications
- Air handlers
- Fans
- Pumps
- Air compressors

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
H280V1[1]	1/2	200-230/460	1200	2.00/1.00	56	1.15	REV	1	None	5/8	2.06	30.00
H279ES	1/2	230/460	1200	1.90/0.95	56	1.25	REV	1	None	5/8	1.88	25.00
H614LES	1	230/460	1800	3.00/1.50	56H	1.25	REV	1	None	5/8	1.88	36.00
H884LES	1 1/2	208-230/460	1800	4.40/2.20	56H	1.15	REV	1	Auto	5/8	1.88	45.00
H885	1 1/2	460/200-230	1800	2.80/5.60	56HZ	1.15	RCC	1	Auto	7/8	2.31	49.00
H886LES	2	230/460	1800	6.00/3.00	56HZ	1.15	REV	1	Auto	7/8	2.25	60.00
H887	3	230/460	1800	9.00/4.50	56HZ	1.15	REV	1	Auto	7/8	2.31	43.00
H847	5	208	3600	6.60/13.20	56HZ	1.15	REV	1	Auto	7/8	2.31	44.00

[1] TENV Enclosure



FX34BK003

FLEX-IN-1

No need to order seperate motors to meet your F-1, F-2, and F-3 needs. Flex-in-1 motor is easily configured into three mounting styles - Rigid/Rigid "C" (standard)/C-face (round only)

- ODP Enclosure
- 2:1 CT for ODP
- Ball Bearings
- Knockouts on all four sides
- 50/60 HZ design
- Class F insultaion
- Locked drive end bearing makes motors suitable for all-angle mounting
- Mounting holes in frame and C-face allows for F-1/F-2/F-3 conduit box locations.
- No Overload Protection

LEESON

									Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Dia.	L	Wgt (Lbs.)
FX34BK003	3/4	208-230/460	1800	2.60/1.30	56HC	1.25	REV	1	5/8	1.88	30.00
FX01BK003	1	208-230/460	1800	3.20/1.60	56HC	1.15	REV	1	5/8	1.88	36.00
FX32BK003	1 1/2	208-230/460	1800	4.40/2.20	56HC	1.15	REV	1	5/8	1.88	28.00
FX02BK003	2	208-230/460	1800	6.00/3.00	56HC	1.15	REV	1	5/8	1.88	46.00

INTEGRAL HEAVY DUTY 3 PHASE



D34P2AH

PREMIUM EFFICIENT, T FRAME, OPEN DRIP PROOF

Features

- Inverter compatible for variable torque
- Class F Insulation, Class B Rise At Service Factor
- "CE" Mark On Nameplate
- 40°C Ambient, NEMA® Design B

Performance on 60 Hz Sine Wave Power

- Regreasable Bearings 180 Frame and up
- Service factor 1.15
- F1 Assembly Position except where noted
- Lifting Provisions
- Conversion Kits: Drip Cover Kits
- G suffix: includes shaft grounding brush to protect the bearings from damaging voltages that can be generated by a VFD

Applications

- Compressors
- Fans
- Pumps
- Material Handling
- Other general purpose

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
D34P2AH	3/4	208-230/460	1800	2.80/1.40	56	1.25	REV	1	None	5/8	1.90	25.00
D1P2D	1	208-230/460	1800	3.20/1.60	143T	1.15	REV	1	None	7/8	2.00	30.00
D32P2D	1 1/2	208-230/460	1800	4.20/2.10	145T	1.15	REV	1	None	7/8	2.00	35.00
D2P2D	2	208-230/460	1800	5.60/2.80	145T	1.15	REV	1	None	7/8	2.00	35.00
D3P2D	3	208-230/460	1800	7.80/3.90	182T	1.15	REV	1	None	1 1/8	2.75	50.00
D5P2D	5	208-230/460	1800	13.00/6.50	184T	1.15	REV	1	None	1 1/8	2.75	71.00
D5P2DG[1]	5	208-230/460	1800	13.00/6.50	184T	1.15	REV	1	None	1 1/8	2.75	71.00
D7P2D	7 1/2	208-230/460	1800	18.60/9.30	213T	1.15	REV	1	None	1 3/8	3.38	105.00
D7P2DG[1]	7 1/2	208-230/460	1800	18.60/9.30	213T	1.15	REV	1	None	1 3/8	3.38	112.00
D10P2D	10	208-230/460	1800	23.80/11.90	215T	1.15	REV	1	None	1 3/8	3.38	133.00
D10P2DG[1]	10	208-230/460	1800	23.80/11.90	215T	1.15	REV	1	None	1 3/8	3.38	183.00
D15P2D	15	208-230/460	1800	37.00/18.30	254T	1.15	REV	1	None	1 5/8	4.00	150.00
D15P2DG[1]	15	208-230/460	1800	37.00/18.30	254T	1.15	REV	1	None	1 5/8	4.00	197.00
D20P2D	20	208-230/460	1800	47.20/23.60	256T	1.15	REV	1	None	1 5/8	4.00	160.00
D20P2DG[1]	20	208-230/460	1800	47.20/23.60	256T	1.15	REV	1	None	1 5/8	4.00	226.00
D30P2D	30	208-230/460	1800	69.00/34.00	286T	1.15	REV	1	None	1 7/8	4.63	350.00
D30P2DG[1]	30	208-230/460	1800	69.00/34.00	286T	1.15	REV	1	None	1 7/8	4.63	350.00

[1] AEGIS Ring Included

BELT DRIVE GENERAL PURPOSE

INTEGRAL HEAVY DUTY 3 PHASE



KIT60

AEGIS SHAFT GROUNDING RING - FOR US MOTORS

AEGIS® Shaft Grounding Ring Bolt through mounting on endshield
Includes: AEGIS Ring and Threaded Screws For 140/180/210/250 frame ODP motor

Part No.	Description	Wgt (Lbs.)
KIT60	140 Frame ODP motors	0.12
KIT61	180 Frame ODP motors	0.12
KIT62	210 Frame ODP motors	0.12
KIT63	250 Frame ODP motors	0.12



U1P2D

T FRAME, PREMIUM EFFICIENCY, TEFC

Features

- Totally Enclosed Fan Cooled
- Shaft Slinger On Pulley End
- Inverter duty rated for variable torque
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Double Shielded Bearings
- Dual Voltage Ratings Suitable For Part Winding Start On Low Voltage
- Suitable For Wye-Delta Start 250 Frame and Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

Applications

- Blowers
- Fans
- Pumps
- Compressors

										Shaft (In.)		
Part No.	HP	Voltage	RPM	Amps	NEMA Frame	Service Factor	Rotation	No. of Speeds	Overload Protection	Dia.	L	Wgt (Lbs.)
U1P2D	1	208-230/460	1800	3.10/1.60	143T	1.25	REV	1	None	7/8	2.25	76.00
U2P2D	2	208-230/460	1800	5.60/2.80	145T	1.25	REV	1	None	7/8	2.25	45.00
U3P2D	3	208-230/460	1800	7.80/3.90	182T	1.25	REV	1	None	1 1/8	2.25	90.00
U7P2D	7 1/2	208-230/460	1800	18.20/9.10	213T	1.25	REV	1	None	1 5/8	3.38	110.00
U10P2D	10	208-230/460	1800	23.80/11.90	215T	1.25	REV	1	None	1 3/8	3.38	133.00
U15P2D	15	208-230/460	1800	36.80/18.40	254T	1.25	REV	1	None	1 5/8	4.00	240.00
U20P2D	20	208-230/460	1800	47.10/23.50	256T	1.25	REV	1	None	1 5/8	4.00	250.00

MOTOR ACCESSORIES

MOTOR BRACKET/MOUNT



23108401

BOHN

Part No.	Description
23108401	Heatcraft Fan Motor Bracket with Bracing Ring
40004701	Rail Motor Mount

MOTOR BASE



UE1207

Century

Part No.	Ring Mount. Dim. (In.)	Shaft Height (In.)	Slot Length (In.)	Description
UE1207	4.687	2 3/4	1 11/16	21/29/39 Frame
UE2061	3.917	3	1 11/16	21/29/39 Frame
UE1212	4.667	3	1 11/16	21/29/39 Frame
UE1226	4.917	3	1 11/16	21/29/39 Frame
UE1292	5.167	3	1 11/16	21/29/39 Frame
UE1422	4.417	3	2 3/4	21/29/39 Frame
UE1340	5.666	3	2 3/4	21/29/39 Frame
UE2062	3.917	3 1/2	1 11/16	39 Frame
UE1347	5.167	3 1/2	1 11/16	39 Frame
UE2044	4.417	3 1/2	2 3/4	39 Frame
UE1209	4.167	3 1/2	1 11/16	39 Frame

MOTOR BASE



30492

FASCO

Part No.	Ring Mount. Dim. (In.)	Shaft Height (In.)	Slot Length (In.)
30492	4.92	3	1.06
30542	5.42	3	1.06
30435	4.35	3	1.69
30558	5.58	3	1.69
30705	7.05	3	1.69
35435	4.35	3 1/2	1.06
35461	4.61	3 1/2	1.06
35492	4.92	3 1/2	1.06
35517	5.17	3 1/2	1.06
35542	5.42	3 1/2	1.06
35705	7.05	3 1/2	1.06
30386	3.86	3.5	1.69
35386	3.86	3 1/2	1.69
35417	4.17	3 1/2	1.69

Continued on next page

MOTOR BASE



KIT37

Part No.	Ring Mount. Dim. (In.)	Shaft Height (In.)	Slot Length (In.)
KIT37	6.5	3 1/2	2.5

BASE MOUNTING PARTS



UE1180

Century

Part No.	Description
UE1180	2 pc base mounting clip, screws/nuts (pkg 2)
UE1181	Spring steel base mounting clip, (pkg 2)
UE1182	Cushion Ring, 2 1/2"OD, Steel Band (pkg 2)
UE1219	Cushion Ring, 2 1/2"OD, Rubber (pkg 2)
UE1220	Cushion Ring, 2 1/4"OD, Steel Band (pkg 2)
UE1221	Century 2-1/4" to 2-1/2" Adapter Ring

BASE MOUNTING PARTS



KIT10

Part No.	Description
KIT10	Cushion Ring, 2 1/2"OD, Steel Band (pkg 2)
KIT51	Resilient Cradle Base Kit, 56 Frame, 3 1/2" Shaft Height, 7 1/2" Hub to Hub
KIT52	2 pc base mounting clip, screws/nuts (pkg 6 sets)
KIT9	Cushion Ring, 2 1/4"OD, Steel Band (pkg 2)

MOTOR ACCESSORIES

LENGTH ADAPTERS



KIT199

Part No.	Description
KIT199	Ring/Length Adapter, 5" Motors
KIT200	Ring/Length Adapter, 4.4 and 5.6" Motors

LENGTH ADAPTER



KIT27

Hub length adapter set. Each set includes two 2 1/4" resilient mounting rings and four metal outer rings to convert to 2 1/2" rings. (Fits 5" and 5 5/8" diameter motors.) Also includes 10-32 studs for adapting to 21 frame and 8-32 screws for extended studs on 5" and 5 5/8" diameter motors.

Part No.	Description
KIT27	Length Adapter Kit, 5, 5 5/8" Dia. Motors

SHAFT BUSHING



UE1231

Part No.	Description
UE1231	1/4" ID x 5/16" OD
UE1302	5/16" ID x 3/8" OD
UE1304	5/16" ID x 1/2" OD
UE1306	3/8" ID x 1/2" OD
UE1307	Split w 3/16 Key, 1/2" ID x 5/8" OD
UE1483	5/8" ID x 3/4" OD
UE1487	1/2" ID x 5/8" OD
UE1488	1/4-20 thread x 1/4" OD

LUG MOUNTING BRACKET



KIT13

Belly Band Mount adjustable ear mount for 5.0" and 5.6" diameter motor (expanding ring type) - 3 Adjustable lugs. For 42 and 48 frame

Part No.	Description
KIT13	Adjustable Ear Mount, 5, 5 5/8" Dia. Motors

LUG MOUNTING BRACKET



UE1223

UE1223, UE1320, UE1377, UE1379 have 1 3/4" Lugs. UE1364, UE1366 have 4" Lugs. UE1410 lugs have both a 3/4" hole for a large mounting rubber (UE1381) and a 1/4" slot for direct mounting.

Part No.	Description
UE1223	5 5/8" Motor, Bolt Circle 6 7/8" - 8 1/8"
UE1320	5" Motor, Bolt Circle 6 5/16" - 7 9/16"
UE1366	5" Motor, Bolt Circle 7 9/16" - 11 9/16"
UE1377	4 5/16" Motor, Bolt Circle 5 1/2" - 6 3/4"
UE1379	3 3/8" Motor, Bolt Circle 4 5/8" - 5 7/8"
UE1410	5 5/8" Motor, Bolt Circle 6 3/8" - 7 5/8", 3/4" Bolt

RING MOUNTING BRACKET



UE1386

Brackets come with mounting rubbers and screws. For use on large direct drive blowers

Part No.	Description
UE1386	5" Motor, Bolt Circle 9"
UE1479	5 5/8" Motor, Bolt Circle 10"
UE1495	5 5/8" Motor, Bolt Circle 11"

MOUNTING BRACKET & ADAPTERS



FM50

Part No.	Description
FM50	Torsion Flex Bracket 10.18", 5" Motor
FM55	Torsion Flex Bracket, 10.18", 5 5/8" Motor
FM554	Mounting Bracket, 4 Wings Evenly Spaced, 9 or 10", 5 5/8" Motor

Continued on next page

Part No.	Description
KIT142	Conduit Box, 3 3/8" Motor
KIT144	Conduit Box, 4.4, 5, 5.6" Motor
KIT216	End plate, base mount for 3 3/8" Motors
KIT225	Triangular Bracket for 3 3/8" Motors
KIT265	Blower Housing Mounting Cup, 3 3/8" Motor
KIT832	8-32 Hex Nuts for Thru-Bolts; Pkg 32
H33	Nu-Tone Mounting Kit, 3 3/8" Motors

STUD MOUNT ADAPTER



KIT42

Part No.	Description
KIT42	Rear Stud Mount Adapter Kit, 5/8", for EC5404D/EC5405D

MOUNTING RUBBER



UE1376

Part No.	Description
UE1376	Mounting Rubber, for 1/2" Slot (pkg of 6)
UE1381	Mounting Rubber, for 3/4" Slot (pkg of 3)

RHEEM PLATE

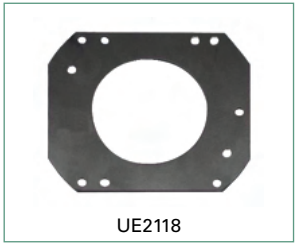
Used to replace mounting cables in RHEEM condensers. Same as FASCO KIT380



UE2098

Part No.	Description
UE2098	Rheem Butt Plate Kit

ADAPTER PLATE



UE2118

Part No.	Description
UE2118	Adapter 5" Diameter motor to 5 5/8" Bolt Pattern

THRU BOLT

Thru-bolt kits include 12 nuts and lock washers of the indicated size



UE1618

Part No.	Description
UE1618	Nuts and lockwashers, 8-32 thread (pkg of 16 sets)
UE1619	Nuts and lockwashers, 10-32 thread (pkg of 16 sets)
UE1639	7" bolts, 8-32 thread (pkg of 4)
UE1640	7" bolts, 10-32 thread (pkg of 4)

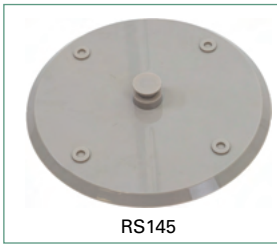
CAPACITOR BRACKET



UE1482

Part No.	Description
UE1482	Capacitor bracket with rubber boot

RAINSHIELD



RS145

Part No.	Description	Bore (In.)	Diameter (In.)
RS145	Rainshield, 1/2" bore, 6.88" diameter	1/2	6.88
RS146	Rainshield, 5/8" bore, 6.88" diameter	5/8	6.88

RAINSHIELD

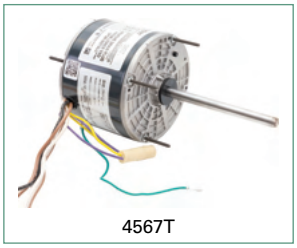
Drip Shield for Condenser Fan Motors - 6-3/8" diameter with 1/2" diameter shaft hole for NEMA®† 42, 48 or 56Z frame motors



KIT26

Part No.	Description
KIT26	Rainshield, 6 3/8"dia., 1/2" shaft

OEM FACTORY REPLACEMENT MOTORS


4567T

BOHN

HEATCRAFT Worldwide Refrigeration

						Shaft (In.)	
Part No.	HP	Voltage	RPM	Rotation	No. of Speeds	Dia.	Wgt (Lbs.)
4567T*	1/4	208-230	1075	CWSE	1	1/2	11.16
5000P*	1/4	208-230	1075	CWSE	1	1/2	10.30
5001M*	1/40	208-230	1550	CWSE	1	5/16	1.00
5001P*	1/4	460	1075	CWSE	1	1/2	10.00
5002L*	1/5	115	1080	CWSE	1	1/2	8.00
5002P*	1/2	208-230	1075	CWSE	1	5/8	21.82
5003L*	1/15	115	1050	CWSE	1	1/2	7.74
5003M*	1/15	208-230	1050	CWSE	1	1/2	8.50
5003P*	1/2	460	1075	CWSE	1	5/8	10.00
5004P*	1/2	208-230/460	1140	CWSE	1	5/8	20.00
5005P*	3/4	208-230	1075	CWSE	1	5/8	18.60
5006P*	3/4	460	1075	CWSE	1	5/8	18.89
5008P*	1/15	208-230	1550	CWSE	1	5/16	4.00
5011T*	1	208-230/460	850	CWSE	1	5/8	37.74
5013P*	1/8	208-230	1550	CWSE	1	3/8	6.00
5015T*	1/4	208-230	1075	CWSE	1	1/2	13.10
5020S*	1/4	115	1075	CWSE	1	1/2	25.00
5020T*	1/4	208-230	1075	CWSE	1	1/2	15.00
5021T*	1/150	230	3000	CWSE	1	1/6	1.60
5023T*	1/4	208-230	1075	CWSE	1	7/16	13.52
5024D*	1/4	208-230	1075	CWSE	1	1/2	10.33
5024Q*	1/8	460	1550	CWSE	1	3/8	8.95
5024T*	1/8	208-230	1550	CWSE	1	3/8	6.73
5025S*	1/80	115	1550	CWSE	1	1/4	2.75
5026S*	1/40	115	1550	CWSE	1	5/16	1.00
5026T*	1/40	230	1550	CWSE	1	5/16	6.00
5030S*	1/150	115	3000	CWSE	1	1/6	2.00
5031S*	1/30	115	1050	CWSE	1	3/8	8.00
5032M*	3/4	230	1075	CWSE	1	1/2	2.51
5032S*	1/15	115	1050	CWSE	1	1/2	3.00
5032T*	1/15	230	1050	CWSE	1	1/2	8.79
5033S*	1/5	115	1050	CWSE	1	1/2	9.38
5034L*	1/20	115	1550	CWSE	1	5/16	3.63
5034M*	1/20	230	1550	CWSE	1	5/16	15.00
5034T*	1 1/2	208-230/460	1140	CWSE	1	5/8	48.45
5035M*	1/14	208-230	1550	CWSE	1	3/8	15.00
5036N*	1/15	115	1550	CWSE	1	5/16	4.00
5036P*	1/15	208-230	1550	CWSE	1	5/16	12.00
5037T*	1/8	208-230	1075	CWSE	1	1/2	9.30
5042G*	1/30	208-230	1050	CWSE	1	3/8	5.00
2530143*	1	230	1075	CCW	1	5/8	35.00
5926J*	3	208-230/460	1800	CWSE	1	1.00	47.72

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

						Shaft (In.)	
Part No.	HP	Voltage	RPM	Rotation	No. of Speeds	Dia.	Wgt (Lbs.)
2530174*	3/4	208-230/460	1075	CWSE	1	1/2	35.00
2530355*	1/3	230	1075	CCW	1	1/2	19.00
2530688*	1/10	115	1075	CWOSE	1	1/2	10.00
2530689*	1/10	230	1075	CW	1	1/2	9.00
2530857*	1/2	230	825	CWSE	2	1/2	23.00
2531010*	1	208-230/460	1140	REV	1	5/8	32.00
2531191*	1/2	230	1075	CWSE	1	1/2	21.00
2531192*	1/3	575	1140	CWSE	1	1/2	20.00
2531193*	1/3	208-230/460	1140	REV	1	1/2	22.00
2531194*	1/20	115	1550	CWOSE	1	5/16	4.00
2531195*	1/20	230	1550	CWOSE	1	5/16	4.00
2535916*	2	208-230/460	1800	CWSE	1	1 1/8	50.00
2531331*	1/4	115	1075	CCW	1	1/2	14.00
2532500*	1/4	230	1075	CWSE	1	1/2	15.00
2532501*	1/4	460	1075	CCW	1	1/2	15.00
2537974*	1/4	208-230	1075	CCW	1	1/2	15.00
7071061*	1/15	230	1550	CCW	1	5/16	5.00
7071208*	1/3	208-230	1075	CW	1	1/2	16.00
7071225*	1/3	460	1075	CW	1	1/2	17.00
7072102*	3/4	208-230/460	1140	REV	1	5/8	26.00
25300701*	1/150	115	3000	CCW	1	1/6	2.00
25301001*	1	208-230/460	1140	REV	1	5/8	36.00
25301101*	1 1/2	208-230/460	1140	REV	1	5/8	40.00
25302201*	1/4	460	1075	CWSE	1	1/2	12.00
25302501*	1/15	208-230	1500	CWSE	1	5/16	4.00
25302601*	1/15	115	1800	CWSE	1	5/16	4.00
25303201*	14W	115	1800	CWOSE	1	1/4-20Thd.	3.00
25303301*	14W	208-230	1800	CW	1	1/4-20Thd.	3.00
25304601*	1/4	460	1075	CW	1	1/2	15.00
25305701*	1/2	208-230	850	CWSE	1	5/8	24.00
25305801*	1/2	460	850	CWSE	1	5/8	26.00
25307701*	1/15	115	1650	CWSE	1	5/16	5.00
25307801*	1/15	208-230	1660	CWSE	1	5/16	5.00
25308101*	1/4	115	1075	CCWOSE	1	1/2	12.00
25308301*	1/5	208-230	1600	CCWOSE	1	5/16	5.00
25308401*	1/15	460	1600	CCWOSE	1	5/16	5.00
25308501*	1/15	115	1650	CCW	1	5/16	5.00
25308601*	1/15	230	1650	CCW	1	5/16	4.00
25308701*	1/15	460	1650	CWSE	1	5/16	5.00
25309001*	1/3	208-230	1075	CWSE	1	1/2	15.00
25309002*	1/3	460	1200	CWOSE	1	1/2	14.00
25309101*	1/15	208-230	1800	CCWSE	1	5/16	5.00
25317801*	1/15	115	1625	CCW	2	5/16	5.00
25317701*	1/15	208-230	1625	CCW	2	5/16	5.00
25318001*	1/15	115	1625	CCWOSE	2	5/16	5.00
25317901*	1/15	208-230	1525	CCWOSE	2	5/16	5.00
25317501*	1/4	208-230	1175	CCWOSE	2	1/2	5.00
25317601*	1/4	115	1175	CCWOSE	2	1/2	5.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OEM FACTORY MOTORS

OEM FACTORY REPLACEMENT MOTORS



950010800

COPELAND

COPELAND

							Shaft (In.)	
Part No.	**HP**	**Voltage**	**RPM**	**Amps**	**Rotation**	**No. of Speeds**	**Dia.**	**Wgt (Lbs.)**
950010800*	1/3	230	1625	2.20	CWOSE	1	1/2	14.66
950023400*	1/3	208-230	825	2.60	CWOSE	1	1/2	17.07
950023800*	1/4	230	1625	1.45	CWOSE	1	1/2	12.25
950050000*	1/6	208-230	1550	1.40	CWOSE	1	1/2	3.50
950034400*[1]	50W	208-230	1550	0.85	CWOSE	1	3/8	7.83
950034401*[1]	50W	115	1550	1.70	CWOSE	1	3/8	7.25
950034403*[1]	50W	460	1550	0.44	CWOSE	1	3/8	7.25
950024502*	1/12	460	1550	0.50	CWOSE	1	1/2	8.19
950050001*	1/20	230	1625	0.80	CWSE	1	1/2	6.10
950050004*	1/20	460	1625	0.40	CWSE	1	1/2	5.95
950024800*	1/2	208-230	1100	4.10	CWOSE	1	1/2	19.84
950024801*	1/2	460	1100	2.10	CWOSE	1	1/2	19.84
950025000*	1/4	230	1625	1.50	CWOSE	1	1/2	14.00
950025001*	1/4	460	1625	0.90	CWOSE	1	1/2	14.65
998025100*	1/6	208-230	1550	1.10	CWOSE	1	1/2	10.00
950025101*	1/6	460	1550	0.55	CWOSE	1	1/2	10.04
050025903*	9W	208-230	1550	0.30	CWOSE	1	15/32	2.40
050025904*	9W	460	1550	0.16	CWOSE	1	15/32	2.42
950026000*	1/2	208-230	1100	4.10	CWOSE	1	1/2	18.43
950026001*	1/2	460	1100	2.10	CWOSE	1	1/2	18.55
950026400*	50W	115	1550	1.70	CWOSE	1	5/16	4.00
950026401*	50W	208-230	1550	0.85	CWOSE	1	5/16	5.86
950026403*	50W	460	1550	0.44	CWOSE	1	5/16	4.30
950026500*	1/6	208-230	1550	1.10	CWOSE	1	1/2	9.00
950026501*	1/6	460	1550	0.55	CWOSE	1	1/2	9.45
950026503*	1/6	208-230	1550	1.10	CWOSE	1	1/2	8.67
950026604*	1/4	208-230	1625	1.50	CWOSE	1	1/2	15.15
950036700*	35W	115	1550	1.40	CWOSE	1	1/4-20 Thd.	4.50
950036701*	35W	208-230	1550	0.70	CWOSE	1	1/4-20 Thd.	3.70
950027000*	1/2	208-230	1625	4.20	CWOSE	1	1/2	6.30
950027001*	1/2	460	1625	1.90	CWOSE	1	1/2	4.54

[1] Motor Kit with Blades

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



810M005B43

TECUMSEH

							Shaft (In.)	
Part No.	HP	Voltage	RPM	Amps	Rotation	No. of Speeds	Dia.	Wgt (Lbs.)
810M005B43*	4W	115	1500	0.50	CWOSE	1	1/4-20 Thd.	2.00
810M006C25*	6W	115	1550	1.00	CWOSE	1	1/4-20 Thd.	2.30
810M009A78*	9W	115	1500	0.67	CWOSE	1	1/4-20 Thd.	2.00
810M009C09*	9W	115	1500	0.53	CWOSE	1	1/4-20 Thd.	2.12
810M009A79*	9W	208-230	1500	0.36	CWOSE	1	1/4-20 Thd.	2.00
810M035B68*	35W	208-230	1500	0.70	CWOSE	1	1/4-20 Thd.	14.00
810E050A85*	1/15	230	1500	1.40	CWOSE	1	5/16	9.00
810E186A82*	1/4	230	1625	1.90	CWOSE	1	1/2	10.00
810E186A83*	1/4	460	1625	0.95	CWOSE	1	1/2	10.00
810F249B52C*	1/3	460	1600	1.00	CWOSE	1	1/2	13.92
810F050B51C*	1/20	460	1550	0.60	CWOSE	1	5/16	8.00
810M050A62*	50W	208-230	1500	0.85	CWOSE	1	5/16	6.00
810F050C20*	50W	208-230	1300	0.70	CWOSE	1	5/16	4.00



1049946

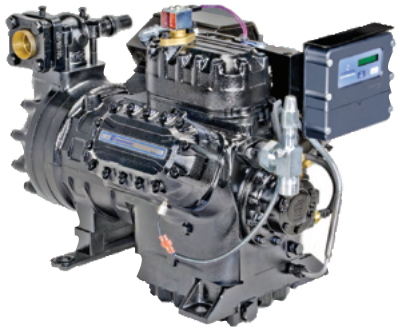
TRENTON

Part No.	HP	Voltage	RPM	No. of Speeds	Wgt (Lbs.)
1049946*	35W	208-230	1500	1	16.00
5010047-001*	45W	208-230	1720	1	5.00
1049520*	50W	208-230	1500	1	6.21
1049947*	50W	460	1500	1	6.81
1048725001*	0.63	208-230	850	1	10.00
160363*	1/40	115	1050	1	12.00
170621*	1/20	115	1550	1	10.00
1062541*	1/15	115	1060	1	5.00
1062542*	1/15	208-230	1060	1	6.00
160276*	1/15	208-230	1050	1	18.00
1047778*	1/15	115	1550	1	12.00
1047779*	1/15	208-230	1550	1	3.85
1078377*	1/3	208-230/460	1075	1	4.00
1045033*	3/4	208-230	1700	1	18.02
1045035*	3/4	575	1700	1	165.00
1083627*	3/4	208-230/460	1075	1	5.00
1040154*	1	208-230	850	1	51.74

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NOTES

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Copeland **Page**
- Multi Application Hermetic Compressor 58-63
- Scroll Compressor 64-73
- Hermetic Reciprocating Compressor 74-81
- Semi-Hermetic Compressor 81-88
- Discus Compressor 89-93

Tecumseh
- Hermetic Reciprocating Compressor 94-98
- Rotary Compressor 99

Danfoss
- Scroll Compressor 100

Maneurop
- Multi Application Hermetic Compressor 101
- Hermetic Reciprocating Compressor 102

Embraco
- Hermetic Reciprocating Compressor 103-106

Bitzer
- Semi-Hermetic Compressor 107-112
- Screw Compressor 112-114

Genuine Carlyle **Page**
- Semi-Hermetic Compressor 115-118
- Semi-Hermetic, Twin Screw Compressor 119-120
- Open Compressor 120-121

Carlyle Service
- Semi-Hermetic Compressor 122

Brainerd
- Semi-Hermetic Compressor 123-128
- Open Drive Compressor 129

GEA Grasso
- Open Drive Compressor 130

Blissfield
- Open Drive Compressor 131

Accessories
- Service Valves for Semi-Hermetic Compressors 132-133
- Rotolock Valve 133-134
- Sight Glass Removal Tool 134
- Gasket Book 134
- Demand Cooling Kit 134

MULTI APPLICATION HERMETIC COMPRESSOR



CS10K6EPFV945

CS HERMETIC

Versatility and a wide choice of operating ranges make Copeland hermetic compressors the first choice for every refrigeration need. The breadth of our hermetic line means system design engineers can match the right compressor to the job requirement for optimum energy efficiency. Copeland compressors are available to support worldwide equipment needs, with many choices of refrigerants and electrical variations. And every compressor is backed by our international reputation for quality and reliability.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
CS10K6EPFV945*	10000	1	208-230	1	10.9	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS12K6EPFV945*	12000	2	208-230	1	10.9	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS14K6EPFV945*	14000	2 1/2	208-230	1	12.4	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS18K6EPFV945*	18000	3	208-230	1	16.0	7.5 x 7.5	13.80	10.20	9.70	5/8 S	1/2 S	84.00
CS20K6EPFV945*	20000	3 1/2	208-230	1	18.6	7.5 x 7.5	14.10	10.20	9.70	5/8 S	1/2 S	64.00
CS24K6EPFV945*	24000	2 1/4	208-230	1	22.3	7.5 x 7.5	14.80	10.20	9.70	5/8 ST	1/2 ST	76.00
CS27K6EPFV945*	27000	4	208-230	1	23.9	7.5 x 7.5	14.80	10.20	9.70	5/8 S	1/2 S	86.00
CS33K6EPFV956*	33000	5	208-230	1	30.7	7.5 x 7.5	15.30	9.30	9.40	7/8 S	1/2 S	86.00
CS10K6ETF5945*	10000	1	208-230	3	7.5	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS12K6ETF5945*	12000	2	208-230	3	7.5	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS14K6ETF5945*	14000	2 1/2	208-230	3	9.1	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS16K6ETF5945*	16000	2 3/4	208-230	3	9.5	7.5 x 7.5	13.80	10.20	9.70	5/8 S	1/2 S	63.00
CS18K6ETF5945*	18000	3	208-230	3	10.4	7.5 x 7.5	13.80	10.20	9.70	5/8 S	1/2 S	84.00
CS20K6ETF5945*	20000	3 1/2	208-230	3	11.4	7.5 x 7.5	14.10	10.20	9.70	5/8 S	1/2 S	84.00
CS27K6ETF5945*	27000	4	208-230	3	13.4	7.5 x 7.5	14.80	10.20	9.70	5/8 S	1/2 S	86.00
CS33K6ETF5956*	33000	5	208-230	3	18.7	7.5 x 7.5	15.30	9.30	9.40	7/8 S	1/2 S	86.00
CS10K6ETFD945*	10000	1	460	3	3.6	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS14K6ETFD945*	14000	2 1/2	460	3	4.7	7.5 x 7.5	13.30	10.20	9.70	5/8 S	1/2 S	80.00
CS18K6ETFD945*	18000	3	460	3	4.7	7.5 x 7.5	13.80	10.20	9.70	5/8 S	1/2 S	84.00
CS20K6ETFD945*	20000	3 1/2	460	3	5.1	7.5 x 7.5	14.10	10.20	9.70	5/8 S	1/2 S	84.00
CS27K6ETFD945*	27000	4	460	3	8.4	7.5 x 7.5	14.80	10.20	9.70	5/8 S	1/2 S	86.00
CS33K6ETFD956*	33000	5	460	3	9.9	7.5 x 7.5	15.30	9.30	9.40	7/8 S	1/2 S	86.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ZB06KAEPFA818

ZB SCROLL

Copeland scroll compressors for medium temperature refrigeration are designed to provide seasonal efficiencies 15% higher than traditional semi-hermetic compressors. Being extremely quiet and the option of being fitted with a sound shell makes them best choice for refrigeration applications in urban and domestic areas. Their light weight and compact design makes them ideal for the usage in refrigeration units, compact refrigeration systems or special process units.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZB06KAEPFA818*	6000	1/2	115	1	14.1	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	65.00
ZB07KAEPFA818*	7000	1	115	1	15.6	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	45.00
ZB06KAEPFV818*	6000	1/2	208-230	1	6.0	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	65.00
ZB07KAEPFV818*	7000	1	208-230	1	6.3	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	45.00
ZB08KAEPFV818*	8000	3/4	208-230	1	8.0	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	48.00
ZB15KCEPFV930*	15000	2	208-230	1	15.7	7.5 x 7.5	14.60	9.60	9.40	3/4 S	1/2 S	62.00
ZB15KCEPFV940*	15000	2	208-230	1	15.7	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB19KCEPFV930*	19000	2 1/2	208-230	1	17.9	7.5 x 7.5	15.04	9.50	9.50	3/4 S	1/2 S	65.87
ZB19KCEPFV940*	19000	2 1/2	208-230	1	17.9	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB21KCEPFV930*	21000	3	208-230	1	20.7	7.5 x 7.5	15.40	9.40	9.50	3/4 S	1/2 S	64.00
ZB21KCEPFV940*	21000	3	208-230	1	20.7	7.5 x 7.5	15.40	9.40	9.50	1 1/4 RL	1 RL	62.00
ZB26KCEPFV930*	26000	3 1/2	208-230	1	23.6	7.5 x 7.5	16.00	9.70	9.80	3/4 S	1/2 S	63.00
ZB26KCEPFV940*	26000	3 1/2	208-230	1	23.6	7.5 x 7.5	16.00	9.70	9.80	1 1/4 RL	1 RL	64.00
ZB30KCEPFV950*	30000	4	208-230	1	26.8	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	78.00
ZB30KCEPFV965*	30000	4	208-230	1	26.8	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB38KCEPFV950*	30000	5	208-230	1	31.1	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	83.00
ZB38KCEPFV965*	30000	5	208-230	1	31.1	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB42KCEPFV950*	42000	5 1/2	208-230	1	31.4	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	91.00
ZB42KCEPFV965*	42000	5 1/2	208-230	1	31.4	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB06KAETF5818*	6000	1 1/2	208-230	3	4.8	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	65.00
ZB08KAETF5818*	8000	3/4	208-230	3	5.3	7.5 x 7.5	18.00	12.00	12.00	3/4 S	1/2 S	48.00
ZB15KCETF5930*	15000	2	208-230	3	8.9	7.5 x 7.5	14.60	9.60	9.40	3/4 S	1/2 S	62.00
ZB15KCETF5940*	15000	2	208-230	3	8.9	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB19KCETF5930*	19000	2 1/2	208-230	3	10.0	7.5 x 7.5	14.60	9.60	9.40	3/4 S	1/2 S	62.00
ZB21KCETF5940*	21000	3	208-230	3	12.1	7.5 x 7.5	15.40	9.40	9.50	1 1/4 RL	1 RL	64.00
ZB19KCETF5940*	19000	2 1/2	208-230	3	10.0	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB21KCETF5930*	21000	3	208-230	3	12.1	7.5 x 7.5	15.40	9.40	9.50	3/4 S	1/2 S	62.00
ZB26KCETF5930*	26000	3 1/2	208-230	3	13.2	7.5 x 7.5	16.00	9.70	9.80	3/4 S	1/2 S	63.00
ZB26KCETF5940*	26000	3 1/2	208-230	3	13.2	7.5 x 7.5	16.00	9.70	9.80	1 1/4 RL	1 RL	67.45
ZB29KCETF5930*	29000	4	208-230	3	20.4	7.5 x 7.5	16.00	9.70	9.80	3/4 ST	1/2 ST	63.00
ZB30KCETF5950*	30000	4	208-230	3	15.7	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	78.00
ZB30KCETF5965*	30000	4	208-230	3	15.7	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB38KCETF5950*	38000	5	208-230	3	22.1	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	83.00
ZB38KCETF5965*	38000	5	208-230	3	22.1	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB45KCETF5950*	45000	6	208-230	3	22.5	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	95.00
ZB45KCETF5965*	45000	6	208-230	3	22.5	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	102.00
ZB50KCETF5950*	50000	7	208-230	3	28.6	7.5 x 7.5	18.80	11.20	11.10	1 1/8 S	7/8 S	95.00
ZB57KCETF5995*	57000	7 1/2	208-230	3	35.5	7.5 x 7.5	17.40	10.30	10.10	1 1/4 RL	1 1/4 RL	87.00
ZB58KCETF5950*	58000	8	208-230	3	30.7	7.5 x 7.5	17.40	10.30	10.10	1 1/8 S	7/8 S	126.00
ZB66K5ETFC960*	66000	9	208-230	3	39.3	7.5 x 7.5	21.00	12.30	14.30	1 3/4 RK	1 1/4 RK	132.00
ZB66KCETF5950*	66000	9	208-230	3	35.0	7.5 x 7.5	21.00	12.30	14.30	1 3/8 S	7/8 S	151.00
ZB76KCETF5950*	76000	10	208-230	3	41.4	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	150.00
ZB88KCETF5950*	88000	11 1/2	208-230	3	47.1	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	161.00
ZB95KCETE5950*	95000	13	208-230	3	61.4	7.5 x 7.5	21.70	12.30	14.30	1 3/8 ST	7/8 ST	146.00

Continued on next page

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MULTI APPLICATION HERMETIC COMPRESSOR

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZB114KCETE5950*	11000	15	208-230	3	65.0	7.5 x 7.5	21.70	12.90	11.70	1 3/8 S	7/8 S	146.00
ZB15KCETFD930*	15000	2	460	3	5.0	7.5 x 7.5	14.60	9.60	9.40	3/4 S	1/2 S	62.00
ZB15KCETFD940*	15000	2	460	3	5.0	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB19KCETFD930*	19000	2 1/2	460	3	5.0	7.5 x 7.5	14.60	9.60	9.40	3/4 S	1/2 S	62.00
ZB19KCETFD940*	19000	2 1/2	460	3	5.0	7.5 x 7.5	14.60	9.60	9.40	1 1/4 RL	1 RL	62.00
ZB21KCETFD930*	21000	3	460	3	6.1	7.5 x 7.5	15.40	9.40	9.50	3/4 S	1/2 S	64.00
ZB21KCETFD940*	21000	3	460	3	6.1	7.5 x 7.5	15.40	9.40	9.50	1 1/4 RL	1 RL	64.00
ZB26KCETFD930*	26000	3 1/2	460	3	6.4	7.5 x 7.5	16.00	9.70	9.80	3/4 S	1/2 S	63.00
ZB26KCETFD940*	26000	3 1/2	460	3	6.4	7.5 x 7.5	16.00	9.70	9.80	1 1/4 RL	1 RL	64.00
ZB30KCETFD950*	30000	4	460	3	7.5	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	83.00
ZB30KCETFD965*	30000	4	460	3	7.5	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	64.00
ZB38KCETFD950*	38000	5	460	3	9.6	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	83.00
ZB38KCETFD965*	38000	5	460	3	9.6	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	83.00
ZB45KCETFD950*	45000	6	460	3	10.1	7.5 x 7.5	17.20	10.10	9.70	7/8 S	1/2 S	95.00
ZB45KCETFD965*	45000	6	460	3	10.1	7.5 x 7.5	17.20	10.10	9.70	1 1/4 RL	1 RL	95.00
ZB50KCETFD950*	50000	7	460	3	15.0	7.5 x 7.5	18.80	11.20	11.10	1 1/8 S	7/8 S	95.00
ZB57KCETFD965*	58000	7 1/2	460	3	15.2	7.5 x 7.5	17.40	10.30	10.10	1 1/4 RL	1 1/4 RL	87.00
ZB58KCETFD950*	58000	8	460	3	16.4	7.5 x 7.5	17.40	10.30	10.10	1 1/8 S	7/8 S	102.00
ZB66K5ETFD960*	66000	9	460	3	17.3	7.5 x 7.5	21.00	12.30	14.30	1 3/4 RK	1 1/4 RK	132.00
ZB66KCETFD950*	66000	9	460	3	17.5	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	150.00
ZB76KCETFD950*	76000	10	460	3	20.0	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	135.00
ZB88KCETFD950*	88000	11 1/2	460	3	20.7	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	161.00
ZB95K5ETFD960*	95000	13	460	3	25.0	7.5 x 7.5	21.70	12.30	14.30	1 3/4 RK	1 1/4 RK	143.00
ZB95KCETED950*	95000	13	460	3	26.4	7.5 x 7.5	21.70	12.30	14.30	1 3/8 S	7/8 S	205.00
ZB114K5ETFD960*	11000	15	460	3	30.0	7.5 x 7.5	21.70	12.30	14.30	1 3/4 RK	1 1/4 RK	146.00
ZB114KCETED950*	11000	15	460	3	35.0	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	146.00



ZF06K4EPFV931

ZF SCROLL

Copeland ZF scroll compressors are developed to provide the best performance for low temperature applications. The line-up has a wide application envelope as it can operate from -40°C evaporating temperature to +7°C. The compressor design has been optimized to perfectly fit frozen food application requirements. Thanks to their scroll compliance mechanism, these scroll compressors feature particularly high tolerance to liquid slugging.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZF06K4EPFV931*	6000	2	208-230	1	13.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00
ZF06K4EPFV961*	6000	2	208-230	1	13.6	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	56.00
ZF08K4EPFV931*	8000	2 1/2	208-230	1	16.4	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	65.00
ZF08K4EPFV961*	8000	2 1/2	208-230	1	16.4	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	65.00
ZF09K4EPFV931*	9000	3	208-230	1	16.4	7.5 x 7.5	16.60	9.40	9.40	3/4 S	1/2 S	65.00
ZF09K4EPFV961*	9000	3	208-230	1	16.4	7.5 x 7.5	16.60	9.40	9.40	1 1/4 RL	1 RL	65.00
ZF11K4EPFV931*	11000	3 1/2	208-230	1	20.7	7.5 x 7.5	16.50	9.50	9.50	3/4 S	1/2 S	68.00
ZF11K4EPFV961*	11000	3 1/2	208-230	1	20.7	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	68.00
ZF13K4EPFV931*	13000	4	208-230	1	26.8	7.5 x 7.5	16.50	9.50	9.50	7/8 S	1/2 S	85.00
ZF13K4EPFV961*	13000	4	208-230	1	26.8	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	85.00
ZF15K4EPFV931*	15000	5	208-230	1	31.8	7.5 x 7.5	18.50	10.10	9.70	7/8 S	1/2 S	94.00
ZF15K4EPFV961*	15000	5	208-230	1	31.8	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	94.00
ZF06K4ETF5931*	6000	2	208-230	3	7.5	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZF06K4ETF5961*	6000	2	208-230	3	7.5	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	56.00
ZF08K4ETF5931*	8000	2 1/2	208-230	3	7.5	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	65.00
ZF08K4ETF5961*	8000	2 1/2	208-230	3	7.5	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	65.00
ZF28K4ETFC991*	28000	7 1/2	208-230	3	30.4	7.5 x 7.5	17.40	10.40	9.70	1 1/4 RL	1 1/4 RL	120.00
ZF09K4ETF5931*	9000	3	208-230	3	10.0	7.5 x 7.5	16.60	9.40	9.40	3/4 S	1/2 S	65.00
ZF09K4ETF5961*	9000	3	208-230	3	10.0	7.5 x 7.5	16.60	9.40	9.40	1 1/4 RL	1 RL	65.00
ZF11K4ETF5931*	11000	3 1/2	208-230	3	12.5	7.5 x 7.5	16.50	9.50	9.50	3/4 S	1/2 S	68.00
ZF11K4ETF5961*	11000	3 1/2	208-230	3	12.5	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	68.00
ZF13K4ETF5931*	13000	4	208-230	3	12.4	7.5 x 7.5	16.50	9.50	9.50	7/8 S	1/2 S	85.00
ZF13K4ETF5961*	13000	4	208-230	3	12.4	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	85.00
ZF15K4ETF5931*	15000	5	208-230	3	16.4	7.5 x 7.5	18.50	10.10	9.70	7/8 S	1/2 S	94.00
ZF15K4ETF5961*	15000	5	208-230	3	16.4	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	94.00
ZF18K4ETF5931*	18000	6	208-230	3	20.0	7.5 x 7.5	20.00	18.50	10.10	7/8 S	1/2 S	95.00
ZF18K4ETF5961*	18000	6	208-230	3	20.0	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	95.00
ZF49K5ETFC960*	49000	10	208-230	3	57.1	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RK	1 1/4 RK	146.00
ZF41K5ETFC960*	41000	13	208-230	3	49.5	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RK	1 1/4 RK	143.00
ZF06K4ETFD931*	6000	2	460	3	3.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00
ZF06K4ETFD961*	6000	2	460	3	3.9	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	56.00
ZF08K4ETFD931*	8000	2 1/2	460	3	3.9	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	65.00
ZF08K4ETFD961*	8000	2 1/2	460	3	3.9	7.5 x 7.5	15.30	9.70	9.70	1 1/4 RL	1 RL	65.00
ZF09K4ETFD931*	9000	3	460	3	5.0	7.5 x 7.5	16.60	9.40	9.40	3/4 S	1/2 S	65.00
ZF09K4ETFD961*	9000	3	460	3	5.0	7.5 x 7.5	16.60	9.40	9.40	1 1/4 RL	1 RL	65.00
ZF11K4ETFD931*	11000	3 1/2	460	3	6.4	7.5 x 7.5	16.50	9.50	9.50	3/4 S	1/2 S	68.00
ZF11K4ETFD961*	11000	3 1/2	460	3	6.4	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	68.00
ZF13K4ETFD931*	13000	4	460	3	6.8	7.5 x 7.5	16.50	9.50	9.50	7/8 S	1/2 S	85.00
ZF13K4ETFD961*	13000	4	460	3	6.8	7.5 x 7.5	16.50	9.50	9.50	1 1/4 RL	1 RL	85.00
ZF15K4ETFD931*	15000	5	460	3	8.6	7.5 x 7.5	18.50	10.10	9.70	7/8 S	1/2 S	94.00
ZF15K4ETFD961*	15000	5	460	3	8.6	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	94.00
ZF18K4ETFD931*	18000	6	460	3	7.5	7.5 x 7.5	18.50	10.10	9.70	7/8 S	1/2 S	95.00
ZF18K4ETFD961*	18000	6	460	3	7.5	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	95.00
ZF28K4ETFD961*	28000	7 1/2	460	3	14.4	7.5 x 7.5	17.40	10.40	9.70	1 1/4 RL	1 1/4 RL	120.00
ZF34K5ETFD960*	34000	10	460	3	21.7	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RK	1 1/4 RK	139.00
ZF49K5ETFD960*	49000	10	460	3	20.2	7.5 x 7.5	27.00	17.00	18.00	1 3/4 RK	1 1/4 RK	146.00
ZF41K5ETFD960*	41000	13	460	3	23.0	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RK	1 1/4 RK	143.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MULTI APPLICATION HERMETIC COMPRESSOR



ZF03KAEPFV818

ZF*KA SCROLL, R404A R407A R407C R407F R448A R449A R507

The Copeland Scroll ZF*KA compressor represents the latest innovation in compliant scroll technology for refrigeration equipment from 0.75 – 1.25 HP (2.5k-7k BTU/ hr at low temperature ARI). It is more efficient than standard reciprocating compressors with 70% less moving parts for increased reliability. The ZF*KA models are intended for low to medium temperature refrigeration type duty and are ideally suited for applications such as walk-in freezers and reach-ins. These are wide-ranged, multi-refrigerant capable with lower sound and vibration recommended for supermarket, restaurant and convenience store operations.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZF03KAEPFV818*	3000	1	208-230	1	6.1	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF04KAEPFV818*	4000	1 1/4	208-230	1	7.4	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF05KAEPFV818*	5000	1 1/2	208-230	1	8.7	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF06KAEPFV818*	6000	2	208-230	1	13.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00
ZF07KAEPFV818*	7000	2 1/4	208-230	1	13.9	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00
ZF09KAEPFV818*	9000	3	208-230	1	15.9	7.5 x 7.5	16.60	9.40	9.40	3/4 S	1/2 S	45.00
ZF03KAETF5818*	3000	1	208-230	3	4.1	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF04KAETF5818*	4000	1 1/4	208-230	3	6.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF05KAETF5818*	5000	1 1/2	208-230	3	7.4	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF06KAETF5818*	6000	2	208-230	3	8.3	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	56.00
ZF07KAETF5818*	7000	2 1/4	208-230	3	8.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF09KAETF5818*	9000	3	208-230	3	4.9	7.5 x 7.5	16.60	9.40	9.40	3/4 S	1/2 S	45.00
ZF03KAETFD818*	3000	1	460	3	2.5	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00
ZF07KAETFD818*	7000	2 1/4	460	3	4.0	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	48.00



ZS38K4EPFV950

ZS, EXTENDED MEDIUM TEMP, R404A R407A R407C R134A R22 R448A

The first generation of ZS refrigeration scroll compressors designed for medium temperature applications. The range goes from 2 to 15hp and is approved for R22, R134a and R404A refrigerants. With three times less moving parts than traditional semi-hermetic compressors, internal protection and its 'compliance' mechanism that allows the compressor to be fully protected against liquid refrigerant, this scroll range has proven to be a reference in terms of reliability.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZS38K4EPFV950*	38000	5	208-230	1	31.8	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS38K4EPFV965*	38000	5	208-230	1	31.8	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS38K4ETF5950*	38000	5	208-230	3	21.4	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS38K4ETF5965*	38000	4 1/2	208-230	3	21.4	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS45K4ETF5950*	45000	6	208-230	3	23.9	7.5 x 7.5	28.00	13.00	12.00	7/8 S	1/2 S	102.00
ZS45K4ETF5965*	45000	6	208-230	3	23.9	7.5 x 7.5	28.00	13.00	12.00	7/8 S	1/2 S	102.00
ZS38K4ETFD950*	38000	5	460	3	9.6	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS38K4ETFD965*	38000	5	460	3	9.6	7.5 x 7.5	17.23	9.67	10.12	7/8 S	1/2 S	83.00
ZS45K4ETFD950*	45000	6	460	3	9.3	7.5 x 7.5	28.00	13.00	2.00	7/8 S	1/2 S	102.00
ZS45K4ETFD965*	45000	6	460	3	9.3	7.5 x 7.5	28.00	13.00	12.00	7/8 S	1/2 S	102.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ZS09KAEPFV818

ZS, HIGH/MEDIUM TEMP, R404A R407C R134A R22 R448A

Copeland ZB*KA and ZS*KA scroll compressors represent the latest innovation in scroll technology for medium temperature refrigeration equipment covering a small size displacement range of 2.5 m³/h to 6 m³/h.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZS09KAEPFV818*	9000	1	208-230	1	10.0	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	47.70
ZS11KAEPFV818*	11000	1 1/2	208-230	1	12.6	7.5 x 7.5	12.00	12.00	18.00	3/4 S	1/2 S	60.00
ZS13KAEPFV818*	13000	1 3/4	208-230	1	12.0	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	59.00
ZS15KAEPFV818*	15000	2	208-230	1	15.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	59.00
ZS19KAEPFV818*	19000	2 1/2	208-230	1	18.0	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	59.00
ZS21KAEPFV818*	21000	3	208-230	1	23.2	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	72.00
ZS26KAEPFV818*	26000	3 1/2	208-230	1	23.6	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	72.00
ZS29KAEPFV818*	29000	4	208-230	1	26.1	7.5 x 7.5	18.00	12.00	12.00	7/8 S	1/2 S	74.89
ZS33KAEPFV818*	33000	4 1/2	208-230	1	25.6	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	72.00
ZS11KAETF5818*	11000	1 1/2	208-230	3	10.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS13KAETF5818*	13000	1 3/4	208-230	3	9.7	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	60.00
ZS15KAETF5818*	15000	2	208-230	3	10.6	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS19KAETF5818*	19000	2 1/2	208-230	3	13.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS21KAETF5818*	21000	3	208-230	3	15.2	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00
ZS26KAETF5818*	26000	3 1/2	208-230	3	15.5	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00
ZS29KAETF5818*	29000	4	208-230	3	20.5	7.5 x 7.5	18.00	12.00	12.12	7/8 S	1/2 S	70.00
ZS33KAETF5818*	33000	4 1/2	208-230	3	22.3	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00
ZS11KAETFD818*	11000	1 1/2	460	3	4.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS13KAETFD818*	13000	1 3/4	460	3	4.8	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	60.00
ZS15KAETFD818*	15000	2	460	3	5.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS19KAETFD818*	19000	2 1/2	460	3	5.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	60.00
ZS21KAETFD818*	21000	3	460	3	6.9	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00
ZS26KAETFD818*	26000	3 1/2	460	3	6.4	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00
ZS29KAETFD818*	29000	4	460	3	7.9	7.5 x 7.5	18.00	12.12	12.00	7/8 S	1/2 S	70.00
ZS33KAETFD818*	33000	4 1/2	460	3	10.0	7.5 x 7.5	19.00	14.00	14.00	7/8 S	1/2 S	80.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCROLL COMPRESSOR



ZO21K5ETF5969

COPELAND SCROLL ZO COMPRESSORS

Copeland ZO scroll compressors have been designed for use in R744 (CO2) low temperature refrigeration systems - suitable for usage in CO2-subcritical cascade and booster systems. Increasing environmental concerns about potential direct emissions from HFC-based refrigeration systems into the atmosphere have led to the revival of R744 in the European refrigeration market - regionally reinforced by legislation and taxation schemes. The ZO range has been particularly designed to exploit the characteristics of the R744 refrigeration system keeping efficiency, reliability and liquid handling advantages of the Copeland scroll technology.

COPELAND

					Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZO21K5ETF5969*	21000	1 1/2	208-230	3	15.30	9.00	9.00	1 1/4	1	49.00
ZO58K3ETF5969*	58000	3 1/2	208-230	3	15.30	9.00	9.00	1 1/4	1	65.00
ZO88KCETF5969*	88000	5	208-230	3	15.30	9.00	9.00	1 1/4	1	88.00
ZO21K5ETFD969*	21000	1 1/2	460	3	15.30	9.00	9.00	1 1/4	1	49.00
ZO34K3ETFD969*	34000	2	460	3	15.30	9.00	9.00	1 1/4	1	60.00
ZO88KCETFD969*	88000	5	460	3	15.30	9.00	9.00	1 1/4	1	88.00
ZOD58K3ETF5969*[1]	58000	3 1/2	208-230	3	15.30	9.00	9.00	1 1/4	1	65.00
ZOD104KCETF5969*[1]	104000	6	208-230	3	15.30	9.00	9.00	1 1/4	1	90.00
ZOD58K3ETFD969*[1]	58000	3 1/2	460	3	15.30	9.00	9.00	1 1/4	1	65.00
ZOD104KCETFD969*[1]	104000	6	460	3	15.30	9.00	9.00	1 1/4	1	90.00

1 Digital



ZF13KVETF5961

EVI, EXTENDED MEDIUM TEMP, R404A R507 R407A

ZF*KVE scrolls with enhanced vapor injection simulate a two stage cycle with interstage cooling by injecting superheated vapor into the compression cycle. Along with subcooling as part of the vapor extraction this optimized design delivers, on average, up to a 50% increase in capacity and a 20% increase in efficiency.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZF13KVETF5961*	13000	4	208-230	3	19.3	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	85.00
ZF18KVETF5961*	18000	6	208-230	3	23.9	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	95.00
ZF25KVETF5991*	25000	7 1/2	208-230	3	31.3	7.5 x 7.5	17.40	10.40	9.70	7/8 ST	3/4 ST	87.00
ZF28KVETFC991*	28000	9	208-230	3	30.4	7.5 x 7.5	17.40	10.40	9.70	1 1/4 RL	1 1/4 RL	87.00
ZF13KVETFD961*	13000	4	460	3	8.6	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	85.00
ZF18KVETFD961*	18000	6	460	3	9.3	7.5 x 7.5	18.50	10.10	9.70	1 1/4 RL	1 RL	95.00
ZF25KVETFD961*	25000	7 1/2	460	3	14.6	7.5 x 7.5	17.40	10.40	9.70	7/8 ST	3/4 ST	87.00
ZF28KVETFD961*	28000	7 1/2	460	3	15.6	7.5 x 7.5	17.40	10.40	9.70	1 1/4 RL	1 1/4 RL	88.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ZBD21KCEPFV940

DIGITAL, MEDIUM TEMPERATURE, R404A R507 R407A

Digital scroll compressor technology reduces power consumption linearly as it modulates capacity; typically reduces ±6°F fixture temperature swings to ±0.5°F

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZBD21KCEPFV940*	21000	3	208-230	3	18.9	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	66.00
ZBD21KCETF5940*	21000	3	208-230	3	12.6	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	90.00
ZBD38KCEPFV965*	38000	4	208-230	3	34.3	7.5 x 7.5	17.10	9.70	9.40	7/8 S	1/2 S	85.00
ZBD30KCETF5950*	30000	3 1/2	208-230	3	15.7	7.5 x 7.5	17.10	9.70	9.40	7/8	3/4	81.00
ZBD30KCETF5965*	30000	3 1/2	208-230	3	15.7	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	87.00
ZBD38KCETF5965*	38000	5	208-230	3	22.6	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	94.00
ZBD45KCETF5950*	45000	5	208-230	3	22.5	7.5 x 7.5	18.90	10.10	9.70	7/8	3/4	87.00
ZBD45KCETF5965*	45000	5	208-230	3	22.5	7.5 x 7.5	18.90	10.10	9.70	1 1/4 RL	1 RL	87.00
ZBD57KCETF5995*	57000	7 1/2	208-230	3	32.1	7.5 x 7.5	17.40	10.30	10.10	1 1/4 RL	1 1/4 RL	92.00
ZBD58KCETF5965*	58000	7 1/2	208-230	3	30.7	7.5 x 7.5	17.40	10.30	10.10	1 1/8	7/8	127.00
ZBD76K5ETFC960*	76000	10	208-230	3	43.0	7.5 x 7.5	21.70	12.30	14.30	1 3/8 S	7/8 S	136.00
ZBD76KCETF5965*	76000	10	208-230	3	41.4	7.5 x 7.5	21.00	11.20	11.10	1 3/8 S	7/8 S	136.00
ZBD114K5ETFC960*	114000	15	208-230	3	58.6	7.5 x 7.5	21.70	12.30	14.30	1 3/4 RL	1 1/4 RL	135.00
ZBD21KCETFD940*	21000	3	460	3	7.1	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	90.00
ZBD30KCETFD950*	30000	3 1/2	460	3	7.4	7.5 x 7.5	17.10	9.70	9.40	7/8	3/4	81.00
ZBD30KCETFD965*	30000	3 1/2	460	3	7.4	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	94.00
ZBD38KCETFD965*	38000	5	460	3	11.3	7.5 x 7.5	17.10	9.70	9.40	1 1/4 RL	1 RL	94.00
ZBD45KCETFD950*	45000	5	460	3	10.0	7.5 x 7.5	18.90	10.10	9.70	7/8	3/4	89.00
ZBD45KCETFD965*	45000	5	460	3	10.0	7.5 x 7.5	18.90	10.10	9.70	1 1/4 RL	1 RL	87.00
ZBD57KCETFD965*	57000	7 1/2	460	3	15.2	7.5 x 7.5	17.40	10.30	10.10	1 1/4 RL	1 1/4 RL	97.00
ZBD58KCETFD965*	58000	7 1/2	460	3	16.4	7.5 x 7.5	17.40	10.30	10.10	1 3/4 RL	1 1/4 RL	127.00
ZBD76K5ETFD960*	76000	10	460	3	20.7	7.5 x 7.5	21.70	12.30	14.30	1 3/4 RL	1 1/4 RL	135.00
ZBD76KCETFD965*	76000	10	460	3	20.0	7.5 x 7.5	21.00	11.20	11.10	1 3/4 RL	1 1/4 RL	136.00
ZBD114K5ETFD960*	114000	15	460	3	30.0	7.5 x 7.5	21.70	12.30	14.30	1 3/4 RL	1 1/4 RL	135.00


ZXI06KCEPFV887

EVI, LOW TEMP, R404A

Copeland ZX condensing units are optimized for its energy saving and customer-friendly electronic features. It has a built-in diagnostic protection capabilities designed for cold chain applications such as walk-in coolers, chillers, cold rooms, freezers typically found in convenience stores, restaurants, supermarkets. Matched with Intelligent Store solutions which enable better facility decisions leading lowering operational cost and maximizing profitability

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZXI06KCEPFV887*	2	208-230	1	16.4	5.2 x 6	16.00	14.00	14.00	3/4 S	1/2 S	144.00
ZXI14KCEPFV847*	4	208-230	1	30.4	7.5 x 7.5	18.00	14.00	14.00	7/8 S	1/2 S	165.00
ZXI16KCEPFV957*	5	208-230	1	34.1	7.5 x 7.5	20.00	14.00	14.00	7/8 S	1/2 S	180.00
ZXI06KCETF5887*	2	208-230	3	12.1	5.2 x 6	16.00	14.00	14.00	3/4 S	1/2 S	144.00
ZXI09KCETF5887*	3	208-230	3	12.9	5.2 x 6	16.00	14.00	14.00	3/4 S	1/2 S	156.00
ZXI11KCEPFV847*	3 1/2	208-230	3	26.4	7.5 x 7.5	16.00	14.00	14.00	7/8 S	1/2 S	156.00
ZXI14KCETF5847*	4	208-230	3	20.0	7.5 x 7.5	18.00	14.00	14.00	7/8 S	1/2 S	165.00
ZXI15KCETF5847*	5	208-230	3	21.4	7.5 x 7.5	20.00	14.00	14.00	7/8 S	1/2 S	180.00
ZXI18KCETF5957*	6	208-230	3	25.5	7.5 x 7.5	20.00	14.00	14.00	7/8 S	1/2 S	180.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCROLL COMPRESSOR


ZFD13KVETF5961

DIGITAL, EVI, LOW TEMPERATURE, R404A R507

Digital scroll compressor technology reduces power consumption linearly as it modulates capacity; typically reduces ±6°F fixture temperature swings to ±0.5°F. KVE scrolls with enhanced vapor injection simulate a two stage cycle with interstage cooling by injecting superheated vapor into the compression cycle. Along with subcooling as part of the vapor extraction this optimized design delivers, on average, up to a 50% increase in capacity and a 20% increase in efficiency.

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZFD13KVETF5961*	4	208-230	3	15.4	7.5 x 7.5	22.00	16.00	12.00	1 1/4 RL	1 RL	102.00
ZFD18KVETF5951*	6	208-230	3	24.3	7.5 x 7.5	22.00	16.00	12.00	7/8	1/2	102.00
ZFD18KVETF5961*	6	208-230	3	24.3	7.5 x 7.5	22.00	16.00	12.00	1 1/4 RL	1 RL	102.00
ZFD25KVETF5991*	7 1/2	208-230	3	24.5	7.5 x 7.5	22.00	16.00	12.00	1 1/4 RL	1 1/4 RL	102.00
ZFD41K5ETFC960*	12	208-230	3	42.1	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RL	1 1/4 RL	139.00
ZFD13KVETFD961*	4	460	3	7.7	7.5 x 7.5	22.00	16.00	12.00	1 1/4 RL	1 RL	102.00
ZFD18KVETFD951*	6	460	3	10.7	7.5 x 7.5	22.00	16.00	12.00	7/8	1/2	102.00
ZFD18KVETFD961*	6	460	3	10.7	7.5 x 7.5	22.00	16.00	12.00	1 1/4 RL	1 RL	102.00
ZFD41K5ETFD960*	12	460	3	19.3	7.5 x 7.5	24.00	15.00	15.00	1 3/4 RL	1 1/4 RL	139.00


ZP67KCEPFV950

ZP SERIES, 1 1/2 TO 15 HP, R410A

Copeland ZP R410A scroll compressors for air conditioning are designed for high efficiency and reliability in air-cooled chiller systems, with evaporating temperatures around +5 °C.

Features such as brazed fitting connections, tandemization and multiple refrigerant capability provide for the needs of a more demanding market.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZP67KCEPFV950*	67500	5 1/2	208-230	1	41.1	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	97.00
ZP72KCEPFV950*	72000	6	208-230	1	41.1	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	93.00
ZP67KCETF5930*	67500	5 1/2	208-230	3	25.0	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	92.00
ZP67KCETF5950*	67500	5 1/2	208-230	3	25.0	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	92.00
ZP72KCETF5950*	72000	6	208-230	3	25.9	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	93.00
ZP76KCETF5950*	77000	6 1/4	208-230	3	27.9	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	93.00
ZP83KCETF5950*	83000	6 3/4	208-230	3	27.9	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	92.00
ZP90KCETF5950*	90500	7 1/2	208-230	3	32.9	7.5 x 7.5	17.40	9.90	9.70	1 1/8 S	7/8 S	127.00
ZP91KCETF5950*	90500	7 1/2	208-230	3	30.7	7.5 x 7.5	17.40	9.90	9.70	7/8 S	3/4 S	90.00
ZP103KCETF5950*	103000	8 3/4	208-230	3	33.6	7.5 x 7.5	16.00	16.00	23.00	1 3/8 S	7/8 S	106.00
ZP104KCETF5950*	106000	8 3/4	208-230	3	31.4	7.5 x 7.5	24.00	18.00	16.00	1 1/8 ST	7/8 ST	105.00
ZP120KCETF5950*	121000	10	208-230	3	37.1	7.5 x 7.5	21.75	10.33	11.70	1 3/8 S	7/8 S	139.00
ZP122KCETF5950*	124000	10 1/2	208-230	3	37.9	7.5 x 7.5	18.00	18.00	24.00	1 7/8 S	7/8 S	107.00
ZP137KCETF5950*	137000	11 1/2	208-230	3	53.6	7.5 x 7.5	18.00	18.00	24.00	1 3/8 S	7/8 S	168.00
ZP154KCETE5950*	155000	12 3/4	208-230	3	57.1	7.5 x 7.5	22.21	11.93	12.93	1 3/8 ST	7/8 ST	146.00
ZP154KCETE5965*	155000	12 3/4	208-230	3	57.1	7.5 x 7.5	22.21	11.73	12.93	1 3/4 RL	1 1/4 RL	146.00
ZP182KCETE5950*	183000	15 1/4	208-230	3	62.1	7.5 x 7.5	23.02	11.70	12.90	1 3/8 S	7/8 S	158.00
ZP182KCETE5965*	183000	15 1/4	208-230	3	62.1	7.5 x 7.5	23.02	11.70	12.90	1 3/8 S	7/8 S	158.00
ZP235KCETEC951*[1]	235000	19 1/2	208-230	3	82.4	10.5 x 10.5	29.00	14.80	16.80	1 5/8 S	1 3/8 S	120.00
ZP235KCETEC965*	23500	20	208-230	3	82.4	10.5 x 10.5	29.00	14.80	16.80	2 1/4 RL	1 RL	120.00
ZP236KCETE5951*[1]	236000	20	208-230	3	80.7	10.5 x 10.5	29.00	14.80	16.80	1 5/8 S	1 1/8 S	120.00
ZP285KCETEC951*[2]	278000	23 1/2	208-230	3	99.3	10.5 x 10.5	28.50	16.80	17.60	2 1/8 ST	1 3/8 ST	390.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZP295KCETEC965*[1]	294000	24	208-230	3	95.0	10.5 x 10.5	28.10	17.60	15.40	2 5/8 S	1 3/8 S	325.00
ZP296KCETE5951*[1]	298000	24 1/2	208-230	3	95.0	10.5 x 10.5	28.10	17.60	15.40	1 5/8 ST	1 1/8 ST	292.00
ZP296KCETE5966*[1]	298000	24 1/2	208-230	3	95.0	10.5 x 10.5	28.10	17.60	15.40	1 5/8 S	1 1/8 S	292.00
ZP385KCETE5951*[1]	385000	32	208-230	3	122.1	10.5 x 10.5	28.10	17.60	15.40	2 5/8 S	1 3/8 S	390.00
ZP385KCETEC966*[1]	385000	32	208-230	3	122.1	10.5 x 10.5	28.10	17.60	15.40	2 1/4 RL	1 3/4 RL	390.00
ZP485KCETED951*	48000	3	460	3	81.4	10.5 x 10.5	29.40	17.60	15.40	1 5/8 ST	1 3/8 ST	419.00
ZP67KCETFD930*	67000	5 1/2	460	3	11.8	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	88.00
ZP67KCETFD950*	67500	5 1/2	460	3	25.0	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	92.00
ZP72KCETFD950*	72000	6	460	3	12.5	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	152.00
ZP76KCETFD950*	77000	6 1/4	460	3	14.3	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	93.00
ZP83KCETFD950*	83000	6 3/4	460	3	13.6	7.5 x 7.5	17.40	9.90	9.70	7/8 S	1/2 S	92.00
ZP90KCETFD950*	90500	7 1/2	460	3	16.4	7.5 x 7.5	17.40	9.90	9.70	1 1/8 S	7/8 S	96.00
ZP91KCETFD950*	90500	7 1/2	460	3	14.3	7.5 x 7.5	17.40	9.90	9.70	7/8 S	3/4 S	90.00
ZP103KCETFD950*	105000	8 3/4	460	3	18.6	7.5 x 7.5	16.00	18.00	24.00	1 3/8 S	7/8 S	106.00
ZP104KCETFD950*	106000	8 3/4	460	3	16.4	7.5 x 7.5	24.00	18.00	16.00	1 1/8 S	7/8 S	106.00
ZP120KCETFD950*	121000	10	460	3	20.0	7.5 x 7.5	16.00	16.00	23.00	1 3/8 S	7/8 S	139.00
ZP122KCETFD950*	124000	10 1/2	460	3	17.9	7.5 x 7.5	18.00	18.00	24.00	1 7/8 S	7/8 S	107.00
ZP137KCETFD950*	137000	11 1/2	460	3	20.7	7.5 x 7.5	18.00	18.00	24.00	1 3/8 S	7/8 S	168.00
ZP154KCETED950*	155000	12 3/4	460	3	25.7	7.5 x 7.5	22.21	11.73	12.93	1 3/8 ST	7/8 ST	143.00
ZP154KCETED965*	155000	12 3/4	460	3	25.7	7.5 x 7.5	22.21	11.73	12.93	1 3/8 ST	7/8 ST	143.00
ZP154KCETFD855*	155000	12 3/4	460	3	25.0	7.5 x 7.5	22.21	11.73	12.93	1 3/8 S	7/8 S	146.00
ZP182KCETED950*	183000	15 1/4	460	3	30.0	7.5 x 7.5	23.02	11.70	12.90	1 3/8 S	7/8 S	158.00
ZP182KCETED965*	183000	15 1/4	460	3	30.0	7.5 x 7.5	23.02	11.70	12.90	1 3/8 ST	7/8 ST	146.00
ZP235KCETED951*[1]	235000	19 1/2	460	3	33.9	10.5 x 10.5	29.00	14.80	16.80	1 5/8 ST	1 3/8 ST	310.00
ZP235KCETED965*[1]	235000	19 1/2	460	3	33.9	10.5 x 10.5	29.00	14.80	16.80	1 5/8 S	1 3/8 S	120.00
ZP236KCETED951*[1]	238000	20	460	3	34.3	10.5 x 10.5	29.00	14.80	16.80	1 5/8 ST	1 1/8 ST	280.00
ZP285KCETED951*[2]	278000	23 1/2	460	3	47.9	10.5 x 10.5	28.50	16.80	17.60	2 1/8 ST	1 3/8 ST	391.00
ZP285KCETED965*[2]	278000	23 1/2	460	3	47.9	10.5 x 10.5	28.50	16.80	17.60	2 1/8 S	1 3/8 S	325.00
ZP295KCETED951*[1]	294000	24 1/2	460	3	46.7	10 x 10	28.10	17.60	15.40	1 5/8 ST	1 3/8 ST	353.00
ZP295KCETED965*[1]	294000	24 1/2	460	3	46.7	10.5 x 10.5	28.10	17.60	15.40	1 5/8 S	1 3/8 S	325.00
ZP296KCETED951*[1]	298000	24 1/2	460	3	42.1	10.5 x 10.5	28.10	17.60	15.40	1 5/8 ST	1 1/8 ST	292.00
ZP296KCETED966*[1]	298000	24 1/2	460	3	42.1	10.5 x 10.5	28.10	17.60	15.40	1 5/8 S	1 1/8 S	292.00
ZP385KCETED951*[1]	385000	32	460	3	60.7	10.5 x 10.5	28.10	17.60	15.40	2 1/4 RL	1 3/4 RL	390.00
ZP385KCETED966*[1]	385000	32	460	3	60.7	10.5 x 10.5	28.10	17.60	15.40	1 5/8 ST	1 3/8 ST	390.00

1 Rotalock Connections 2 Flange Connections

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCROLL COMPRESSOR



ZPS26K5EPFV800

ZPS SERIES, MODULATING, 1 1/2 TO 5 HP, R410A

The ZPSK5 two-step modulated Copeland Scroll™ compressors are ideally suited for residential and light commercial applications where a capacity step reduction and part load efficiency are important. The ZPSK5 compressor family is the second generation of Copeland Scroll UltraTech™. It has improved part load and full load performance versus the first generation of Copeland Scroll UltraTech, ZPSK4.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZPS26K5EPFV800*	26400	2 1/4	208-230	1	14.6	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	82.00
ZPS35K5EPFV800*	36800	3	208-230	1	20.0	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	72.00
ZPS40K5EPFV800*	41200	3 1/4	208-230	1	23.6	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	80.00
ZPS51K5EPFV800*	52000	4 1/4	208-230	1	30.0	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	92.00
ZPS60K5EPFV800*	60900	5	208-230	1	33.1	7.5 x 7.5	17.80	9.90	10.10	7/8 S	1/2 S	91.00
ZPS30K5ETF5800*	30600	2 1/2	208-230	3	12.9	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	80.00
ZPS35K5ETF5800*	35000	3	208-230	3	15.8	7.5 x 7.5	16.90	9.70	9.70	3/4 S	1/2 S	86.00
ZPS40K5ETF5800*	41200	3 1/4	208-230	3	15.6	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	80.00
ZPS49K5ETF5800*	49400	4	208-230	3	18.1	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	80.00
ZPS51K5ETF5800*	52100	4 1/4	208-230	3	18.4	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	92.00
ZPS60K5ETF5800*	60900	5	208-230	3	27.4	7.5 x 7.5	17.80	9.90	10.10	7/8 S	1/2 S	112.00
ZPS76KCETF5800*	76000	6 1/2	208-230	3	28.2	7.5 x 7.5	17.80	9.90	10.10	7/8 S	1/2 S	118.00
ZPS83KCETF5800*	83000	6 3/4	208-230	3	29.9	7.5 x 7.5	17.80	9.90	10.10	3/4 S	1/2 S	92.00
ZPS104KCETF5800*	10600	8 3/4	208-230	3	16.5	7.5 x 7.5	22.00	10.10	11.30	1 1/8 S	3/4 S	115.00
ZPS30K5ETFD800*	30600	2 1/2	460	3	6.4	7.5 x 7.5	15.30	9.70	9.70	3/4 S	1/2 S	80.00
ZPS40K5ETFD800*	41200	3 1/4	460	3	7.1	7.5 x 7.5	16.90	9.70	9.70	7/8 S	1/2 S	80.00
ZPS60K5ETFD800*	60900	5	460	3	9.5	7.5 x 7.5	17.80	9.90	10.10	7/8 S	1/2 S	75.00
ZPS104KCETFD800*	10600	10	460	3	36.2	7.5 x 7.5	22.00	10.10	11.30	1 1/8 S	3/4 S	115.00



ZPD34K5EPFJ830

DIGITAL, R410A

Stepless capacity modulation in air conditioning applications: flexible solution for R407C and R410A. In many cooling and heating systems, the load and the operating conditions vary over a wide range thus requiring the use of capacity modulation. Copeland scroll digital technology assures stepless modulation down to 10% of the nominal capacity, enabling precise temperature control, superior comfort and energy saving. Digital scroll compressors are the preferred choice for process cooling, refrigeration racks, refrigeration units, VRF, rooftop and air handling unit systems.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZPD34K5EPFJ830*	34600	2 3/4	265	1	17.9	7.5 x 7.5	17.70	9.60	9.60	7/8 S	1/2 S	50.00
ZPD42K5EPFV830*	42000	3 1/5	208-230	1	22.5	7.5 x 7.5	17.70	9.60	9.60	7/8 S	1/2 S	58.00
ZPD51K5EPFV830*	51500	4 1/4	208-230	1	28.6	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	62.00
ZPD34K5ETF5830*	34600	2 3/4	208-230	3	13.0	7.5 x 7.5	17.70	9.60	9.60	7/8 S	1/2 S	56.00
ZPD42K5ETF5830*	43000	3 1/5	208-230	3	17.9	7.5 x 7.5	17.70	9.60	9.60	3/4 S	1/2 S	75.00
ZPD51K5ETF5830*	51400	4 1/4	208-230	3	20.0	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	62.00
ZPD54K5EPFV830*	54000	4 1/2	208-230	3	28.6	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	68.00
ZPD54K5ETF5830*	54600	4 1/2	208-230	3	18.8	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	68.00
ZPD61KCETF5950*	63000	5 1/4	208-230	3	22.7	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	72.00
ZPD72KCETF5950*	72000	6	208-230	3	25.9	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	90.00
ZPD83KCETF5950*	82500	6 3/4	208-230	3	26.8	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	94.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZPD91KCETF5950*	90100	7 1/2	208-230	3	30.7	7.5 x 7.5	18.90	9.40	9.40	7/8 S	3/4 S	98.00
ZPD103KCETF5950*	105000	8 3/4	208-230	3	33.6	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	102.00
ZPD120KCETF5950*	123000	10 1/4	208-230	3	37.1	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	136.00
ZPD120KCETF5965*	12100	10	208-230	3	37.1	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	161.00
ZPD137KCETF5950*	137500	11 1/4	208-230	3	53.6	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	158.00
ZPD154KCETE5950*	155000	12 3/4	208-230	3	57.1	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	175.00
ZPD182KCETE5950*	183000	15 1/4	208-230	3	62.1	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	176.00
ZPD34K5ETFD830*	34600	2 3/4	460	3	6.9	7.5 x 7.5	17.70	9.60	9.60	7/8 S	1/2 S	56.00
ZPD42K5ETFD830*	42600	3 1/5	460	3	8.6	7.5 x 7.5	17.70	9.60	9.60	3/4 S	1/2 S	58.00
ZPD51K5ETFD830*	51000	4 1/4	460	3	8.6	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	62.00
ZPD54K5ETFD830*	54500	4 1/2	460	3	9.0	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	90.00
ZPD61KCETFD950*	62000	5	460	3	10.9	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	110.00
ZPD72KCETFD950*	71500	6	460	3	12.5	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	90.00
ZPD83KCETFD950*	83000	6 3/4	460	3	14.1	7.5 x 7.5	19.00	9.90	9.70	7/8 S	1/2 S	94.00
ZPD91KCETFD950*	90100	7 1/2	460	3	14.3	7.5 x 7.5	18.90	9.40	9.40	7/8 S	3/4 S	98.00
ZPD103KCETFD950*	105000	8 3/4	460	3	18.6	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	102.00
ZPD104KCETFD950*	10600	9	460	3	16.3	7.5 x 7.5	23.80	10.60	14.10	1 1/8 S	1 1/4 S	107.00
ZPD120KCETFD950*	123000	10 1/4	460	3	20.0	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	161.00
ZPD120KCETFD965*	12100	10	460	3	20.0	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	7/8 S	161.00
ZPD137KCETFD950*	137500	11 1/4	460	3	20.7	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	175.00
ZPD154KCETED950*	155000	12 3/4	460	3	25.7	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	175.00
ZPD182KCETED950*	183000	15 1/4	460	3	30.0	7.5 x 7.5	21.80	13.90	16.30	1 3/8 S	7/8 S	220.00
ZPD42K5ETFE830*	15250	3 1/2	575	3	5.6	7.5 x 7.5	18.40	9.30	9.30	7/8 S	1/2 S	58.00
ZPD103KCETFE950*	42100	8 3/4	575	3	13.6	7.5 x 7.5	23.80	10.60	14.10	1 3/8 S	3/8 S	134.00



ZRD61KCETF5950

DIGITAL, R407C, R22

Stepless capacity modulation in air conditioning applications: flexible solution for R407C and R410A. In many cooling and heating systems, the load and the operating conditions vary over a wide range thus requiring the use of capacity modulation. Copeland scroll digital technology assures stepless modulation down to 10% of the nominal capacity, enabling precise temperature control, superior comfort and energy saving. Digital scroll compressors are the preferred choice for process cooling, refrigeration racks, refrigeration units, VRF, rooftop and air handling unit systems.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZRD61KCETF5950*	59500	5	208-230	3	20.7	7.5 x 7.5	19.00	13.00	13.00	7/8 S	1/2 S	100.00
ZRD72KCETF5950*	70500	5 3/4	208-230	3	20.7	7.5 x 7.5	19.00	13.00	13.00	7/8 S	3/4 S	105.00
ZRD72KCETF5965*	70500	5 3/4	208-230	3	20.7	7.5 x 7.5	19.00	13.00	13.00	7/8 S	3/4 S	88.00
ZRD94KCETF5950*	92000	7 3/4	208-230	3	32.1	7.5 x 7.5	19.00	13.00	13.00	1 1/8 S	7/8 S	146.00
ZRD94KCETF5965*	9200	7 3/4	208-230	3	32.1	7.5 x 7.5	19.00	13.00	13.00	1.125 S	7/8 S	127.00
ZRD125KCETF5950*	127000	10 1/2	208-230	3	41.4	7.5 x 7.5	19.00	13.00	13.00	1 3/8 S	7/8 S	165.00
ZRD125KCETF5965*	127000	10 1/2	208-230	3	41.4	7.5 x 7.5	19.00	13.00	13.00	1 3/4 RL	1 1/4 RL	165.00
ZRD61KCETFD950*	59500	5	460	3	10.0	7.5 x 7.5	19.00	13.00	13.00	7/8 S	1/2 S	100.00
ZRD61KCETFD965*	59500	5	460	3	10.0	7.5 x 7.5	19.00	13.00	13.00	7/8 S	1/2 S	84.00
ZRD72KCETFD950*	70500	5 3/4	460	3	10.0	7.5 x 7.5	19.00	13.00	13.00	7/8 S	3/4 S	105.00
ZRD72KCETFD965*	70500	5 3/4	460	3	10.0	7.5 x 7.5	19.00	13.00	13.00	7/8 S	3/4 S	88.00
ZRD81KCE-TFD-950*	78000	6 1/2	460	3	12.1	7.5 x 7.5	19.00	13.00	13.00	7/8 S	3/4 S	89.00
ZRD94KCETFD950*	92000	7 3/4	460	3	16.4	7.5 x 7.5	19.00	13.00	13.00	1 1/8 S	7/8 S	145.00
ZRD94KCETFD965*	9200	7.75	460	3	16.4	7.5 x 7.5	19.00	13.00	13.00	1.125 S	7/8 S	127.00
ZRD125KCETFD950*	127000	10 1/2	460	3	19.2	7.5 x 7.5	19.00	13.00	13.00	1 3/8 S	7/8 S	165.00
ZRD125KCETFD965*	127000	10 1/2	460	3	19.2	7.5 x 7.5	19.00	13.00	13.00	1 3/4 RL	1 1/4 RL	165.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

uri.com

SCROLL COMPRESSOR



ZRT96K3EPFV930

TANDEM

Copeland Scroll tandems are designed to offer innovative, reliable, and high performing compressors for commercial air conditioning applications. Multiple compressors are connected with a manifold to achieve easy to control part-load performance

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZRT96K3EPFV930*	93000	8	208-230	1	N/A	21.5 x 7.5	18.40	11.20	24.30	1 1/8 S	3/4 S	136.00
ZRT122K3EPFV950*	116000	10	208-230	1	N/A	21.5 x 7.5	18.80	11.30	24.30	1 1/8 S	3/4 S	225.00
ZRT90KCETF5830*	90500	7 1/2	208-230	3	N/A	21.5 x 7.5	18.00	16.00	29.00	1 1/8 S	3/4 S	275.00
ZRT90KCETF5930*	90500	7 1/2	208-230	3	14.3	21.5 x 21.5	18.00	16.00	29.00	1 1/8 S	3/4 S	275.00
ZRT96K3ETF5930*	92500	8	208-230	3	16.4	21.5 x 7.5	18.40	11.20	24.30	1 1/8 S	3/4 S	136.00
ZRT96KCETF5930*	97000	8	208-230	3	16.4	21.5 x 7.5	18.80	11.30	24.30	1 1/8 S	3/4 S	201.00
ZRT108K3ETF5950*	107000	9	208-230	3	N/A	21.5 x 7.5	18.80	11.30	24.30	1 1/8 S	3/4 S	200.00
ZRT114K3ETF5950*	116000	9 1/2	208-230	3	14.3	21.5 x 7.5	18.80	11.30	24.30	1 7/8 S	3/4 S	224.00
ZRT122K3ETF5950*	122000	10	208-230	3	34.6	21.5 x 7.5	18.80	11.30	24.30	1 1/8 ST	3/4 ST	223.00
ZRT136KCETF5950*	132000	11	208-230	3	41.4	21.5 x 7.5	18.80	11.60	27.40	1 1/8 S	3/4 S	225.00
ZRT144KCETF5950*	137000	12	208-230	3	41.4	21.5 x 7.5	18.80	11.60	27.40	1 1/8 S	3/4 S	245.00
ZRT162KCETF5950*	154000	13 1/2	208-230	3	50.0	21.5 x 7.5	19.00	12.10	27.40	1 1/8 S	1 1/8 S	268.00
ZRT168KCETF5950*	168000	14	208-230	3	N/A	19.75 x 10	19.00	12.10	27.40	1 5/8 ST	1 3/8 ST	270.30
ZRT188KCETF5950*	188000	15.5	208-230	3	N/A	19.75 x 10	19.00	12.10	27.40	1 5/8 S	1 3/8 S	270.30
ZRT216KCETF5950*	209000	18	208-230	3	N/A	19.8 x 10	22.70	15.70	29.80	1 5/8 S	1 3/8 S	283.00
ZRT250KCETF5950*	250000	20	208-230	3	33.25	19.75 x 10	22.70	15.70	29.80	1 5/8 ST	1 3/8 ST	289.00
ZRT288KCETF5975*	288000	24	208-230	3	94.2	19.75 x 10	22.70	15.70	29.80	1 5/8 S	1 3/8 S	322.00
ZRT320KCETE5976*	307000	25	208-230	3	43.6	19.75 x 10	23.50	17.30	29.80	1 5/8 S	1 3/8 S	530.00
ZRT380KCETE5976*	361000	30	208-230	3	N/A	19.8 x 10	23.50	17.30	29.80	1 5/8 S	1 3/8 S	292.00
ZRT500KCETE5951*	471000	40	208-230	3	69.3	30.55 x 10.47	29.50	21.60	41.40	2 5/8 S	1 5/8 S	680.00
ZRT90KCETFD830*	90500	7 1/2	460	3	N/A	21.5 x 7.5	18.00	16.00	29.00	1 1/8 S	3/4 S	275.00
ZRT96K3ETFD930*	97000	8	460	3	7.9	21.5 x 7.5	18.40	11.20	24.30	1 1/8 S	3/4 S	136.00
ZRT96KCETFD930*	93000	8	460	3	N/A	21.5 x 7.5	18.80	11.30	24.30	1 1/8 S	3/4 S	136.00
ZRT108K3ETFD950*	107000	9	460	3	15.5	21.5 x 7.5	18.80	11.30	24.30	1 1/8 S	3/4 S	200.00
ZRT114K3ETFD950*	116000	9 1/2	460	3	14.3	21.5 x 7.5	18.80	11.30	24.30	1 7/8 S	3/4 S	224.00
ZRT122K3ETFD950*	122000	10	460	3	N/A	21.5 x 7.5	18.80	11.30	24.30	1 1/8 ST	3/4 ST	223.00
ZRT136KCETFD950*	132000	11	460	3	20.0	21.5 x 7.5	18.80	11.60	27.40	1 1/8 S	3/4 S	225.00
ZRT144KCETFD950*	137000	12	460	3	20.0	21.5 x 7.5	18.80	11.60	27.40	1 1/8 S	3/4 S	245.00
ZRT162KCETFD950*	154000	13 1/2	460	3	24.2	21.5 x 7.5	19.00	12.10	27.40	1 1/8 S	1 1/8 S	268.00
ZRT188KCETFD950*	188000	15.5	460	3	19.5	19.75 x 10	19.00	12.10	27.40	1 5/8 ST	1 3/8 ST	268.30
ZRT216KCETFD950*	209000	18	460	3	N/A	19.8 x 10	22.70	15.70	29.80	1 5/8 S	1 3/8 S	283.00
ZRT250KCETFD950*	250000	20	460	3	33.25	19.75 x 10	22.70	15.70	29.80	1 5/8 ST	1 3/8 ST	289.00
ZRT250KCETFD975*	250000	20	460	3	35.8	19.75 x 10	22.70	15.70	29.80	1 5/8 S	1 3/8 S	289.00
ZRT288KCETFD950*	288000	24	460	3	47.2	19.75 x 10	22.70	15.70	29.80	1 5/8 S	1 3/8 S	322.00
ZRT320KCETED976*	307000	30	460	3	32.7	19.75 x 10	23.50	17.30	29.80	1 5/8 S	1 3/8 S	530.00
ZRT380KCETED976*	380000	30	460	3	43.6	10 x 23.8	23.50	17.30	29.80	1 5/8 ST	1 3/8 ST	292.00
ZRT500KCETED951*	471000	40	460	3	69.3	30.55 x 10.47	29.50	21.60	41.40	2 5/8 S	1 5/8 S	658.00
ZRT600KCETED951*	580000	50	460	3	85.8	30.57 x 10.5	29.50	21.60	41.40	3 1/8 S	1 5/8 S	863.00
ZRT760KCETED951*	740000	60	460	3	N/A	30.58 x 10.5	29.40	22.70	42.20	3 1/8 S	1 5/8 S	825.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



ZRDT12MCETF5950

TANDEM, R410A

Copeland Scroll tandems are designed to offer innovative, reliable, and high performing compressors for commercial air conditioning applications. Multiple compressors are connected with a manifold to achieve easy to control part-load performance

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZRDT12MCETF5950*	115000	9 1/2	208-230	3	21.5 x 7.5	20.50	11.70	24.70	1 1/8 S	3/4 S	127.00
ZRDT14MCETF5950*	136000	11	208-230	3	21.5 x 7.5	20.50	11.70	24.70	1 1/8 S	3/4 S	127.00



ZPDT12MCETF5950

TANDEM, DIGITAL, R410A

Copeland Scroll Digital tandems are designed to offer innovative, reliable, and high performing compressors for commercial air conditioning applications. Multiple compressors are connected with a manifold to achieve varying stages of capacity.

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZPDT12MCETF5950*	123500	10 1/4	208-230	3	21.5 x 7.5	20.82	11.60	24.60	1 1/8 S	3/4 S	217.00
ZPDT18MCETF5950*	179000	14 3/4	208-230	3	21.5 x 7.5	22.70	15.80	30.60	1 1/8 S	1 1/8 S	217.00
ZPDT27MCETF5975*	270000	22 1/2	208-230	3	19.75 x 10	22.70	15.80	30.60	1 5/8 S	1 3/8 S	828.00
ZPDT36MCE-TE5-943*	364000	30	208-230	3	19.8 x 10	23.50	17.29	29.37	1 5/8 S	1 3/8 S	292.00
ZPDT18MCETFD950*	179000	14 3/4	460	3	21.5 x 7.5	20.82	12.10	24.70	1 1/8 S	1 1/8 S	217.00
ZPDT36MCE-TED-976*	364000	30	460	3	19.8 x 10	21.00	22.00	38.00	15/8 Stub	18/8 Stub	345.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCROLL COMPRESSOR



ZR16K5EPFJ800

ZR SERIES, 1 1/2 TO 25 HP, R407C R22

Copeland ZR R407C and R134a scroll compressors for air conditioning are designed for high efficiency and reliability in air conditioning, comfort and process cooling applications, with evaporating temperatures around +5 °C. Features such as brazed fitting connections, tandemization and multiple refrigerant capability provide for the needs of a more demanding market.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZR16K5EPFJ800*	15500	1 1/2	265	1	8.9	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR18K5EPFJ800*	18000	1 1/2	265	1	8.9	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR21K5EPFJ800*	21000	1 3/4	265	1	10.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR25K5EPFJ800*	25300	2	265	1	12.1	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR28K5EPFJ800*	28400	2 1/4	265	1	13.9	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR32K5EPFJ800*	32600	2 1/2	265	1	14.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR38K5EPFJ800*	38000	3 1/2	265	1	16.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR42K5EPFJ800*	42200	3 1/2	265	1	19.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR16K5EPFV800*	15500	1 1/2	208-230	1	9.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR18K5EPFV800*	18000	1 1/2	208-230	1	10.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR21K5EPFV800*	21000	1 3/4	208-230	1	12.0	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR25K5EPFV800*	25300	2	208-230	1	15.0	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR28K5EPFV800*	28400	2 1/4	208-230	1	15.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR32K5EPFV800*	32600	2 1/2	208-230	1	17.1	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR38K5EPFV800*	38000	3 1/2	208-230	1	21.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR42K5EPFV800*	42200	3 1/2	208-230	1	22.1	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR48K5EPFV800*	48200	3 3/4	208-230	1	24.3	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR54K5EPFV800*	53500	4 1/2	208-230	1	28.2	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR61K3EPFV930*	62000	5	208-230	1	32.1	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR21K5ETF5800*	21000	1.75	208-230	3	8.6	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR25K5ETF5800*	25300	2	208-230	3	8.9	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR28K5ETF5800*	28400	2 1/4	208-230	3	11.1	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR32K5ETF5800*	32600	2 3/4	208-230	3	12.0	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR38K5ETF5800*	38000	3 1/2	208-230	3	13.6	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR42K5ETF5800*	42200	3 1/2	208-230	3	14.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR48K5ETF5800*	48200	3 3/4	208-230	3	17.1	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR54K5ETF5800*	53500	4 1/2	208-230	3	17.1	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR57K3ETF5930*	58500	4 1/2	208-230	3	19.3	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	87.00
ZR61K3ETF5965*	62000	5	208-230	3	19.3	7.5 x 7.5	17.00	12.00	12.00	7/8 ST	1/2 ST	84.00
ZR108KCETF5965*	108000	9	208-230	3	33.6	7.5 x 7.5	24.00	17.00	18.00	1 3/8 S	7/8 S	151.00
ZR21K5ETFD800*	21000	1.75	460	3	4.3	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.00
ZR25K5ETFD800*	25300	2	460	3	4.6	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	53.51
ZR28K5ETFD800*	28400	2 1/4	460	3	5.7	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	50.30
ZR32K5ETFD800*	32600	2 3/4	460	3	6.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	55.16
ZR38K5ETFD800*	38000	3 1/2	460	3	6.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR42K5ETFD800*	42200	3 1/2	460	3	6.4	7.5 x 7.5	17.00	12.00	12.00	3/4 S	1/2 S	66.00
ZR48K5ETFD800*	48200	3 3/4	460	3	7.9	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR54K5ETFD800*	53500	4 1/2	460	3	7.9	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR61K3ETFD950*	62000	5	460	3	9.1	7.5 x 7.5	18.00	14.00	14.00	7/8 ST	1/2 ST	84.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ZR61KCETF5950

ZR SERIES, R22

Copeland ZR R407C and R134a scroll compressors for air conditioning are designed for high efficiency and reliability in air conditioning, comfort and process cooling applications, with evaporating temperatures around +5 °C. Features such as brazed fitting connections, tandemization and multiple refrigerant capability provide for the needs of a more demanding market.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ZR61KCETF5950*	61000	5	200-230	3	20.7	7.5 x 7.5	17.75	9.69	9.69	7/8	1/2	87.00
ZR61KCEPFV930*	61000	5	208-230	1	30.1	7.5 x 7.5	20.20	13.30	14.80	7/8	1/2	72.00
ZR61KCEPFV950*	61000	5	208-230	1	30.1	7.5 x 7.5	20.20	13.30	14.80	7/8	1/2	72.00
ZR68KCEPFV950*	69500	5 1/2	208-230	1	32.1	7.5 x 7.5	20.00	14.00	15.00	7/8 S	1/2 S	96.00
ZR61KCETF5960*	62000	5	208-230	3	16.7	7.5 x 7.5	17.00	12.00	12.00	7/8 S	1/2 S	72.00
ZR68KCETF5930*	70000	5 1/2	208-230	3	20.7	7.5 x 7.5	20.00	15.00	14.00	7/8 S	1/2 S	96.00
ZR72KCETF5950*	73500	6	208-230	3	20.7	7.5 x 7.5	20.00	14.00	16.00	7/8 S	1/2 S	92.00
ZR81KCETF5950*	82000	7	208-230	3	25.0	7.5 x 7.5	16.00	18.00	19.00	7/8 S	3/4 S	89.00
ZR84KCETF5950*	84000	7	208-230	3	28.6	7.5 x 7.5	20.00	14.00	16.00	1 1/8 S	7/8 S	150.00
ZR94KCETF5950*	95600	7 1/2	208-230	3	32.1	7.5 x 7.5	20.00	14.00	16.00	1 1/8 S	7/8 S	150.00
ZR108KCETF5950*	108000	9	208-230	3	33.6	7.5 x 7.5	24.00	17.00	18.00	1 3/8 S	7/8 S	151.00
ZR125KCETF5950*	125000	10	208-230	3	41.4	7.5 x 7.5	19.00	13.00	13.00	1 3/8 S	7/8 S	161.00
ZR125KCETF5965*	125000	10	208-230	3	42.0	7.5 x 7.5	24.00	17.00	18.00	1 3/8 ST	7/8 ST	135.00
ZR144KCETF5950*	144000	12	208-230	3	47.1	7.5 x 7.5	26.00	19.00	19.00	1 3/8 S	7/8 S	175.00
ZR160KCETE5950*	154000	12 1/4	208-230	3	55.0	7.5 x 7.5	21.70	12.90	11.70	1 3/8 S	7/8 S	185.00
ZR160KCETE5965*	154000	12 1/4	208-230	3	55.0	7.5 x 7.5	21.70	12.90	11.70	1 3/4 RL	1 1/4 RL	185.00
ZR190KCETE5950*	181000	15	208-230	3	60.0	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	146.00
ZR190KCETE5965*	181000	15	208-230	3	60.0	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	146.00
ZR250KCETE5965*[1]	250000	20	208-230	3	81.4	10.5 x 10.5	29.00	19.00	19.00	2 1/4 RL	1 3/4 RL	308.00
ZR250KCETEC965*[1]	250000	20	208-230	3	81.4	10.5 x 10.5	22.00	17.00	17.00	2 1/4 RL	1 3/4 RL	308.00
ZR300KCETEC965*[2]	293000	25	208-230	3	100.0	10.5 x 10.5	22.00	17.00	17.00	2 1/4 RL	1 3/4 RL	329.00
ZR380KCETE5965*[1]	363000	30	208-230	3	121.4	10.5 x 10.5	22.00	22.00	24.22	2 1/4 RL	1 3/4 RL	390.00
ZR380KCETEC965*[1]	363000	30	208-230	3	59.3	10.5 x 10.5	22.00	22.00	24.22	2 1/4 RL	1 3/4 RL	390.00
ZR68KCETFD930*	70000	5 1/2	460	3	10.0	7.5 x 7.5	20.00	15.00	14.00	7/8 S	1/2 S	86.00
ZR72KCETFD950*	73500	6	460	3	10.0	7.5 x 7.5	20.00	14.00	16.00	7/8 S	1/2 S	92.00
ZR72KCETFD965*	73500	6	460	3	10.0	7.5 x 7.5	24.00	17.00	18.00	1 1/4 RL	1 RL	87.00
ZR84KCETFD950*	84000	7	460	3	14.2	7.5 x 7.5	24.00	17.00	18.00	1 1/8 ST	7/8 ST	126.00
ZR94KCETFD950*	95600	7 1/2	460	3	16.4	7.5 x 7.5	24.00	17.00	18.00	1 1/8 S	7/8 S	151.00
ZR94KCETFD965*	95600	7 1/2	460	3	16.4	7.5 x 7.5	24.00	17.00	18.00	1 3/4 RL	1 1/4 RL	151.00
ZR108KCETFD950*	108000	9	460	3	17.3	7.5 x 7.5	24.00	17.00	18.00	1 3/8 S	7/8 S	151.00
ZR108KCETFD965*	108000	9	460	3	17.3	7.5 x 7.5	24.00	17.00	18.00	1 3/8 ST	7/8 ST	132.00
ZR125KCETFD950*	125000	10	460	3	19.2	7.5 x 7.5	19.00	13.00	13.00	1 3/8 S	7/8 S	161.00
ZR125KCETFD965*	125000	10	460	3	19.2	7.5 x 7.5	21.00	11.10	11.20	1 3/4 RL	1 1/4 RL	135.00
ZR144KCETFD950*	144000	12	460	3	19.6	7.5 x 7.5	26.00	16.00	19.00	1 3/8 S	7/8 S	175.00
ZR144KCETFD965*	144000	12	460	3	17.5	7.5 x 7.5	26.00	16.00	19.00	1 3/4 RL	1 1/4 RL	175.00
ZR160KCETED950*	154000	12 1/4	460	3	25.7	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	143.00
ZR160KCETED965*	154000	12 1/4	460	3	25.7	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	143.00
ZR190KCETED950*	181000	15	460	3	31.4	7.5 x 7.5	21.70	12.90	11.70	1 3/8 S	7/8 S	249.00
ZR190KCETED965*	181000	15	460	3	31.4	7.5 x 7.5	21.70	12.90	11.70	1 3/8 ST	7/8 ST	143.00
ZR250KCETED951*[1]	250000	20	460	3	37.9	10.5 x 10.5	24.00	18.00	22.00	1 5/8 S	1 3/8 S	308.00
ZR250KCETED965*[1]	250000	20	460	3	37.9	10.5 x 10.5	24.00	18.00	22.00	2 1/4 RL	1 3/4 RL	308.00
ZR300KCETED951*[2]	293000	25	460	3	48.6	10.5 x 10.5	22.00	22.00	24.00	2 1/8 S	1 3/8 S	406.00
ZR300KCETED965*[2]	296000	25	460	3	48.6	10.5 x 10.5	22.00	22.00	24.00	2 1/4 RL	1 3/4 RL	250.00
ZR380KCETED965*[1]	363000	30	460	3	59.3	10.5 x 10.5	21.70	12.90	11.70	2 1/4 RL	1 3/4 RL	390.00
ZR108KCETFE950*	108000	9	575	3	13.5	7.5 x 7.5	24.00	17.00	18.00	1 3/8 ST	7/8 ST	131.00

1 Rotalock Connections 2 Flange Connections

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR


AFE13C4UIAA901

AF SERIES, R290

The A*E platform extends from 1/8 - 1/2 HP (1000 Btu/hr to 4600 Btu/hr). Engineered to address both current and future challenges of Foodservice, Food Retail, Industrial, and Environmental/ Medical industries. The A*E provides unmatched benefits, improving total cost of ownership and customer value. A*E are used in a variety of commercial applications such as: vertical freezers, island coolers, bottle coolers, vending machines, display cases, traditional reach-ins, and ice machines, etc.The newest models also feature patented technology to improve liquid handling and help achieve industry leading performance as detailed below. The end result is the best hermetic compressor in this size for refrigeration applications.

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AFE13C4UIAA901*	1/3	115	1	6.0	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	23.00
AFE15C5UIAA901*	1/2	115	1	6.0	6.7 x 4	8.10	6.90	10.50	5/16 S	1/4 S	22.00
AFE16C4UCAA901*	1/2	115	1	7.5	6.7 x 4	8.10	6.90	10.50	5/16 S	1/4 S	24.00
AFE16C4UIAA901*	1/2	115	1	7.5	6.7 x 4	8.10	6.90	10.50	5/16 S	1/4 S	24.00
AFE20C5UCAA901*	1/2	115	1	6.8	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	24.00
AFE20C5UIAA901*	1/2	115	1	6.8	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	24.00
AFE25C5UCAA901*	3/4	115	1	7.1	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	25.00
AFE25C5UCAV901*	3/4	208-230	1	4.4	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	25.00
AFE29C5UCFA901*	3/4	115	1	7.8	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	25.00
AFE29C5UCFV901*	3/4	208-230	1	4.4	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	26.00


AFE05C4EIAA901

AFE SERIES

The A*E platform extends from 1/8 - 1/2 HP (1000 Btu/hr to 4600 Btu/hr). Engineered to address both current and future challenges of Foodservice, Food Retail, Industrial, and Environmental/ Medical industries. The A*E provides unmatched benefits, improving total cost of ownership and customer value. A*E are used in a variety of commercial applications such as: vertical freezers, island coolers, bottle coolers, vending machines, display cases, traditional reach-ins, and ice machines, etc.The newest models also feature patented technology to improve liquid handling and help achieve industry leading performance as detailed below. The end result is the best hermetic compressor in this size for refrigeration applications.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AFE05C4EIAA901*	584	1/5	115	1	3.7	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	42.10
AFE08C4EIAA901*	872	1/4	115	1	3.9	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	22.90
AFE11C4EIAA901*	1100	1/3	115	1	4.2	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	35.00
AFE12C4EIAA901*	1200	1/3	115	1	6.4	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	40.00
AFE12C4EIAA959*	1200	1/3	115	1	6.4	6.7 x 4	7.40	6.40	10.50	3/8 V	1/4 S	35.00
AFE14C5EIAA901*	1400	1/2	115	1	6.0	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	35.00
AFE17C4EIAA901*	1700	1/2	115	1	7.8	6.7 x 4	8.10	6.90	10.50	5/16 S	1/4 S	26.76
AFE20C5EIAA901*	2000	1/3	115	1	6.3	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	32.00
AFE23C5ECAA901*	2300	1/3	115	1	7.5	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	25.00
AFE14C5EIAV901*	1400	1/2	208-230	1	3.0	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	36.00
AFE20C5EIAV901*	2000	1/3	208-230	1	4.3	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	24.00
AFE26C5ECAV901*	2600	1/2	208-230	1	4.7	6.7 x 4	8.20	6.40	10.50	5/16 S	1/4 S	25.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


AFF08C1EIAA901

AFF SERIES

The A*E platform extends from 1/8 - 1/2 HP (1000 Btu/hr to 4600 Btu/hr). Engineered to address both current and future challenges of Foodservice, Food Retail, Industrial, and Environmental/ Medical industries. The A*E provides unmatched benefits, improving total cost of ownership and customer value. A*E are used in a variety of commercial applications such as: vertical freezers, island coolers, bottle coolers, vending machines, display cases, traditional reach-ins, and ice machines, etc.The newest models also feature patented technology to improve liquid handling and help achieve industry leading performance as detailed below. The end result is the best hermetic compressor in this size for refrigeration applications.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AFF08C1EIAA901*	800	1/4	115	1	8.1	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	23.00
AFF07C1EIAA901*	2540	1/4	115	1	4.2	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	32.00
AFF10C1EIAA901*	2540	1/3	115	1	3.4	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	33.00
AFF10C1UIAA901*	2540	1/5	115	1	8.5	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	22.00
AFF12C1UIAA901*	2750	1/3	115	1	8.5	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	22.00
AFF12C1UIA3901*	2750	1/3	220	1	2.6	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	22.00
AFF10C1UIAI901*	2540	1/5	208-230	1	2.2	6.7 x 4	7.90	6.80	11.20	5/16 S	1/4 S	22.00


ARE13C4EIAA901

AR, RR SERIES, R134A

- Suitable for applications 0°F to +55°F SST
- Charged with POE oil
- Capacity rated models: 45°F evap / 130°F condensing / 65°F return gas / 130°F liquid or 20°F evap / 120°F condensing / 65°F return gas / 120°F liquid
- 901: Electrical components and mounting parts included
- 959: Electrical components, mounting parts plus suction service valve

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ARE13C4EIAA901*	1300	1/6	115	1	3.8	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	25.00
ARE17C4EIAA901*	1700	1/5	115	1	3.8	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	25.00
ARE25C5EIAA901*	3590	1/4	115	1	4.3	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	32.00
ARE34C4EIAA901*	3400	1/4	115	1	4.6	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	40.00
ARE35C5EIAA901*	3590	1/3	115	1	6.9	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	35.00
ARE35C5EIAA959*	3590	1/3	115	1	6.9	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	36.00
ARE42C5EIAA901*	4580	1/2	115	1	7.8	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	36.00
ARE51C4ECAA901*	5520	1/2	115	1	10.5	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	22.50
ARE35C5EIAI901*	3590	1/3	208-230	1	4.9	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	35.00
ARE35C5EIAI959*	3590	1/3	208-230	1	3.0	6.7 x 4	11.00	14.00	9.00	5/16 S	1/4 S	35.00
ARE48C5EIAI901*	4800	1/2	208-230	1	5.0	6.7 x 4	9.00	12.00	16.00	5/16 S	1/4 S	25.00
ARE51C4EIAV901*	5520	1/2	208-230	1	4.9	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	40.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR


ASE12C4EIAA901

AS SERIES, R404A

- Charged with POE oil
- Capacity rated: +20°F evaporator / 120°F condensing / 40°F return gas / 120°F liquid
- 901: Electrical components and mounting parts included
- 959: Electrical components, mounting parts plus suction service valve

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ASE12C4EIAA901*	1/5	115	1	3.9	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	25.00
ASE24C5EIAA901*	1/3	115	1	6.2	6.7 x 4	7.90	6.40	10.50	5/16 S	1/4 S	32.00
ASE32C5ECAA901*	1/2	115	1	7.5	6.7 x 4	8.10	6.90	10.30	5/16 S	1/4 S	42.00
ASE32C5ECAA959*	1/2	115	1	7.5	6.7 x 4	8.10	6.90	10.30	5/16 S	1/4 S	42.00
ASE35C4ECAA901*	1/2	115	1	12.0	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	39.00
ASE39C5EIAA901*	1/2	115	1	10.0	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	42.00
ASE24C5EIAI901*	1/3	208-230	1	3.3	6.7 x 4	7.90	6.40	10.50	5/16 S	1/4 S	38.00
ASE32C5ECAV901*	1/2	208-230	1	4.5	6.7 x 4	8.10	6.90	10.30	5/16 S	1/4 S	46.00
ASE39C5ECAV901*	1/2	208-230	1	5.7	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	25.00


ASE12C4IAA901

AS SERIES, R22

- Suitable for applications 0°F to +55°F SST
- Capacity rated models: 45°F evap / 130°F condensing / 65°F return gas / 130°F liquid or 20°F evap / 120°F condensing / 65°F return gas / 120°F liquid
- ASE26C4E charged with POE oil and suitable for R407C and R22 applications
- 901: Electrical components and mounting parts included
- 959: Electrical components, mounting parts plus suction service valve

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ASE12C4IAA901*	1230	1/5	115	1	4.1	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	40.00
ASE20C4IAA901*	2090	1/3	115	1	5.2	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	25.00
ASE20C4IAA959*	2090	1/3	115	1	5.2	6.7 x 4	14.00	11.00	11.00	3/8 V	1/4 S	40.00
ASE26C4ECAA901*	2720	1/3	115	1	7.5	6.7 x 4	7.90	6.40	10.50	5/16 S	1/4 S	40.00
ASE35C4CAA901*	3430	1/2	115	1	12.0	6.7 x 4	14.00	11.00	11.00	5/16 S	1/4 S	40.00
ASE35C4CAA959*	3430	1/2	115	1	12.0	6.7 x 4	14.00	11.00	11.00	3/8 V	1/4 S	40.00
ASE35C4IAV901*	3430	1/2	208-230	1	5.9	6.7 x 4	14.00	11.00	11.11	5/16 S	1/4 S	40.00
ASE35C4IAV959*	3430	1/2	208-230	1	5.9	6.7 x 4	14.00	11.00	11.00	3/8 V	1/4 S	25.60

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ASE21C5UIAA901

ASE SERIES, R290

- 30% more EER compared t legacy platform
- Best in class sound level
- Multi-refrigerant approved

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ASE21C5UIAA901*	2100	1/3	115	1	5.0	6.7 x 4	7.40	6.40	10.50	5/16 S	1/4 S	22.00
ASE32C4UIAA901*	3200	1/3	115	1	10.0	6.7 x 4	8.10	6.90	10.30	5/16 S	1/4 S	25.00
ASE37C5UCAA901*	3700	1/2	115	1	7.2	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	25.00
ASE37C5UIAA901*	3700	1/2	115	1	7.2	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	25.00
ASE39C5UCAA901*	3900	3/4	115	1	9.3	6.7 x 4	8.10	6.40	10.50	5/16 S	1/4 S	25.00


ASM09C1URAA901

ASM SERIES, R290

- Extended Medium temp applications
- Charged with POE oil
- 901 Suffix: Electrical components and mouting parts included

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
ASM09C1URAA901*	878	1/4	115	1	2.0	6.7 x 4	6.70	6.10	10.70	5/16 S	1/4 S	15.00
ASM12C1URAA901*	1265	1/3	115	1	2.7	6.7 x 4	6.70	6.40	10.70	5/16 S	1/4 S	15.00
ASM16C1URAA901*	1710	1/2	115	1	2.8	6.7 x 4	6.70	6.40	10.70	5/16 S	1/4 S	15.00
ASM19C1URAA901*	1880	1/2	115	1	4.2	6.7 x 4	6.70	6.40	10.70	5/16 S	1/4 S	15.00
ASM22C1URAA901*	2170	3/4	115	1	4.8	6.7 x 4	6.70	6.40	10.70	5/16 S	1/4 S	15.00
ASM27C1URAA901*	2630	3/4	115	1	5.1	6.7 x 4	6.70	6.40	10.50	5/16 S	1/4 S	15.00
ASM31C1URAA901*	3110	3/4	115	1	6.7	6.7 x 4	6.70	6.40	10.50	5/16 S	1/4 S	17.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



CF04K6EPFV945

CF SERIES, R404A

- Suitable for applications -30°F to 10°F evaporator temperature
- Charged with POE oil
- Capacity rated: -10°F evaporator / 120°F condensing / 40°F return gas / 120°F liquid
- Mounting dimensions: 7.5" x 7.5"
- 945: Starting components (1?) included plus crankcase heater, mounting parts, sweat connections, terminal cover; run capacitor required for single phase

COPELAND

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
CF04K6EPFV945*	1 1/2	208-230	1	11.4	7.5 x 7.5	13.30	9.70	10.20	3/4 S	1/2 S	80.00
CF06K6ETFD945*	2	460	3	3.7	7.5 x 7.5	13.30	9.70	10.20	3/4 S	1/2 S	80.00
CF06K6EPFV945*	2	208-230	1	11.4	7.5 x 7.5	13.30	9.70	10.20	3/4 S	1/2 S	80.00
CF09K6EPFV945*	2 1/2	208-230	1	16.7	7.5 x 7.5	13.80	9.70	10.20	3/4 S	1/2 S	80.00
CF12K6EPFV245*	3	208-230	3	20.5	7.5 x 7.5	14.00	13.00	17.00	3/4 S	1/2 S	84.00
CF12K6EPFV945*	3	208-230	1	20.5	7.5 x 7.5	14.00	13.00	17.00	3/4 S	1/2 S	84.00
CF04K6ETF5945*	1 1/2	208-230	3	7.0	7.5 x 7.5	13.30	9.70	10.20	3/4 S	1/2 S	80.00
CF06K6ETF5945*	2	208-230	3	7.0	7.5 x 7.5	13.30	9.70	10.20	3/4 S	1/2 S	64.00
CF09K6ETF5945*	2 1/2	208-230	3	10.2	7.5 x 7.5	13.80	9.70	10.20	3/4 S	1/2 S	80.00
CF12K6ETF5945*	3	208-230	3	12.3	7.5 x 7.5	14.00	13.00	17.00	3/4 S	1/2 S	84.00
CF09K6ETFD945*	2 1/2	460	3	5.5	7.5 x 7.5	13.80	9.70	10.20	3/4 S	1/2 S	80.00
CF12K6ETFD945*	3	460	3	6.6	7.5 x 7.5	14.00	13.00	17.00	3/4 S	1/2 S	84.00



CR16K6EPFV925

CR SERIES, R22

- Suitable for applications 0°F to 45°F SST
- Typically used for air conditioning applications
- K6E, KQE models are charged with polyol ester oil and are suitable for R22/R407C applications
- Capacity rated: 45°F evaporator; 130°F condensing
- 875: Crankcase heater, mounting parts, screw terminals (? 4 HP) or terminal flag kit (? 3 1/2 HP), sweat connections, terminal cover
- 970: Sweat

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
CR16K6EPFV925*	13500	1 1/2	208-230	1	9.0	7.5 x 7.5	20.00	12.00	12.00	3/4 S	1/2 S	69.00
CR32K6EPFV925*	29300	2 3/4	208-230	1	16.1	7.5 x 7.5	20.00	12.00	12.00	3/4 S	1/2 S	72.00
CR47KQEPFV970*	47200	3 1/2	208-230	1	24.6	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CR53KQEPFV970*	53300	4	208-230	1	29.0	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CR47KQETF5970*	47200	3 1/2	208-230	3	16.0	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CR53KQETF5970*	53200	4	208-230	3	18.0	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CR47KQETFD970*	47200	3 1/2	460	3	8.2	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CR53KQETFD970*	53200	4	460	3	9.1	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
CRPQ045EPFV970*	54600	4 1/2	208-230	1	30.7	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	70.00
CRNQ050EPFV970*	53200	5	208-230	1	34.3	7.5 x 7.5	20.00	12.00	12.00	RL	1/2	70.00
CRNQ050ETF5970*	53200	5	208-230	3	21.4	7.5 x 7.5	20.00	12.00	12.00	RL	1/2	86.00
CRNQ050ETFD970*	53200	5	460	3	9.6	7.5 x 7.5	20.00	12.00	12.00	RL	1/2	86.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


RFT22C1EIAA901

RFT SERIES

The R*T platform extends from 1/2 - 1 1/4 HP (3600 Btu/hr to 10000 Btu/hr) capacity. Engineered to address both current and future challenges of Foodservice, Food Retail, Industrial, and Environmental/Medical industries. The R*T covers most commercial applications such as traditional reach-ins, ice machines, walk ins etc. The R*T provides unmatched benefits, improving total cost of ownership and customer value. The newest models also feature patented technology to improve liquid handling and help achieve industry leading performance as detailed below. The end result is the best hermetic compressor in this size for refrigeration applications.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RFT22C1EIAA901*	2200	1/2	115	1	7.9	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT18C1EPFA959*	1800	1/2	115	1	9.6	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	45.00
RFT26C1ECFA901*	2600	2/3	115	1	10.8	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT26C1ECFA959*	2600	2/3	115	1	10.7	8 x 4.8	14.00	11.00	11.00	3/8 ST	1/4 ST	37.00
RFT29C1ECFA901*	2900	3/4	115	1	10.4	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT42C1EPFA901*	4200	3/4	115	1	15.5	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	50.00
RFT22C1ECAV901*	2200	1/2	208-230	1	5.2	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT26C1ECAV901*	2600	1/2	208-230	1	6.4	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT29C1ECAV901*	2900	2/3	208-230	1	5.8	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	40.00
RFT42C1EPFV901*	4200	3/4	208-230	1	8.0	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	50.00
RFT42C1EPFV959*	4200	3/4	208-230	1	8.0	8 x 4.8	14.00	10.00	10.00	3/8 V	1/4 S	39.00
RFT32C1ECAV901*	3200	1	208-230	1	5.8	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	39.70


RFT37C1UCFA901

RFT SERIES, R290

- Suction Gas Management
- High Flow Valving
- High efficiency motors
- Suction Muffler
- Discharge System
- Suspension design
- Robust Gaskets
- Reduced sound levels
- Superior liquid handling capabilities
- Multi-refrigerant approved

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RFT37C1UCFA901*	3700	1/2	115	1	12.5	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	41.00
RFT30C1UCAA901*	3000	3/4	115	1	9.6	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	39.00
RFT22C1UIAV901*	2200	3/4	208-230	1	4.8	8 x 4.8	14.00	11.00	11.00	5/16 S	1/4 S	37.00
RFT26C1UIAV901*	2600	3/4	208-230	1	5.7	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	36.00
RFT30C1UCFV901*	3000	3/4	208-230	1	6.1	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	39.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



RRT62C1EIAA901

RRT SERIES

The R*T platform extends from 1/2 - 1 1/4 HP (3600 Btu/hr to 10000 Btu/hr) capacity. Engineered to address both current and future challenges of Foodservice, Food Retail, Industrial, and Environmental/Medical industries. The R*T covers most commercial applications such as traditional reach-ins, ice machines, walk ins etc. The R*T provides unmatched benefits, improving total cost of ownership and customer value. The newest models also feature patented technology to improve liquid handling and help achieve industry leading performance as detailed below. The end result is the best hermetic compressor in this size for refrigeration applications.

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RRT62C1EIAA901*	5600	1/2	115	1	9.5	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00
RRT64C1ECFA901*	6360	1/2	115	1	11.0	8 x 4.8	17.00	13.00	16.00	3/8 S	1/4 S	52.00
RRT64C1EIFA901*	6360	3/4	115	1	11.0	8 x 4.8	13.00	17.00	16.00	3/8 ST	1/4 ST	37.00
RRT64C1EIFA959*	6360	3/4	115	1	11.0	8 x 4.8	8.70	7.10	10.30	3/8 ST	1/4 ST	37.00
RRT81C1EPFA959*	8100	3/4	115	1	13.0	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	45.00
RRT10K1EPFA201*	10400	1	115	1	13.6	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	39.00
RRT10K1EPFA901*	10400	1	115	1	13.6	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	50.00
RRT10K1EPFA959*	10400	1	115	1	13.6	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	40.00
RRT62C1EIAV901*	5600	1/2	208-230	1	4.3	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00
RRT64C1EIAV901*	6400	3/4	208-230	1	6.4	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	37.00
RRT64C1EIAV959*	6360	1/2	208-230	1	6.4	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00
RRT81C1EPFV959*	8100	3/4	208-230	1	6.5	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	45.00
RRT10K1EPFV901*	10400	1	208-230	1	8.0	8 x 4.8	9.80	6.90	10.30	1/2 S	3/8 S	39.20
RRT10K1EPFV959*	10400	1	208-230	1	8.0	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	40.00



RST40C1EIAA901

RS SERIES, R404A

- Capacity rated at -10°F 120°F Condensing (BTUH)
- All suitable for applications -25°F to +30°F SST R404A
- Many also suitable for MT R407C, (R22) applications
- Quad mounting dimensions: 8.0" x 4.8"
- Charged with POE oil
- 901: Mounting parts, electrical components, sweat connections
- 959: Mounting parts, electrical components, Rotolock suction spud
- 1/2" for 1" RL spud
- Bold RL connection requires valve or adapter for operation (not provided).

COPELAND

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RST40C1EIAA901*	3510	1/2	115	1	11.0	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00
RST45C1ECAA901*	4240	1/2	115	1	10.5	8 x 4.8	9.00	11.00	12.00	3/8 S	1/4 S	18.76
RST45C1EIAA901*	4240	1/2	115	1	10.5	8 x 4.8	14.00	15.00	16.00	3/8 S	1/4 S	42.00
RST45C1EIAA959*	4240	1/2	115	1	10.5	8 x 4.8	13.00	15.00	16.00	1 RL	1/4 S	35.00
RST45C1EIAV959*	4240	1/2	115	1	5.1	8 x 4.8	14.00	10.00	10.00	3/8 S	1/4 S	50.00
RST55C1ECFA901*	5200	3/4	115	1	15.0	8 x 4.8	13.00	15.00	16.00	1 RK	1/4 ST	38.00
RST55C1ECFA959*	5200	3/4	115	1	15.0	8 x 4.8	15.00	15.00	16.00	1 RK	1/4 ST	38.00
RST64C1ECFA901*	6500	1	115	1	14.6	8 x 4.8	13.00	15.00	16.00	3/8 S	1/4 S	64.00
RST64C1ECFA959*	6500	1	115	1	14.6	8 x 4.8	13.00	15.00	16.00	1 RL	1/4 S	62.00
RST70C1EPFA901*	7150	1	115	1	16.0	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	50.00
RST80C1EPFA901*	8250	1	115	1	18.2	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	50.00
RST40C1ECAA901*	3510	1/2	208-230	1	9.0	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00

Continued on next page

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							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RST40C1EIAV901*	3510	1/2	208-230	1	5.1	8 x 4.8	14.00	11.00	11.00	3/8 S	1/4 S	40.00
RST45C1ECAV901*	4240	1/2	208-230	1	5.1	8 x 4.8	9.00	11.00	12.00	3/8 S	1/4 S	35.00
RST45C1EIAV901*	4240	1/2	208-230	1	5.1	8 x 4.8	13.00	14.00	16.00	3/8 S	1/4 S	42.00
RST55C1ECAV901*	5200	3/4	208-230	1	6.8	8 x 4.8	14.00	16.00	16.00	3/8 S	1/4 S	35.00
RST55C1ECAV959*	5200	3/4	208-230	1	6.8	8 x 4.8	13.00	15.00	16.00	1 RL	1/4 S	46.00
RST61C1ECAV901*	6100	3/4	208-230	1	6.8	8 x 4.8	13.00	15.00	16.00	3/8 S	1/4 S	38.00
RST64C1ECAV901*	6500	1	208-230	1	9.0	8 x 4.8	13.00	15.00	16.00	3/8 S	1/4 S	62.00
RST64C1ECAV959*	6500	1	208-230	1	9.0	8 x 4.8	13.00	17.00	16.00	1 RL	1/4 S	51.00
RST64C1EIAV901*	6500	1	208-230	1	9.0	8 x 4.8	13.00	15.00	16.00	1/4 S	3/8 S	64.00
RST64C1EIAV959*	6500	1	208-230	1	9.0	8 x 4.8	16.00	13.00	17.00	1 RL	1/4 S	51.00
RST70C1EPFV901*	7150	1	208-230	1	7.7	8 x 4.8	14.00	10.00	10.00	3/8 S	3/8 S	50.00
RST70C1EPFV959*	7150	1	208-230	1	7.7	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00
RST80C1EPFV959*	8250	1	208-230	1	9.3	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00
RST97C1EPFV901*	9460	1 1/2	208-230	1	10.0	8 x 4.8	17.00	12.00	12.00	1/2 S	3/8 S	50.00
RST97C1EPFV959*	9460	1 1/2	208-230	1	10.0	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00
RST70C1ETA5901*	7150	1	208-230	3	5.5	8 x 4.8	14.00	10.00	10.00	1/2 S	3/8 S	50.00
RST70C1ETA5959*	7150	1	208-230	3	5.5	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00
RST80C1ETA5959*	8250	1	208-230	3	5.7	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00
RST97C1ETA5959*	9460	1 1/2	208-230	3	6.0	8 x 4.8	14.00	10.00	10.00	1 RL	3/8 S	42.00

SEMI-HERMETIC COMPRESSOR



3AH2020ACAB

3 SERIES

- Mid range compressor: 2 to 3 HP; 3A air cooled, 3R refrigerant cooled
- Oil charge: AB = Alkylbenzene; POE = Polyolester

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
3AH2020ACAB*[1]	5470	2	230	1	9.3	11 5/8 x 11	13.75	13.00	18.00	187.00
3AJB021ACAB*[1]	4100	2	230	1	14.4	11 5/8 x 11	13.75	13.00	18.00	187.00
3AB2031ACAB*[1]	8650	3	230	1	14.7	11 5/8 x 11	13.75	13.00	18.00	189.00
3ABB032ECAB*[1]	8530	3	230	1	14.7	11 5/8 x 11	13.75	13.00	18.00	189.00
3RA2031ACAB*[1]	8650	3	230	1	17.8	11 5/8 x 11	13.75	13.00	18.00	187.00
3RK2031ACAB*[1]	8650	3	230	1	18.3	11 5/8 x 11	13.75	13.00	18.00	193.00
3AB1031ATAC*[1]	7200	2	208-230	3	7.1	11 5/8 x 11	13.75	13.00	18.00	189.00
3AH1020ATAC*[1]	5470	2	208-230	3	6.6	11 5/8 x 11	13.75	13.00	18.00	187.00
3AJA021ATAC*[1]	8420	2	208-230	3	10.0	11 5/8 x 11	13.75	13.00	18.00	187.00
3RA1031ATAD*[1]	7200	2	208-230	3	7.1	11 5/8 x 11	13.75	13.00	18.00	187.00
3ABA031ETAC*[1]	7290	3	208-230	3	10.0	11 5/8 x 11	13.75	13.00	18.00	189.00
3RA1031ATAC*[1]	7200	3	208-230	3	13.1	11 5/8 x 11	13.75	13.00	18.00	187.00
3RAA031ETAC*[1]	7290	3	208-230	3	14.2	11 5/8 x 11	13.75	13.00	18.00	187.00
3RK1031ATAC*[1]	7200	3	208-230	3	11.8	11 5/8 x 11	13.75	13.00	18.00	193.00
3AH1020ATAD*[1]	5470	2	460	3	3.7	11 5/8 x 11	13.75	13.00	18.00	187.00
3ABA031ETAD*[1]	7290	3	460	3	5.1	11 5/8 x 11	13.75	13.00	18.00	189.00
3RAA031ETAD*[1]	7290	3	460	3	6.3	11 5/8 x 11	13.75	13.00	18.00	187.00
3RK1031ATAD*[1]	7200	3	460	3	5.2	11 5/8 x 11	13.75	13.00	18.00	193.00

[1] Refrigerant cooled

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



4RA3100ATSK

4R SERIES

- Large capacity 4 cylinder compressor: 10 to 30 HP
- Mounting dimensions: 15" L x 12" W
- Oil charge: Alkylbenzene
- Rated load amps shown 230 V for dual voltage compressors

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
4RA3100ATSK*	68000	10	208-230	3	54.8	15 x 12	18.16	18.57	24.63	400.00
4RL1150ATSK*	53500	15	208-230	3	62.6	15 x 12	18.16	18.57	24.63	429.00
4RL2150ATSK*	53500	15	208-230	3	62.6	15 x 12	18.16	18.57	24.63	429.00
4RH1150ATSK*	150000	15	208-230	3	63.0	15 x 12	26.25	24.00	32.50	429.00
4RE2200ATSK*[1]	156000	20	208-230	3	71.4	15 x 12	18.16	18.57	24.63	420.00
4RA4200ATSK*	200000	20	208-230	3	70	15 x 12	26.25	24.00	32.50	411.00
4RK21500TSK*	148000	25	208-230	3	62	15 x 12	18.16	18.57	24.63	425.00
4RK2250ATSK*	248520	25	208-230	3	88.5	15 x 12	18.16	18.57	24.63	449.00
4RR1300ATSK*[1]	295600	30	208-230	3	102.0	15 x 12	18.16	18.57	24.63	495.00
4RR2300ATSK*[2]	295600	30	208-230	3	102.0	15 x 12	18.16	18.57	24.63	495.00

[1] 1 Bank unloading. Use existing unloading components. [2] 1 Bank unloading. Use existing unloading components. Has an extended oil sump



9TK1050ATFC

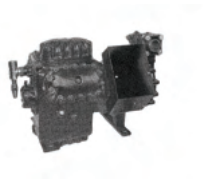
4T SERIES

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
9TK1050ATFC*[1]	22500	5	208-230	3	19.6	15 x 12	18.67	15.17	26.00	359.00
9TL1076ATFC*[1]	85500	7 1/2	208-230	3	30.0	15 x 12	18.67	15.17	26.00	367.00
9TH1101ATFC*[1]	115000	10	208-230	3	37.3	15 x 12	18.67	15.17	26.00	385.00
9TL1076ATFD*[1]	85500	7 1/2	460	3	14.5	15 x 12	18.67	15.17	26.00	367.00
9TH1101ATFD*[1]	115000	10	460	3	17.5	15 x 12	18.67	15.17	26.00	385.00

[1] Extra low temperature models

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



6RA4100ATSK

6R SERIES

- Large capacity 6 cylinder compressor: 10 to 40 HP
- Mounting dimensions: 15" L x 12" W
- Oil charge: AB = Alkylbenzene; MIN = Mineral
- Rated load amps shown 230 V for dual voltage compressors

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
6RA4100ATSK*	35800	10	208-230	3	43.6	15 x 12	19.16	20.13	29.40	450.00
6RN22000TSK*	109000	20	208-230	3	65.4	15 x 12	19.16	20.13	29.40	455.00
6RP2200ATSK*	109000	20	208-230	3	N/A	15 x 12	19.16	20.13	29.40	529.00
6RA4200ATSK*	109000	20	208-230	3	67.3	15 x 12	19.16	20.13	29.40	450.00
6RL1250ATSK*	80500	25	208-230	3	96.9	15 x 12	19.16	20.13	29.40	482.00
6RN2300ATSK*[1]	300850	30	208-230	3	105.0	15 x 12	19.16	20.13	29.40	502.00
6RT1300ATSK*	300850	30	208-230	3	111.0	15 x 12	19.16	20.13	29.40	525.00
6RP2350ATSK*[1]	380000	35	208-230	3	135.0	15 x 12	19.16	20.13	29.40	529.00
6RS2400ATSN*	416000	40	208-230	3	142.0	15 x 12	19.16	20.13	29.40	566.00
6RP2350AFSD*[1]	380000	35	460	3	67.5	15 x 12	19.16	20.13	29.40	529.00

[1] 2 Bank unloading. Use existing unloading components.



9RA1050ATFC

9R SERIES

- 3 cylinder compressor
- Wide capacity range, 5 to 15 HP
- Valves and electrical components sold separately
- Oil charge: AB = Alkylbenzene; POE = Polyolester; MIN = Mineral

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
9RA1050ATFC*	36300	5	208-230	3	16.7	15 x 12	18.67	15.17	26.00	323.00
9RB1050ATFC*	16000	5	208-230	3	15.9	15 x 12	18.67	15.17	26.00	323.00
9RJ1050ATFC*	23400	5	208-230	3	14.70	15 x 12	18.67	15.17	26.00	323.00
9RB1076ATFC*	29400	7 1/2	208-230	3	29.9	15 x 12	18.67	15.17	26.00	332.00
9RC1076ATFC*	72000	7 1/2	208-230	3	30.6	15 x 12	18.67	15.17	26.00	332.00
9RJ1076ATFC*	27000	7 1/2	208-230	3	29.6	15 x 12	18.67	15.17	26.00	332.00
9RS2076ATFC*	56500	7 1/2	208-230	3	29.4	15 x 12	18.67	15.17	26.00	348.00
9RS3076ATFC*	57500	7 1/2	208-230	3	29.4	15 x 12	18.67	15.17	26.00	348.00
9RC1101ATFC*	119750	10	208-230	3	44.0	15 x 12	18.67	15.17	26.00	359.00
9RS31015TFC*	35900	10	208-230	3	41.0	15 x 12	18.67	15.17	26.00	358.00
9RS1150ATSC*	156000	15	208-230	3	56.5	15 x 12	18.67	15.17	26.00	379.00
9RB1076ATFD*	29400	7 1/2	460	3	15.4	15 x 12	18.67	15.17	26.00	332.00
9RC1076ATFD*	72000	7 1/2	460	3	15.8	15 x 12	18.67	15.17	26.00	332.00
9RJ1076ATFD*	46900	7 1/2	460	3	14.7	15 x 12	18.67	15.17	26.00	332.00
9RS2076ATFD*	46900	7 1/2	460	3	16.5	15 x 12	18.67	15.17	26.00	348.00
9RS3076ATFD*	57500	7 1/2	460	3	16.5	15 x 12	18.67	15.17	26.00	348.00
9RC1101ATFD*	119750	10	460	3	20.0	15 x 12	18.67	15.17	26.00	359.00
9RS1150ATFD*	156000	15	460	3	28.5	15 x 12	18.67	15.17	26.00	379.00
9RT1150ATFD*[1]	156000	15	460	3	28.5	15 x 12	18.67	15.17	26.00	385.00

[1] Service replacement—use existing unloader feauters

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



EAAB015ACAB

E SERIES

- Mid range compressor: 1 1/2 to 3 HP; EA air cooled, ER refrigerant cooled
- Valves and electrical components sold separately
- Oil charge: AB = Alkylbenzene; POE = Polyolester

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
EAAB015ACAB*	5900	1 1/2	230	1	8.9	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EAJB015ACAB*	4980	1 1/2	230	1	6.6	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EADB021ECAB*	6290	2	230	1	10.0	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EALB020ACAB*	15700	2	230	1	8.7	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
ERA2020ACAB*[1]	20200	2	230	1	10.4	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERJ2020ACAB*[1]	20500	2	230	1	10.1	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERFB031ECAB*[1]	21900	3	230	1	17.0	10 1/16 x 10 1/2	13.80	12.00	16.69	187.00
EAJB015ACAH*	4980	1 1/2	208-230	1	5.9	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EAVB020ACAB*	13400	2	208-230	1	14.00	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EAVB021ECAV*	6820	2	208-230	1	14.7	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EAAA015ATAC*	4840	1 1/2	208-230	3	5.9	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EAJA015ATAC*	4970	1 1/2	208-230	3	5.9	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EAV1015ATAC*	3950	1 1/2	208-230	3	5.6	10 1/16 x 10 1/2	13.80	12.00	16.69	162.00
EADA020ETAC*	4770	2	208-230	3	6.8	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EALA020ATAC*	15900	2	208-230	3	7.1	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EAVA021ETAC*	6970	2	208-230	3	7.4	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
ERA10200TAC*[1]	20000	2	208-230	3	6.6	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERCA020ATAC*	14500	2	208-230	3	7.0	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERCA021ETAC*[1]	14900	2	208-230	3	8.8	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERJ1020ATAC*[1]	20300	2	208-230	3	6.3	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERFA031ETAC*[1]	35200	3	208-230	3	12.4	10 1/16 x 10 1/2	13.80	12.00	16.69	187.00
EADA020ATAD*	5590	2	460	3	3.1	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EAL1020ATAD*	15900	2	460	3	3.7	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
EAVA021ETAD*	6970	2	460	3	3.9	10 1/16 x 10 1/2	13.80	12.00	16.69	168.00
ERA1020ATAD*[1]	20000	2	460	3	3.5	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERCA020ETAD*[1]	12100	2	460	3	3.5	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERJ1020ATAD*[1]	20300	2	460	3	3.4	10 1/16 x 10 1/2	13.80	12.00	16.69	170.00
ERFA031ETAD*[1]	35200	3	460	3	5.8	10 1/16 x 10 1/2	13.80	12.00	16.69	187.00

[1] Refrigerant cooled



HAFB003EIAA

HA SERIES

- Smallest body compressor: 1/3 to 1/2 HP
- Charged with Polyol Ester oil
- Valves and electrical components sold separately

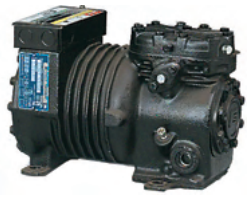
COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
HAFB003EIAA*	882	1/3	115	1	5.4	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00
HAJB003EIAA*	1230	1/3	115	1	4.7	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00
HATB005ECAA*	2070	1/2	115	1	10.4	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
HAGB005ECAV*	5410	1/2	208-230	1	4.0	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00
HAJB005ECAV*	3910	1/2	208-230	1	3.7	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00
HAGA005ETAC*	5280	1/2	208-230	3	2.4	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00
HAJA005ETAC*	3500	1/2	208-230	3	2.2	8 3/16 x 6 3/8	11.20	81.32	12.38	72.00



KAEB005AIAA

KA SERIES

Extra cooling capacity in a small body compressor. Found in the majority of semi-hermetic unitary installations.

- Range: 1/2 to 2 HP
- Typical dimensions: 14 3/8" L x 9 1/2" W x 11 1/5" H
- Air Cooled
- Oil charge: AB = Alkylbenzene; POE = Polyolester

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
KAEB005AIAA*	4280	1/2	115	1	7.8	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAEB005EIAA*	4280	1/2	115	1	7.8	8 3/16 x 6 3/8	10.00	9.00	15.00	83.00
KAGB005EIAA*	2930	1/2	115	1	7.8	8 3/16 x 6 3/8	12.00	10.00	16.00	83.00
KAMB005AIAA*	1410	1/2	115	1	7.2	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KANB005EIAA*	1510	1/2	115	1	8.0	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAAB007AIAA*	4800	3/4	115	1	10.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAAB007ECAA*	4800	3/4	115	1	10.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAEB007ECAA*	2030	3/4	115	1	10.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGB007AIAA*	6100	3/4	115	1	9.5	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJB007EIAA*	3720	3/4	115	1	9.1	8 3/16 x 6 3/8	12.00	10.00	16.00	91.00
KAMB007ECAA*	2800	3/4	115	1	10.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMB007EIAA*	2800	3/4	115	1	10.1	8 3/16 x 6 3/8	12.00	10.00	16.00	91.00
KAN2007ACAA*	8960	3/4	115	1	11.7	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJB010ACAA*	10300	1	115	1	12.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAK2010ACAA*	4490	1	115	1	11.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAKB012ECAA*	8280	1	115	1	N/A	8 3/16 x 6 3/8	11.20	9.50	14.38	95.00
KALB010ACAA*	3150	1	115	1	10.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KATB010ACAA*	4230	1	115	1	12.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KALB015ACAB*	5690	1 1/2	230	1	5.6	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KATB015ACAB*	6900	1 1/2	230	1	6.1	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KAEB005ACAV*	4280	1/2	208-230	1	3.4	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAGB005ACAV*	1890	1/2	208-230	1	4.1	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAMB005ACAV*	3990	1/2	208-230	1	3.7	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KANB005ACAV*	1510	1/2	208-230	1	3.6	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KANB005ECAV*	1510	1/2	208-230	1	3.6	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAAB007ACAV*	4800	3/4	208-230	1	5.8	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAAB007ECAV*	4800	3/4	208-230	1	5.8	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAEB007ECAV*	2030	3/4	208-230	1	5.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGB007ACAV*	6100	3/4	208-230	1	5.4	8 3/16 x 6 3/8	12.00	10.00	16.00	91.00
KAJB007ACAV*	1760	3/4	208-230	1	5.1	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMB007ECAV*	2800	3/4	208-230	1	5.6	8 3/16 x 6 3/8	12.00	10.00	16.00	91.00
KANB007ECAV*	6980	3/4	208-230	1	5.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGB010ECAV*	8890	1	208-230	1	7.5	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJB010ECAV*	10300	1	208-230	1	6.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAKB011ECAV*	4410	1	208-230	1	7.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KALB010ECAV*	5530	1	208-230	1	6.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMB010ACAV*	13800	1	208-230	1	7.5	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KARB010ECAV*	7490	1	208-230	1	7.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
KATB010ACAV*	4230	1	208-230	1	7.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGB015ACAV*	15800	1 1/2	208-230	1	9.6	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KALB015ECAV*	5690	1 1/2	208-230	1	9.9	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KATB015ECAV*	6900	1 1/2	208-230	1	9.6	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KAKB021ACAV*	8280	2	208-230	1	10.6	8 3/16 x 6 3/8	11.20	9.50	14.38	60.00
KAKB021ECAV*	8280	2	208-230	1	10.6	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KAEA005ATAC*	3850	1/2	208-230	3	1.9	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KAMA005ATAC*	1400	1/2	208-230	3	1.7	8 3/16 x 6 3/8	11.20	9.50	14.38	83.00
KANA006ETAC*	1400	1/2	208-230	3	2.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAA1007ATAC*	2580	3/4	208-230	3	2.6	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAEA007ETAC*	1980	3/4	208-230	3	3.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGA007ATAC*	5440	3/4	208-230	3	2.8	8 3/16 x 6 3/8	12.00	10.00	16.00	91.00
KAJA007ATAC*	4000	3/4	208-230	3	2.8	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMA007ATAC*	2610	3/4	208-230	3	3.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMA007ETAC*	2610	3/4	208-230	3	3.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KANA007ETAC*	7150	3/4	208-230	3	3.0	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGA010ETAC*	8680	1	208-230	3	4.3	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJA011ETAC*	3690	1	208-230	3	4.6	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAKA010ATAC*	4490	1	208-230	3	3.3	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KALA010ATAC*	3070	1	208-230	3	3.3	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAMA010ATAC*	12900	1	208-230	3	4.5	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KARA010ETAC*	12000	1	208-230	3	4.3	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KATA010ATAC*	3340	1	208-230	3	3.9	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGA015ATAC*	15800	1 1/2	208-230	3	5.5	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KALA015ATAC*	15200	1 1/2	208-230	3	5.4	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KALA016ETAC*	5580	1 1/2	208-230	3	6.6	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KATA015ETAC*	6700	1 1/2	208-230	3	6.0	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KAKA020ETAC*	12140	2	208-230	3	6.8	8 3/16 x 6 3/8	11.20	9.50	14.38	105.00
KAGA011ETAD*	8810	1	460	3	2.1	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJA011ATAD*	3790	1	460	3	2.0	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAJA011ETAD*	3770	1	460	3	2.1	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAKA010ATAD*	7520	1	460	3	2.4	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAKA020ATAD*	13500	2	460	3	3.0	8 3/16 x 6 3/8	11.20	9.50	14.38	105.00
KAKA022ETAD*	12200	1	460	3	3.0	8 3/16 x 6 3/8	11.00	12.00	14.00	91.00
KALA010ATAD*	3070	1	460	3	1.8	8 3/16 x 6 3/8	11.20	9.50	14.38	10.00
KAM1010ATAD*	13300	1	460	3	2.2	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KARA011ETAD*	9580	1	460	3	2.0	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KATA010ATAD*	3340	1	460	3	2.1	8 3/16 x 6 3/8	11.20	9.50	14.38	91.00
KAGA015ATAD*	15800	1 1/2	460	3	2.5	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KALA015ATAD*	15200	1 1/2	460	3	2.9	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KALA016ETAD*	5580	1 1/2	460	3	3.4	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00
KATA015ATAD*	6700	1 1/2	460	3	2.9	8 3/16 x 6 3/8	11.20	9.50	14.38	96.00

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LAMB031ACAB

LA SERIES

- Mid range air cooled compressor: 3 HP
- Oil charge: AB = Alkylbenzene; POE = Polyolester

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
LAMB031ACAB*	9250	3	230	1	12.7	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHB031ECAB*	10420	3	230	1	16.6	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHB032ECAB*	11200	3	230	1	16.7	11 5/8 x 11	15.75	14.00	18.63	221.00
LALB032ECAB*	12700	3	230	1	15.0	11 5/8 x 11	15.75	14.00	18.63	221.00
LACB032ECAB*	14700	3	230	1	15.5	11 5/8 x 11	15.75	14.00	18.63	221.00
LAMA031ATAC*	9250	3	208-230	3	10.0	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHA031ETAC*	11200	3	208-230	3	10.7	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHA032ETAC*	11600	3	208-230	3	12.8	11 5/8 x 11	15.75	14.00	18.63	221.00
LALA032ETAC*	13400	3	208-230	3	12.6	11 5/8 x 11	15.75	14.00	18.63	221.00
LACA032ETAC*	14600	3	208-230	3	12.8	11 5/8 x 11	15.75	14.00	18.63	221.00
LACA031ATAC*	19700	3	208-230	3	12.8	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHA032ETAD*	11660	3	460	3	6.0	11 5/8 x 11	15.75	14.00	18.63	221.00
LALA032ETAD*	13400	3	460	3	6.2	11 5/8 x 11	15.75	14.00	18.63	221.00
LACA032ETAD*	14600	3	460	3	6.0	11 5/8 x 11	15.75	14.00	18.63	221.00
LAHA031ATAD*	31900	3	460	3	6.0	11 5/8 x 11	15.75	14.00	18.63	221.00


MRB1050ATFC

MR SERIES

- Mid range refrigerant cooled compressor, 5 to 7 1/2 HP
- Oil charge: Alkylbenzene
- Valves and electrical components sold separately

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
MRB1050ATFC*	3600	5	208-230	3	21.2	11 5/8 x 11	18.00	13.00	22.44	286.00
MRA2050ATFC*	28800	5	208-230	3	22.0	11 5/8 x 11	18.00	13.00	22.44	286.00
MRF2050ATFC*	48900	5	208-230	3	21.0	11 5/8 x 11	18.00	13.00	22.44	286.00
MRH4076ATFC*	82000	7 1/2	208-230	3	30.3	11 5/8 x 11	18.00	13.00	22.44	298.00
MRB1050ATFD*	3600	5	460	3	12.1	11 5/8 x 11	18.00	13.00	22.44	286.00
MRH4076ATFD*	82000	7 1/2	460	3	13.5	11 5/8 x 11	18.00	13.00	22.44	298.00

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SEMI-HERMETIC COMPRESSOR



NRD1040ECFB

NR SERIES

- Mid range refrigerant cooled compressor: 3 to 5 HP
- Valves and electrical components sold separately
- Oil charge: AB = Alkylbenzene; POE = Polyolester
- Capacity for NRD1 compressors are for 3 HP 3? models; slightly higher for 4 HP 1? models

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
NRD1040ECFB*[1]	13600	4	230	1	27.7	11 5/8 x 11	16.25	13.00	21.17	249.00
NRD1031ATFC*	6910	3	208-230	3	9.9	11 5/8 x 11	16.25	13.00	21.17	232.00
NRN2031ATFC*	9720	3	208-230	3	13.0	11 5/8 x 11	16.25	13.00	21.17	232.00
NRD1032ETFC*	14300	3	208-230	3	16.3	11 5/8 x 11	16.25	13.00	21.17	232.00
NRB2040ETFC*	29900	4	208-230	3	21.8	11 5/8 x 11	15.30	13.00	20.20	240.00
NRM1050ATFC*	43900	5	208-230	3	24.3	11 5/8 x 11	16.25	13.00	21.17	249.00
NRA2050ATFC*	57600	5	208-230	3	19.2	11 5/8 x 11	16.25	13.00	21.17	248.00
NRD1032ETFD*	14300	3	460	3	8.4	11 5/8 x 11	16.25	13.00	21.17	232.00
NRB2040ETFD*	29900	4	460	3	11.3	11 5/8 x 11	16.25	13.00	21.17	240.00
NRM1050ATFD*	43900	5	460	3	12.1	11 5/8 x 11	16.25	13.00	21.17	249.00
NRA2050ATFD*	57600	5	460	3	9.6	11 5/8 x 11	16.25	13.00	21.17	248.00

[1] Electrical: start 216-259 x 330, run 40 x 440, relay 940000169(67)



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DISCUS COMPRESSOR



2DF3F16KETFC

2D SERIES

- Smallest discus technology compressor
- 3 to 7 1/2 HP
- Low temperature R22 applications require demand cooling
- Oil charge: MIN = Mineral; POE = Polyolester

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
2DF3F16KETFC*	16000	3	208-230	3	16.8	10.5 x 10.5	18.13	15.44	23.25	306.00
2DL3F20KETFC*	20000	4	208-230	3	26.3	10.5 x 10.5	18.13	15.44	23.25	324.00
2DA3R58KOTFC*	58000	5	208-230	3	22.3	10.5 x 10.5	18.13	15.44	23.25	292.00
2DB3R61KOTFC*	61000	5	208-230	3	19.2	10.5 x 10.5	27.00	19.00	31.50	292.00
2DC3R53KETFC*	62700	5	208-230	3	22.3	10.5 x 10.5	18.13	15.44	23.25	308.00
2DD3R63KETFC*	72800	5	208-230	3	22.3	10.5 x 10.5	18.13	15.44	23.25	311.00
2DA3F23KETFC*	23100	6	208-230	3	28.8	10.5 x 10.5	18.13	15.44	23.25	310.00
2DB3F25KETFC*	25000	6	208-230	3	28.2	10.5 x 10.5	18.13	15.44	23.25	323.00
2DL3R78KETFC*	90800	7 1/2	208-230	3	31.6	10.5 x 10.5	18.13	15.44	23.25	322.00
2DA3R89KETFC*	103000	7 1/2	208-230	3	32.0	10.5 x 10.5	18.13	15.44	23.25	322.00
2DF3F16KETFD*	16000	3	460	3	8.1	10.5 x 10.5	18.13	15.44	23.25	306.00
2DL3F20KETFD*	20000	4	460	3	10.2	10.5 x 10.5	18.13	15.44	23.25	324.00
2DA3R58KOTFD*	58000	5	460	3	10.4	10.5 x 10.5	18.13	15.44	23.25	292.00
2DC3R53KETFD*	62700	5	460	3	10.4	10.5 x 10.5	18.13	15.44	23.25	308.00
2DD3R63KETFD*	72800	5	460	3	10.5	10.5 x 10.5	18.13	15.44	23.25	311.00
2DA3F23KETFD*	23100	6	460	3	10.2	10.5 x 10.5	18.13	15.44	23.25	310.00
2DB3F25KETFD*	25000	6	460	3	13.3	10.5 x 10.5	18.13	15.44	23.25	323.00
2DL3R78KETFD*	90800	7 1/2	460	3	13.8	10.5 x 10.5	18.13	15.44	23.25	322.00
2DA3R89KETFD*	103000	7 1/2	460	3	14.1	10.5 x 10.5	18.13	15.44	23.25	322.00



3DA3F18KOTFC

3D SERIES

- 3 cylinder compressor
- Comparable to 9R models
- Wide range: 5 to 15 Hp
- Delta reed valve design
- 3D*D models offer CoreSense™ digital modulation capacity control technology
- Mounting dimensions: 15" L x 12" W
- Oil charge: MIN = Mineral; POE = Polyol Ester
- Low temperature R22 applications require demand cooling

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
3DA3F18KOTFC*	14300	5	208-230	3	17.2	12 x 15	27.00	19.00	31.50	347.00
3DA3F28KETFC*	23200	6	208-230	3	30.3	12 x 15	21.00	15.17	25.81	386.00
3DHHF28KETFC*[1]	28000	6	208-230	3	13.7	12 x 15	27.00	19.00	31.50	335.00
3DB3F33KETFC*	33000	7 1/2	208-230	3	31.5	12 x 15	21.00	15.17	25.81	369.00
3DJ3F33KETFC*[1]	33000	7 1/2	208-230	3	30.7	12 x 15	27.00	19.00	31.50	100.00
3DA3R10METFC*	123900	7 1/2	208-230	3	41.0	12 x 15	21.00	15.17	25.81	393.00
3DE3R10METFC*[1]	123900	7 1/2	208-230	3	41.0	12 x 15	27.00	19.00	31.50	359.00
3DEHR10METFC*[1]	123900	7 1/2	208-230	3	41.0	12 x 15	21.00	15.17	25.81	359.00
3DJHF33KETFC*[1]	123900	7 1/2	208-230	3	20.0	12 x 15	27.00	19.00	31.50	393.00
3DF3F40KETFC*	40000	9	208-230	3	39.0	12 x 15	21.00	15.17	25.81	393.00
3DG3F40KETFC*[1]	40200	9	208-230	3	35.7	12 x 15	27.00	19.00	31.50	385.00

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DISCUS COMPRESSOR

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
3DGHF40KETFC*[1]	40200	9	208-230	3	37.0	12 x 15	27.00	19.00	31.50	385.00
3DR3F46KETFC*[1]	46000	10	208-230	3	41.4	12 x 15	27.00	19.00	31.50	365.00
3DRHF46KETFC*[1]	46000	10	208-230	3	41.4	12 x 15	27.00	19.00	31.50	365.00
3DS3F46KETFC*	46000	10	208-230	3	42.0	12 x 15	21.00	15.17	25.81	365.00
3DF4S11METFC*	101000	10	208-230	3	42.6	12 x 15	27.00	19.00	31.50	393.00
3DKHS11METFC*	105000	10	208-230	3	42.6	12 x 15	27.00	19.00	31.50	393.00
3DS4S12METFC*	120000	10	208-230	3	47.1	12 x 15	27.00	19.00	31.50	393.00
3DTHS12METFC*	120000	10	208-230	3	47.1	12 x 15	27.00	19.00	31.50	393.00
3DB3R12METFC*	145900	10	208-230	3	43.6	12 x 15	21.00	15.17	25.81	389.00
3DP3R12METFC*[1]	145900	10	208-230	3	43.6	12 x 15	27.00	19.00	31.50	365.00
3DPHR12METFC*[1]	145900	10	208-230	3	43.6	12 x 15	21.00	15.17	25.81	365.00
3DF3R15METFC*	158200	12	208-230	3	48.2	12 x 15	21.00	15.17	25.81	395.00
3DF4R15METFC*[2]	158200	12	208-230	3	48.2	12 x 15	27.00	19.00	31.50	395.00
3DK3R15METFC*	158200	12	208-230	3	48.2	12 x 15	21.00	15.17	25.81	395.00
3DKHR15METFC*	158200	12	208-230	3	23.6	12 x 15	27.00	19.00	31.50	395.00
3DS3R17METFC*	194000	15	208-230	3	59.6	12 x 15	21.00	15.17	25.81	383.00
3DT3R17METFC*[1]	194000	15	208-230	3	59.6	12 x 15	21.00	15.17	25.81	385.00
3DTHR17METFC*[1]	194000	15	208-230	3	59.6	12 x 15	21.00	15.17	25.81	385.00
3DA3F28KETFD*	23200	6	460	3	13.7	12 x 15	21.00	15.17	25.81	386.00
3DHHF28KETFD*[1]	28000	6	460	3	13.7	12 x 15	27.00	19.00	31.50	335.00
3DB3F33KETFD*	33000	7 1/2	460	3	16.1	12 x 15	21.00	15.17	25.81	369.00
3DA3R10METFD*	123900	7 1/2	460	3	20.0	12 x 15	21.00	15.17	25.81	393.00
3DE3R10METFD*[1]	123900	7 1/2	460	3	20.0	12 x 15	27.00	19.00	31.50	359.00
3DEHR10METFD*[1]	123900	7 1/2	460	3	20.0	12 x 15	21.00	15.17	25.81	359.00
3DJHF33KETFD*[1]	123900	7 1/2	460	3	20.0	12 x 15	21.00	15.17	25.81	393.00
3DF3F40KETFD*	40000	9	460	3	16.9	12 x 15	21.00	15.17	25.81	393.00
3DGHF40KETFD*[1]	40200	9	460	3	16.7	12 x 15	27.00	19.00	31.50	385.00
3DR3F46KETFD*[1]	46000	10	460	3	18.6	12 x 15	27.00	19.00	31.50	365.00
3DRHF46KETFD*[1]	46000	10	460	3	18.6	12 x 15	21.00	15.17	25.81	365.00
3DS3F46KETFD*	46000	10	460	3	18.6	12 x 15	21.00	15.17	25.81	365.00
3DF4S11METFD*	101000	10	460	3	20.4	12 x 15	27.00	19.00	31.50	393.00
3DKHS11METFD*	105000	10	460	3	20.4	12 x 15	27.00	19.00	31.50	393.00
3DS4S12METFD*	120000	10	460	3	22.8	12 x 15	27.00	19.00	31.50	393.00
3DTHS12METFD*	120000	10	460	3	22.8	12 x 15	27.00	19.00	31.50	393.00
3DB3R12METFD*	145900	10	460	3	20.0	12 x 15	21.00	15.17	25.81	389.00
3DP3R12METFD*[1]	145900	10	460	3	20.0	12 x 15	21.00	15.17	25.81	365.00
3DPHR12METFD*[1]	145900	10	460	3	20.0	12 x 15	27.00	19.00	31.50	365.00
3DF3R15METFD*	158200	12	460	3	23.6	12 x 15	21.00	15.17	25.81	395.00
3DF4R15METFD*[2]	158200	12	460	3	23.6	12 x 15	27.00	19.00	31.50	395.00
3DK3R15METFD*	158200	12	460	3	23.6	12 x 15	27.00	19.00	31.50	395.00
3DKHR15METFD*	158200	12	460	3	23.6	12 x 15	21.00	15.17	25.81	395.00
3DS3R17METFD*	194000	15	460	3	29.0	12 x 15	21.00	15.17	25.81	383.00
3DT3R17METFD*[1]	194000	15	460	3	29.0	12 x 15	21.00	15.17	25.81	385.00
3DTHR17METFD*[1]	194000	15	460	3	29.0	12 x 15	27.00	19.00	31.50	385.00

[1] Service replacement compressor. Use existing unloading components [2] 4 Bolt End Bell

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


3DADF28KETFC

3D SERIES, DIGITAL DISCUSS

- Multi-Refrigerant Approved
- Full Temperature Range
- Excellent Efficiency From Discus Technology
- Digital Models Available With 10% to 100% Operation
- CoreSense Technology
- Fixed and Variable Speed Operation

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
3DADF28KETFC*	61000	6	208-230	3	30.3	12 x 15	27.00	19.00	31.50	396.00
3DBDF33KETFC*	72000	7 1/2	208-230	3	31.5	12 x 15	27.00	19.00	31.50	400.00
3DADR10METFC*	103000	7 1/2	208-230	3	14.0	12 x 15	27.00	19.00	31.50	400.00
3DFDF40KETFC*	85500	9	208-230	3	39.0	12 x 15	27.00	19.00	31.50	400.00
3DSDS12METFC*	94500	10	208-230	3	41.9	12 x 15	27.00	19.00	31.50	400.00
3DSDF46KETFC*	95000	10	208-230	3	42.0	12 x 15	27.00	19.00	31.50	400.00
3DFDS11METFC*	101000	10	208-230	3	38.6	12 x 15	27.00	19.00	31.50	400.00
3DBDR12METFC*	146000	10	208-230	3	43.6	12 x 15	27.00	19.00	31.50	400.00
3DFDR15METFC*	13300	12	208-230	3	48.2	12 x 15	27.00	19.00	31.50	400.00
3DSDR17METFC*	16200	15	208-230	3	59.6	12 x 15	27.00	19.00	31.00	383.00
3DADF28KETFD*	61000	6	460	3	13.7	12 x 15	27.00	19.00	31.50	396.00
3DBDF33KETFD*	72000	7 1/2	460	3	16.1	12 x 15	27.00	19.00	31.50	400.00
3DADR10METFD*	146000	7 1/2	460	3	20.0	12 x 15	27.00	19.00	31.50	400.00
3DFDF40KETFD*	85500	9	460	3	16.9	12 x 15	27.00	19.00	31.50	400.00
3DSDS12METFD*	94500	10	460	3	21.3	12 x 15	27.00	19.00	31.50	400.00
3DSDF46KETFD*	95000	10	460	3	18.6	12 x 15	27.00	19.00	31.50	400.00
3DFDS11METFD*	101000	10	460	3	18.6	12 x 15	27.00	19.00	31.50	400.00
3DBDR12METFD*	146000	10	460	3	20.0	12 x 15	27.00	19.00	31.50	400.00
3DFDR15METFD*	13300	12	460	3	23.6	12 x 15	27.00	19.00	31.50	400.00
3DSDR17METFD*	16200	15	460	3	29.0	12 x 15	27.00	19.00	31.50	400.00


4DBXF54KETSK

4D SERIES

- 4 cylinder compressor
- Comparable to 4R models
- Range: 10 to 30 HP
- Delta reed valve design
- Mounting dimensions: 15" L x 12" W
- Oil charge: MIN = Mineral; POE = Polyol Ester
- Low temperature R22 applications require demand cooling

Rated load amps shown 230 V for dual voltage compressors

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
4DBXF54KETSK*	52500	5	208-230	3	51.3	15 x 12	26.25	24.00	32.50	450.00
4DCNF54KETSK*	52000	9	208-230	3	51.3	15 x 12	26.25	24.00	32.50	450.00
4DA3F47KETSK*	47000	10	208-230	3	45.6	15 X 12	26.25	24.00	32.50	450.00
4DN3F47KETSK*	47000	10	208-230	3	45.6	15 X 12	26.25	24.00	32.50	450.00
4DA3R12METSK*	120000	10	208-230	3	42.0	15 X 12	26.25	24.00	32.50	450.00
4DE3R12METSK*[1]	120000	10	208-230	3	42.0	15 X 12	26.25	24.00	32.50	450.00
4DA3S13METSK*	130000	10	208-230	3	57.1	15 X 12	26.25	24.00	32.50	450.00
4DE3S13METSK*[1]	130000	10	208-230	3	57.1	15 X 12	26.25	24.00	32.50	450.00
4DJNF76KETSK*	78000	12.5	208-230	3	64.3	15 x 12	26.25	24.00	32.50	450.00
4DL3F63KETSK*	63000	15	208-230	3	52.6	15 X 12	26.25	24.00	32.50	450.00
4DP3F63KETSK*[1]	63000	15	208-230	3	52.6	15 X 12	26.25	24.00	32.50	450.00
4DH3R16METSK*	133000	15	208-230	3	58.0	15 X 12	26.25	24.00	32.50	450.00
4DH3S16METSK*	133000	15	208-230	3	65.7	15 X 12	26.25	24.00	32.50	450.00
4DHDS16METSK*	133000	15	208-230	1	65.7	15 x 12	26.25	24.00	32.50	452.00

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DISCUS COMPRESSOR

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
4DK3R16METSK*	133000	15	208-230	3	58.0	15 X 12	26.25	24.00	32.50	450.00
4DK3S16METSK*	133000	15	208-230	3	65.7	15 X 12	26.25	24.00	32.50	450.00
4DADR18METSK*	180000	15	208-230	3	82.9	15 x 12	26.25	24.00	32.50	450.00
4DHDR22METSK*	22000	20	208-230	3	107.2	15 x 12	26.25	24.00	32.50	495.00
4DADS13METSK*	130000	20	208-230	3	50.0	15 x 12	26.25	24.00	32.50	450.00
4DR3R19METSK*[1]	159000	20	208-230	3	66.0	15 X 12	26.25	24.00	32.50	450.00
4DE3R18METSK*[1]	216000	20	208-230	3	66.0	15 X 12	26.25	24.00	32.50	450.00
4DC3R20MOTSK*	244000	20	208-230	1	65.6	15 X 12	19.19	20.81	25.40	450.00
4DS3F76KETSK*[1]	63000	22	208-230	3	66.0	15 X 12	26.25	24.00	32.50	450.00
4DT3F76KETSK*	76000	22	208-230	3	66.0	15 X 12	26.25	24.00	32.50	450.00
4DC3R20METSK*	259000	22	208-230	3	65.6	15 X 12	19.19	20.81	25.40	450.00
4DK3R22METSK*[1]	273000	25	208-230	3	82.2	15 X 12	26.25	24.00	32.50	450.00
4DR3R28METSK*[1]	317900	30	208-230	3	94.0	15 X 12	26.25	24.00	32.50	450.00
4DADF47KETSK*	47000	8	460	3	22.6	15 x 12	26.25	24.00	32.50	450.00
4DJDF76KETSK*	62500	12.5	460	3	33.0	15 x 12	26.25	24.00	32.50	495.00
4DB3R20MOFSD*	145000	13.5	460	3	32.5	15 x 12	26.25	24.00	32.50	425.00
4DE3R18MOFSD*	156000	15	460	3	33.6	15 x 12	26.25	24.00	32.50	450.00
4DR3R28MOFSD*	186000	18	460	3	45.0	15 x 12	26.25	24.00	32.50	450.00
4DK3R22MEFSD*	159000	20	460	3	40.6	15 x 12	26.25	24.00	32.50	450.00
4DK3R22MOFSD*	159000	20	460	3	40.6	15 x 12	26.25	24.00	32.50	450.00
4DJDR28METSK*	340000	25	460	3	57.1	15 x 12	26.25	24.00	32.50	495.00
4DR3R28MEFSD*	265000	30	460	3	51.9	15 x 12	26.25	24.00	32.50	450.00

[1] Service replacement compressor. Use existing unloading components



6DN3R37MEFSU

6D SERIES

- 6 cylinder compressor
- Comparable to 6R models
- Range: 20 to 40 HP
- Delta reed valve design
- Mounting dimensions: 15" L x 12" W
- Low temperature R22 applications require demand cooling
- Oil charge: MIN = Mineral; POE = Polyolester
- Rated load amps shown 230 V for dual voltage compressors

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
6DN3R37MEFSU*	37000	35	200	3	N/A	15 x 12	28.13	27.63	33.25	566.00
6DN3R37MOFSU*	37000	37	200	3	N/A	15 x 12	28.13	27.63	33.25	595.00
6DY3R32MOTSK*	355000	30	208-230	1	94.2	15 x 12	21.10	22.44	29.44	530.00
6DS3R40MOFSU*	466700	40	200	3	150.0	15 x 12	23.50	22.44	30.19	595.00
6DP3R35MOTSK*	350000	35	208-230	1	107.0	15 x 12	28.13	27.63	33.25	595.00
6DH3R23METSK*	234000	20	208-230	3	75.0	15 x 12	19.16	22.44	29.44	485.00
6DF3F11METSK*	110000	17	208-230	3	N/A	15 x 12	28.13	27.63	33.25	566.00
6DRDF11METSK*	105000	17	208-230	3	N/A	15 x 12	28.13	27.63	33.25	685.00
6DK3R23METSK*[1]	234000	20	208-230	3	75.0	15 x 12	28.13	27.63	33.25	485.00
6DP3R23METSK*[1]	234000	20	208-230	3	75.0	15 x 12	28.13	27.63	33.25	485.00
6DC3F93KETSK*[1]	93000	27	208-230	3	80.8	15 x 12	27.19	22.44	29.44	566.00
6DD3F93KETSK*[1]	93000	27	208-230	3	80.8	15 x 12	28.13	27.63	33.25	566.00
6DL3F93KETSK*	93000	27	208-230	3	80.8	15 x 12	27.19	22.44	29.44	566.00
6DE3F11METSK*[1]	110000	30	208-230	3	95.6	15 x 12	28.13	27.63	33.25	566.00
6DT3F11METSK*	110000	30	208-230	3	95.6	15 x 12	29.19	22.44	29.44	566.00
6DR3R28METSK*[1]	280000	30	208-230	3	100.0	15 x 12	28.13	27.63	33.25	566.00
6DS3R28METSK*[1]	280000	30	208-230	3	100.0	15 x 12	28.13	27.63	33.25	595.00

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
6DY3R32METSK*	355000	30	208-230	3	105.0	15 x 12	28.13	27.63	33.25	566.00
6DN3R37METSN*[1]	422100	35	208-230	3	125.0	15 x 12	18.00	22.44	30.19	595.00
6DP3R35METSK*[1]	387200	35	208-230	3	107.0	15 x 12	21.50	22.44	30.19	595.00
6DS3R40MEFSU*[1]	453000	40	208-230	3	150.0	15 x 12	28.13	27.63	33.25	595.00
6DS3R40METSN*[1]	466700	40	208-230	3	142.0	15 x 12	23.50	22.44	30.19	595.00
6DJNF11METSK*	110000	17	208-230/460	3	75.7	15 x 12	28.13	27.63	33.25	540.00
6DG3R37M0FSD*	420000	35	230	3	62.5	15 x 12	28.13	27.63	33.25	595.00
6DN3R37M0TSN*	254000	35	230-460	3	125.0	15 x 12	18.00	22.44	30.19	595.00
6DRDR40METSN*	278000	40	230-460	3	N/A	15 x 12	28.13	27.63	33.25	595.00
6DZNF13MEAWD*	138500	13	460	3	N/A	15 x 12	28.13	27.63	33.25	550.00
6DT3F11MEFSD*	110000	30	460	3	47.4	15 x 12	28.13	27.63	33.25	566.00
6DY3R32M0FSD*	355000	30	460	3	N/A	15 x 12	28.13	27.63	33.25	566.00
6DY3R32MEFSD*	356000	32	460	3	62.10	15 x 12	28.13	27.63	33.25	566.00
6DP3R35M0FSD*	387200	35	460	3	55.0	15 x 12	18.00	22.44	30.19	595.00
6DP3R35MEFSD*[1]	387200	35	460	3	62.6	15 x 12	28.13	27.63	33.25	595.00
6DN3R37MEFSD*	420000	35	460	3	N/A	15 x 12	28.13	27.63	33.25	366.00
6DN3R37M0FSD*	422100	37	460	3	62.5	15 x 12	28.13	27.63	33.25	595.00
6DS3R40MEFSD*[1]	453000	40	460	3	70.0	15 x 12	28.13	27.63	33.25	595.00
6DZNR49MEAWD*	322000	50	460	3	N/A	15 x 12	28.13	27.63	33.25	620.00

[1] Service replacement compressor. Use existing unloading components.



8DP1R56M0TSK

8D SERIES, R22

- Large capacity compressor: 50 to 60 HP
- Mounting dimensions: 18" L x 12" W
- All models have 2 bank unloading
- Oil charge: mineral
- Rated load amps shown 230 V for dual voltage compressors

COPELAND

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
8DP1R56M0TSK*	565700	50	208-230	3	180.0	18 x 12	23.00	21.40	32.81	800.00
8DS1R67M0TSK*	644200	60	208-230	3	224.0	18 x 12	23.00	21.40	32.81	800.00
8DP1R56M0FSD*	565700	50	460	3	91.0	18 x 12	23.00	21.40	32.81	800.00
8DS1R67M0FSD*	644200	60	460	3	96.5	18 x 12	23.00	21.40	32.81	800.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



AKA9427ZXA

AKA SERIES

The AK series compressor has a capacity range of 1/4 to 1 1/2 HP and is ideal for applications in the CBP, LBP, MBP, HBP, and AC range and is available in refrigerants R-12, R-134a, R-22, R-290, R-404A, R-407A, R-407C, R-448A, R-449A, R-452A, and R-513A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AKA9427ZXA*	2700	1/3	115	1	7.8	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	40.00
AKA9428EXA*	2800	1/3	115	1	7.3	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	40.00
AKA2425ZXA*	2450	1/2	115	1	7.9	8 x 4.8	13.00	12.00	14.00	3/4 RL - 1/2 F	5/16 S	50.00
AKA9434AXA*	3350	1/2	115	1	7.75	plate	13.00	11.00	13.00	3/4 RL	1/4 S	42.00
AKA9441AXA*	4100	1/2	115	1	9.2	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	41.00
AKA4460YXA*	6300	1/2	115	1	9.5	8 x 4.8	13.00	11.25	13.25	3/4 RL - 1/2 F	1/4 S	38.00
AKA9451ZXA*	5150	2/3	115	1	9.4	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	43.00
AKA4476YXA*	7680	1/2	115	1	11.3	8 x 4.8	15.00	13.00	13.00	3/4 RL - 1/2 F	1/4 S	38.00
AKA9438ZXA SWT*	3750	3/4	115	1	9.2	plate	13.00	11.00	13.00	3/8 S	1/4 S	46.00
AKA9455ZXA*	5450	3/4	115	1	10.1	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	43.00
AKA9462ZXA*	6250	3/4	115	1	11.9	8 x 4.8	13.00	12.00	13.00	3/4 RL - 1/2 F	1/4 S	42.00
AKA5510EXA*[1]	10000	1	115	1	10.5	None	13.00	11.00	13.00	3/8	1/4	39.00
AKA5512EXA*[1]	12000	1	115	1	12.5	None	13.00	11.00	13.00	1/2	5/16	36.00
AKA9428EXD*	2800	1/3	208-230	1	3.9	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	40.00
AKA4460YXD*	6300	1/2	208-230	1	4.8	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	38.00
AKA4476YXD*	7680	1/2	208-230	1	5.7	8 x 4.8	13.00	12.00	13.00	3/4 RL - 1/2 F	1/4 S	38.00
AKA9442EXD*	4200	1/2	208-230	1	4.0	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	43.00
AKA9438ZXD*	3750	3/4	208-230	1	4.3	plate	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	41.00
AKA9455ZXD*	5450	3/4	208-230	1	5.7	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	44.00
AKA9455EXD*	5500	3/4	208-230	1	4.9	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	43.00
AKA9462ZXD*	6250	3/4	208-230	1	6.8	8 x 4.8	13.00	11.00	13.00	3/4 RL - 1/2 F	1/4 S	44.00
AKA5483EXD*[1]	8300	3/4	208-230	1	4.4	None	13.00	11.00	13.00	3/8	1/4	37.00
AKA5510EXD*[1]	10000	1	208-230	1	5.7	None	13.00	12.00	13.00	3/8	1/4	38.00
AKA5512EXD*[1]	12000	1	208-230	1	6.8	None	13.00	12.00	13.00	1/2	5/16	39.00
AKA5512EXV*[1]	12000	1	265	1	5.5	None	13.00	11.00	13.00	1/2	5/16	39.00
AKA5510EXV*[1]	10000	1	265	1	5.0	None	13.00	11.00	13.00	3/8	1/4	38.00

[1] accepts various removable plates: K6981= 8.0" x 4.8"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


AE3425YAA1A SWT

AE SERIES

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AE3425YAA1A SWT*	2800	1/5	115	1	3.65	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4430ZAA1A SWT*	3450	1/5	115	1	4.5	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4430EDS1A*	4000	1/5	115	1	4.78	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	24.00
AE2410YAA1A SWT*	1168	1/4	115	1	3.11	4 x 6.5	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE3430YAA1A SWT*	3419	1/4	115	1	4.86	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4430YAA1A SWT*	3465	1/4	115	1	5.3	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4430YAA1A VLV*	3465	1/4	115	1	5.3	6.7 x 4	8.80	8.20	11.50	3/8 VLV	1/4 S	28.00
AE2410ZAA1A SWT*	1050	1/3	115	1	3.6	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE2415ZAA1A SWT*	1600	1/3	115	1	4.45	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4440EDS1A SWT*	3200	1/3	115	1	5.71	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	36.00
AE3440YAA1A SWT*	4350	1/3	115	1	6.0	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4440YAA1A SWT*	4350	1/3	115	1	5.82	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	24.54
AE4440YAA1A VLV*	4350	1/3	115	1	5.82	6.7 x 4	8.80	8.20	11.50	Valve	1/4 S	28.00
AE4440ZAA1A SWT*	4350	1/3	115	1	6.7	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00
AE4450YAA1A SWT*	5450	1/3	115	1	7.75	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	32.00
AE4450ZAA1A SWT*	5800	1/3	115	1	8.15	7 x 4.5	8.80	8.20	11.50	3/8 S	1/4 S	32.00
AE2420ZDS1B*	2050	1/2	115	1	5.76	6.7 x 4	8.00	9.00	11.00	5/16 S	1/4 S	28.03
AE4456EDS1B*[1]	5800	1/2	115	1	7.56	None	9.00	12.00	9.00	3/8	1/4	28.00
AE4456YAA1C*	6095	1/2	115	1	8.53	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	38.00
AE4460UAA1C*	6900	1/2	115	1	8.9	7 x 4	9.00	11.00	10.00	5/16 S	1/4 S	22.00
AE4460YAA3C SWT*	6350	1/2	115	1	7.33	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	34.00
AE4470ZAA3C*	8000	3/4	115	1	9.5	6.7 x 4	9.00	12.00	9.00	5/16 S	1/4 S	34.00
AE2413YAA1B*	1300	1/3	115	1	3.45	7 x 4	8.20	8.80	12.80	5/16 S	1/4 S	30.00
AE4440YXN1A SWT*	4350	1/3	208-230	1	2.99	6.7 x 4	8.80	8.20	11.50	5/16 S	1/4 S	28.00

[1] accepts various removable plates: K6981= 8.0" x 4.8"


AWS2512ZXN

AWS SERIES

The AW series compressor has a capacity range of 1/2 to 3 1/2 HP and is ideal for applications in the CBP, LBP, MBP, HBP and AC range and is available in refrigerants R-134a, R-22, R-404A, R-407A, R-407C, R-410A, R-448A, R-449A, and R-452A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
AWS2512ZXN*	6100	1/2	208-230	1	11.3	7.5 x 7.5	13.00	10.00	8.00	94.00
AWS2512ZKZ*	9100	3 1/2	208-230	3	7.4	7.5 x 7.5	13.00	10.00	8.00	94.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



AEX428UDS3C

AEX SERIES

- ENVIRONMENTALLY FRIENDLY Designed for optimal performance with eco-friendly hydrocarbon refrigerant R290 (Propane).
- PROVEN RELIABILITY Leverages robust design attributes developed from 50-years of AE commercial refrigeration experience.
- PRODUCT OFFERING Bolsters the AE2 lineup with six new low/medium temperature models.
- EXPANDED CAPACITY IN BROADER EVAPORATING RANGE 1400-2900 Btu low temp and 2800-5900 Btu medium temp at an expanded evaporating range of -31°F to +23°F (-35°C to -5°C).
- REDUCED ENERGY CONSUMPTION Significant efficiency improvements compared to the legacy AE compressor and non-hydrocarbon refrigerants.
- SERVICE AND SUPPORT Backed by Tecumseh's network of knowledgeable application engineers, test labs & support.

tecumseh

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
AEX428UDS3C*	7700	3/4	115	1	6.4	6.7 x 4	8.00	6.00	10.00	26.00
AEX419UDS1B*	2800	1/2	115	1	4.37	7 x 4	8.00	6.00	10.00	26.00



AZA0370YXA

MEDIUM, R134A R513A

- For applications -10°F to +30°F SST
- Necessary start components supplied
- Rotolock (RL) suction spud supplied with valve
- Quad mounting dimensions: 8.0" x 4.8"
- Charged with POE oil
- Capacity rated: +20°F evaporator / 130°F condensing

tecumseh

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AZA0370YXA*	700	1/12	115	1	2.2	7.25	6.80	10.75	5/16 S	3/16 S	16.10
AZA0395YXA*	950	1/8	115	1	2.9	7.00	7.00	11.00	5/16 S	3/16 S	16.00



AGB5568EKZ

AG SERIES

The AG series compressor has a capacity range of 1 to 6 1/2 HP and is ideal for applications in the CBP, LBP, HBP and AC range and is available in refrigerants R-12, R-1234yf, R-134a, R-22, R-404A, R-407A, R-407C, R-448A, R-449A, R-452A, R-454C, R-455A, and R-513A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
AGB5568EKZ*	68000	5 1/2	208-230	3	20.0	7.5 x 7.5	13.80	15.00	18.00	101.00
AGB5561EKZ*	61000	5	460	3	18.0	7.5 x 7.5	13.80	15.00	18.00	108.00
AGB5561ETZ*	61000	5	460	3	18.0	7.5 x 7.5	13.80	15.00	18.00	108.00
AGB5568ETZ*	68000	5 1/2	460	3	20.0	7.5 x 7.5	13.80	15.00	18.00	101.00
AGB5573ETZ*	72500	6	460	3	10.8	7.5 x 7.5	13.80	15.00	18.00	106.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


THA1358YXA

LOW, R134A

- For applications -30°F to +10°F SST
- Necessary start components supplied
- Quad mounting dimensions: 6.5" x 4.0"
- Charged with POE oil
- Capacity rated: -10°F evaporator / 130°F condensing

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
THA1358YXA*	610	1/5	115	1	1.8	4 x 6.5	8.00	8.00	12.00	5/16	1/4	16.91
THA0410YXA*	1050	1/5	115	1	2.9	6.7 x 4	9.00	10.00	13.00	1/4 S	3/16 S	20.00
THA0370YXA*	805	1/6	115	1	1.91	6.7 x 4	9.00	10.00	13.00	1/4 S	3/16 S	15.48


AWA2440ZXD

LOW, R404A R407A R448A R452A R507

The AW series compressor has a capacity range of 1/2 to 3 1/2 HP and is ideal for applications in the CBP, LBP, MBP, HBP and AC range and is available in refrigerants R-134a, R-22, R-404A, R-407A, R-407C, R-410A, R-448A, R-449A, and R-452A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AWA2440ZXD*	3775	1	208-230	1	5.1	7.5 x 7.5	15.00	13.00	17.00	1 1/4 RL - 5/8 S	5/16 S	64.00
AWA9480ZXN*	6510	1	208-230	1	6.5	7.5 x 7.5	17.00	16.00	18.00	5/8 S	3/8 S	78.00
AWA7512ZXD*	6300	1 1/2	208-230	1	9.5	7.5 x 7.5	15.00	13.00	17.00	1 1/4 RL - 7/8 S	3/8 S	64.00
AWA2460ZXDSWT*	6300	1 1/2	208-230	1	8.2	7.5 x 7.5	13.00	9.00	8.00	5/8 S	3/8 S	72.00
AWA2460ZXDROTO*	6300	1 1/2	208-230	1	8.2	7.5 x 7.5	13.00	9.00	8.00	1 1/4 RL - 7/8 S	3/8 S	72.00
AWA2450ZXD*	6300	1 1/4	208-230	1	5.9	7.5 x 7.5	15.00	13.00	17.00	1 1/4 RL - 7/8 S	3/8 S	48.00
AWA9512ZXN*	11600	1 1/2	208-230	1	8.9	7.5 x 7.5	21.00	14.00	14.00	5/8 S	3/8 S	65.00
AWA7515ZXD*	15400	1 1/2	208-230	1	8.0	7.5 x 7.5	15.00	13.00	17.00	1 1/4 RL - 7/8 S	3/8 S	64.00
AWA2460ZXTSWT*	6300	1 1/2	208-230	3	5.6	7.5 x 7.5	15.00	12.00	13.00	5/8 S	3/8 S	72.00
AWA2460ZXTROTO*	6300	1 1/2	208-230	3	5.6	7.5 x 7.5	15.00	12.00	13.00	1 1/4 RL - 7/8 S	3/8 S	72.00
AWA9512ZXT*	9350	1 1/4	208-230	3	5.5	7.5 x 7.5	21.00	14.00	14.00	5/8 S	3/8 S	65.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



AJ4461AXA1A

AJ SERIES

The AJ series compressor has a capacity range of 1/2 to 1 3/4 HP and is ideal for applications in the CBP, LBP, MBP, HBP, and AC range and is available in refrigerants R-12, R-134a, R-22, R-404A, R-407A, R-407C, R-448A, R-449A, R-452A, and R-513A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
AJ4461AXA1A*	6100	1/4	115	1	9.4	8 x 4.8	13.00	12.00	14.00	47.00
AJ2419ZXA1A*	1898	1/2	115	1	9.6	8 x 4.8	11.00	11.00	12.00	50.00
AJ2425ZXA3A*	2518	1/2	115	1	8.5	8 x 4.8	11.00	11.00	12.00	50.00
AJ2433ZXD3A*	3422	3/4	115	1	7.8	8 x 4.8	11.00	11.00	12.00	60.00
AJ2433ZXA3A*	3504	3/4	115	1	12.0	8 x 4.8	11.00	11.00	12.00	60.00
AJ7461YXA3A*	6120	3/4	115	1	13.9	8 x 4.8	13.00	12.00	12.00	50.00
AJ4492YXA1A*	9009	3/4	115	1	12.7	8 x 4.8	12.00	13.00	12.00	50.00
AJ4492YXD1A*	9063	3/4	208-230	1	7.1	8 x 4.8	12.00	13.00	12.00	51.00
AJ2444ZXD3A*	5051	1	208-230	1	4.8	8 x 4.8	11.00	11.00	12.00	64.00
AJ9484EXD3A*	8400	1	208-230	1	6.3	8 x 4.8	13.00	12.00	13.00	54.00
AJ4512YXD3A*	12636	1	208-230	1	7.1	8 x 4.8	13.00	12.00	12.00	52.00
AJ7494ZXD3A*	10053	1 1/4	208-230	1	12.8	8 x 4.8	13.00	12.00	12.00	58.00
AJ5519EXD3A*	19000	1 1/2	208-230	1	11.6	8 x 4.8	13.00	12.00	12.00	50.00



AWG4520EXN

AWG SERIES

The AW series compressor has a capacity range of 1/2 to 3 1/2 HP and is ideal for applications in the CBP, LBP, MBP, HBP and AC range and is available in refrigerants R-134a, R-22, R-404A, R-407A, R-407C, R-410A, R-448A, R-449A, and R-452A. Available in various 50 Hz and 60 Hz frequencies.

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
AWG4520EXN*	20500	1 3/4	208-230	1	9.3	7.5 x 7.5	15.00	12.00	13.00	1 1/4 RL - 7/8 S	3/8 S	67.00
AWG5519EXN*	19000	1 3/4	208-230	1	8.6	7.5 x 7.5	15.00	12.00	13.00	5/8	3/8	63.00
AWG5524EXN*	24000	2	208-230	1	11.0	7.5 x 7.5	15.00	12.00	13.00	5/8	3/8	64.00
AWG5528EXN*	28000	2 1/4	208-230	3	13.0	7.5 x 7.5	15.00	12.00	13.00	5/8	3/8	64.00
AWG5530EXN*	28900	2 1/2	208-230	3	14.4	7.5 x 7.5	15.00	12.00	13.00	5/8	3/8	64.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ROTARY COMPRESSOR


HGA5512EXV

HG SERIES, R22

- Designed for R22, air conditioning applications
- Sweat connection
- Charged with Synthetic Alkylate
- Capacity rated: 45°F evaporator; 130°F condensing

tecumseh

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
HGA5512EXV*	11500	3/4	265	1	4.3	6.00	7.00	11.00	1/2	5/16	24.00
HGA5512EXD*	11500	3/4	208-230	1	4.3	6.00	7.00	11.00	1/2	5/16	24.00


RGA5460EXA

RK,RG SERIES, R22

- Designed for R22, air conditioning applications
- Replaces rotary compressors commonly found in window air conditioners
- Mount is triangular on listed centers
- Sweat connection
- Capacity rated: 45°F evaporator; 130°F condensing
- Run capacitor required but not provided

tecumseh

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
RGA5460EXA*	6000	1/2	115	1	7.4	5.9 Dia. 3 @ 120°	11.00	6.00	9.00	3/8	5/16	24.00
RGA5492EXV*	9200	3/4	265	1	3.3	5.9 Dia. 3 @ 120°	11.00	6.00	9.00	1/2	5/16	28.00
RGA5510EXA*	10300	1	115	1	9.6	6	11.00	6.00	9.00	1/2	5/16	27.00
RGA5512EXV*	11500	1	265	1	4.3	5.9 Dia. 3 @ 120°	11.00	6.00	9.00	1/2	5/16	30.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCROLL COMPRESSOR



HRP054T1LP6

H* SERIES, R407C, R22

Danfoss H-series scroll compressors are manufactured using the most advanced machining, assembly, and process control techniques. In design of both the compressor and the factory, very high standards of reliability and process control were first priority. The result is a highly efficient product with the highest reliability obtainable, and a low sound level. The H-series compressors can be black or blue depending on the production site.

ENGINEERING TOMORROW

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
HRP054T1LP6*	50900	4 1/2	208-230	1	25.0	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	87.00
HRP060T1LP6*	56100	5	208-230	1	28.9	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	87.00
HRP047T2LP6*	45100	4	208-230	3	16.0	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	67.70
HRP054T2LP6*	50900	4 1/2	208-230	3	17.3	7.5 x 7.5	22.00	14.00	14.00	7/8	1/2	87.00
HRP060T2LP6*	56100	5	208-230	3	16.7	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	87.00
HRP045T4LP6*	43500	3 3/4	460	3	7.7	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
HRP048T4LP6*	44800	4	460	3	7.7	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	72.00
HRP060T4LP6*	56100	5	460	3	9.6	7.5 x 7.5	20.00	12.00	12.00	7/8	1/2	87.00
HLP081T2LC6*	75300	7	208-230	3	21.1	7.5 x 7.5	22.00	15.00	15.00	7/8	3/4	145.00
HLP068T4LC6*	63500	5 1/2	460	3	9.6	7.5 x 7.5	14.00	14.00	16.00	7/8	1/2	82.00
HLP075T4LC6*	73000	6 1/2	460	3	10.3	7.5 x 7.5	24.00	14.00	14.00	7/8	1/2	120.00
HCP094T4LC6*	87500	7 1/2	460	3	13.5	7.5 x 7.5	25.00	15.00	15.00	1 1/8	7/8	144.00
HCP120T4LC6*	110800	10	460	3	19.2	7.5 x 7.5	20.00	12.00	12.00	1 1/8	7/8	100.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MULTI APPLICATION HERMETIC COMPRESSOR


MTZ18JA1

MEDIUM TEMPERATURE

Replaces many Trane, American Standard OEM compressors. Designed with large internal open area to reduce liquid hammering. Entirely suction cooled, no external cooling required. Built for long lasting, transient tolerant performance. Tripod mount on 1 and 2 cylinder models (up to MTZ80). 9.7" square mount 4 cylinder MTZ100 and larger. Rotolock connections; sweat spuds provided. Charged with POE oil. Must order MTZ models for use with HFC refrigerants

Maneurop Inc.

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
MTZ18JA1*	18000	1 1/2	208-230	1	7.64	Tripod	12.60	31.50	42.28	1 RL - 1/2	1RL - 3/8	50.00
MTZ22JC1*	22000	2	208-230	1	10.27	Tripod	13.50	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	50.00
MTZ28JE1*	28000	2 1/2	208-230	1	12.67	Tripod	13.50	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	55.00
MTZ32JG1*	32000	2 3/4	208-230	1	14.26	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	15.00
MTZ36JG1*	36000	3	208-230	1	17.76	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ40JH1*	40000	3 1/2	208-230	1	21.95	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ44HJ1*	41000	4	208-230	1	19.04	Tripod	15.90	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ50HK1*	50000	4 1/2	208-230	1	19.04	Tripod	15.90	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ64HM1*	64000	5 1/2	208-230	1	30.84	Tripod	15.90	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ18JA3*	18000	1 1/2	208-230	3	6.1	Tripod	12.60	31.50	42.28	1 RL - 1/2	1RL - 3/8	50.00
MTZ22JC3*	22000	2	208-230	3	7.38	Tripod	13.50	31.50	42.28	1 RL - 1/2	1RL - 3/8	50.00
MTZ28JE3*	28000	2 1/2	208-230	3	9.38	Tripod	13.50	31.50	42.28	1 RL - 1/2	1RL - 3/8	55.00
MTZ32JG3*	32000	2 3/4	208-230	3	10.13	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ36JG3*	36000	3	208-230	3	11.92	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	12.32
MTZ40JH3*	40000	3 1/2	208-230	3	15.32	Tripod	12.60	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ44HJ3*	44000	4	208-230	3	15.79	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ50HK3*	50000	4 1/2	208-230	3	17.08	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ64HM3*	64000	5 1/2	208-230	3	21.39	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ72HN3*	72000	6	208-230	3	25.31	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ80HP3*	80000	7	208-230	3	27.63	Tripod	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	90.00
MTZ100HS3*	100000	9	208-230	3	27.79	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	145.00
MTZ125HU3*	125000	10.5	208-230	3	38.54	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	150.00
MTZ144HV3*	144000	12	208-230	3	41.9	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	155.00
MTZ160HW3*	160000	13 1/2	208-230	3	48.17	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	165.00
MTZ18JA4*	18000	1 1/2	460	3	2.81	Tripod	21.26	31.50	42.28	1 RL - 1/2	1RL - 3/8	50.00
MTZ22JC4*	22000	2	460	3	3.44	Tripod	21.26	31.50	42.28	1 RL - 1/2	1RL - 3/8	50.00
MTZ28JE4*	28000	2 1/2	460	3	4.41	Tripod	21.26	31.50	42.28	1 RL - 1/2	1RL - 3/8	55.00
MTZ32JG4*	32000	2 3/4	460	3	4.81	Tripod	21.26	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ36JG4*	36000	3	460	3	5.79	Tripod	21.26	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ40JH4*	40000	3 1/2	460	3	6.69	Tripod	21.26	31.50	42.28	1 1/4 RL - 5/8	1RL - 1/2	60.00
MTZ44HJ4*	44000	4	460	3	6.84	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ50HK4*	50000	4 1/2	460	3	7.34	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	85.00
MTZ56HL4*	56000	5	460	3	8.41	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ64HM4*	64000	5 1/2	460	3	9.48	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ72HN4*	72000	6	460	3	10.79	Tripod	21.26	31.50	42.28	1 3/4 RL - 7/8	1 1/4RL - 3/4	90.00
MTZ80HP4*	80000	7	460	3	12.36	Tripod	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	90.00
MTZ100HS4*	100000	9	460	3	14.24	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	145.00
MTZ125HU4*	125000	10 1/2	460	3	18.06	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	150.00
MTZ144HV4*	144000	12	460	3	19.81	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	155.00
MTZ160HW4*	160000	13 1/2	460	3	22.49	9.7 x 9.7	21.26	31.50	42.28	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	165.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



NTZ048A1LR1A

LOW, POE OIL, R404A

Approved for R404A/R507. Rotolock connections; sweat spuds provided.

- Run capacitor required, not provided.
- Application range: For R404A applications: at 100°F condensing -5°F to -45°F; at 140°F condensing -5°F to -30°F
- Capacity rated R404A, -20°F SST, 120°F condensing

Maneurop Inc.

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NTZ048A1LR1A*	4156	2	208-230	1	6.95	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	52.00
NTZ068A1LR1A*	6039	2 1/2	208-230	1	9.16	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	52.00
NTZ108A1LR1A*	10121	4	208-230	1	16.7	Tripod	17.70	14.80	15.20	1 3/4 RL - 7/8	1 1/4RL - 3/4	77.00
NTZ136A1LR1A*	12930	4 1/2	208-230	1	21.38	Tripod	17.70	14.80	15.20	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	77.00
NTZ048A3LR1A*	4101	2	208-230	3	4.57	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	52.00
NTZ068A3LR1A*	6993	2 1/2	208-230	3	7.35	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	52.00
NTZ108A3LR1A*	9875	4	208-230	3	9.57	Tripod	17.70	14.80	15.20	1 3/4 RL - 7/8	1 1/4RL - 3/4	88.00
NTZ136A3LR1A*	12930	4 1/2	208-230	3	13.05	Tripod	17.70	14.80	15.20	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	77.00
NTZ215A3LR1A*	19388	7 1/2	208-230	3	19.67	9.7 x 9.7	26.40	15.75	22.50	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	149.00
NTZ271A3LR1A*	27602	9	208-230	3	24.01	9.7 x 9.7	26.40	15.75	22.50	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	157.00
NTZ048A4LR1A*	4101	2	460	3	2.29	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	52.00
NTZ068A4LR1A*	6993	2 1/2	460	3	3.88	Tripod	14.50	11.20	15.20	1 1/4 RL - 5/8	1RL - 1/2	57.00
NTZ136A4LR1A*	12930	4 1/2	460	3	6.62	Tripod	17.70	14.80	15.20	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	94.00
NTZ215A4LR1A*	19388	7 1/2	460	3	8.97	9.7 x 9.7	26.40	15.75	22.50	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	149.00
NTZ271A4LR1A*	27602	9	460	3	11.59	9.7 x 9.7	26.40	15.75	22.50	1 3/4 RL - 1 1/8	1 1/4RL - 3/4	157.00



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HERMETIC RECIPROCATING COMPRESSOR



EMI50UER1

EM SERIES, R290

Embraco mini compact compressor designed to operate with natural refrigerant R290. Popular with OEMs for its low sound and vibration levels and high efficiency.

- Charged with POE oil

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
EMI50UER1*	780	1/6	115	1	6.7 x 4	8.00	8.00	13.00	0.32	0.26	17.52
EMX3115U1*	1546	1/5	115	1	6.7 x 4	8.00	8.00	13.00	0.26	0.26	17.00
EMI70UER1*	1538	1/5+	115	1	6.7 x 4	8.00	8.00	13.00	0.32	0.26	17.84
EMC3121U1*	2237	1/4	115	1	6.7 x 4	8.00	8.00	13.00	0.26	0.26	17.00
EMC3125U1*	2584	1/4	115	1	6.7 x 4	8.00	8.00	13.00	0.26	0.26	17.00
EMI90UEX1*	1798	1/4+	115	1	6.7 x 4	8.00	8.00	13.00	0.26	0.26	17.84



EMI45ER1

EM SERIES

Embraco mini compact compressor. Popular with OEMs for its low sound and vibration levels and high efficiency.

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
EMI45ER1*	485	1/8	115	1	6.7 x 4	8.00	8.00	13.00	1/4	3/16	19.00
EMI55HER1*	510	1/6	115	1	6.7 x 4	8.00	8.00	13.00	1/4	3/16	18.84
EMI55ER1*	570	1/6	115	1	6.7 x 4	8.00	8.00	13.00	1/4	3/16	18.82
EMI60HER1*	570	1/6	115	1	6.7 x 4	8.00	8.00	13.00	1/4	1/4	18.84



FFU130UAX1

FF SERIES, R290

High efficiency version F series, designed for use of natural refrigerant R290 Propane.

- Charged with POE oil

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
FFU130UAX1*	2447	1/3+	115	1	6.7 x 4	8.00	8.00	13.00	0.32	0.26	24.00
FFU160UAX1*	2969	1/2	115	1	6.7 x 4	8.00	8.00	13.00	0.32	0.26	24.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR



NT2210UV1

NT SERIES, R290

Robust design and proven commercial refrigeration performance. Designed for natural refrigerant R290 propane.

- Charged with POE oil

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NT2210UV1*	4514	1	115	1	8 x 4.8	9.00	8.50	14.00	0.38	0.25	40.80
NT2180UV2*	3577	1	208-230	1	8 x 4.8	9.00	8.50	14.00	0.38	0.25	40.58
NT2210UV2*	4514	1 1/4	208-230	1	8 x 4.8	9.00	8.50	14.00	0.38	0.25	42.79



NT2134Z1

NT/NTU SERIES

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NT2134Z1*	1595	1/2	115	1	8 x 4.8	8.00	9.00	11.00	3/8	1/4	26.75
NT6215Z1*	6626	1/2+	115	1	8 x 4.8	11.00	13.00	11.00	3/8	1/4	33.00
NT6217Z1*	7460	3/4	115	1	8 x 4.8	8.00	9.00	11.00	3/8	1/4	17.26
NT6220Z1*	8414	1	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.48
NT6215Z2*	6626	1/2+	208-230	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.48
NT6217Z2*	3909	3/4	208-230	1	8 x 4.8	11.00	13.00	11.00	3/8	1/4	32.50
NT6220Z2*	8414	1	208-230	1	8 x 4.8	7.00	12.00	14.00	3/8	1/4	39.92
NT2168GK1*	2628	3/4	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.90
NT2180GK1*	3892	1	115	1	8 x 4.8	7.00	12.00	14.00	3/8	1/4	40.00
NT2168GK2*	2694	3/4	208-230	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.90
NT2180GK2*	3822	1	208-230	1	8 x 4.8	10.50	8.50	14.00	3/8	1/4	42.00
NT2212GKV1*	5170	1/3	115	1	8 x 4.8	13.00	13.00	14.00	3/8	1/4	52.00
NT6220GKV1*	4993	3/4	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.48
NT6217GKV1*	7370	3/4	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.48
NT6222GKV1*	10375	1	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.48
NT6224GKV1*	12326	1	115	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.26
NT6226GKV1*	13254	1+	115	1	8 x 4.8	7.00	9.00	13.00	3/8	1/4	40.58
NT2192GKV1*	3224	1 1/4	115	1	8 x 4.8	7.00	9.00	13.00	3/8	1/4	40.58
NT2212GKV2*	5710	1/2	208-230	1	8 x 4.8	13.00	13.00	14.00	3/8	1/4	52.00
NT2168GKV2*	2694	3/4	208-230	1	8 x 4.8	9.90	10.70	7.30	3/8	1/4	38.82
NT6217GKV2*	7380	3/4	208-230	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.45
NT6220GKV2*	8464	3/4	208-230	1	8 x 4.8	8.00	9.00	11.00	3/8	1/4	32.00
NT6222GKV2*	9992	1	208-230	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.00
NT6224GKV2*	11984	1	208-230	1	8 x 4.8	8.00	7.00	10.00	3/8	1/4	39.15
NT6226GKV2*	13258	1+	208-230	1	8 x 4.8	7.00	9.00	13.00	3/8	1/4	40.50
NT2192GKV2*	3246	1 1/4	208-230	1	8 x 4.8	10.50	8.50	14.00	3/8	1/4	41.68
NTU6232GKV2*	13760	1+	208-230	1	8 x 4.8	10.50	8.50	14.00	1/2	3/8	41.90
NTU6238GKV2*	17590	1 1/2	208-230	1	8 x 4.8	10.50	8.50	14.00	1/2	3/8	43.06
NTU6240GKV2*	18318	1 1/2	208-230	1	8 x 4.8	10.50	8.50	14.00	1/2	3/8	42.34

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


NEU2155U1

NEU SERIES, R290

Commercial refrigeration compressor designed for natural refrigerant R290 propane. High cooling capacity and efficiency.

- Charged with POE oil

embraco Nidec

						Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NEU2155U1*	2586	1/2	115	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	26.25
NEU2168U1*	3241	3/4	115	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	27.57
NEU6214U1*	4230	3/4	115	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	27.35
NEU6217U1*	5190	3/4	115	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	27.62
NEU2168U2*	3241	3/4	208-230	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	27.35
NEU6214U2*	4230	3/4	208-230	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	26.67
NEU6217U2*	5190	3/4	208-230	1	6.7 x 4	8.50	7.50	12.00	0.32	0.25	27.46


NEK6132Z1

NEK SERIES

Replacements for Trenton fractional condensing units and other compressors with similar operating properties

embraco Nidec

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NEK6132Z1*	1762	1/6	115	1	N/A	6.5 x 4	7.40	6.37	9.68	5/16 S	1/4 S	24.05
NEK6144Z1*	2183	1/6+	115	1	N/A	6.5 x 4	7.40	6.37	9.68	5/16 S	1/4 S	24.27
NEK6170Z1*	3336	1/4+	115	1	N/A	6.5 x 4	8.30	13.00	11.00	5/16 S	1/4 S	23.80
NEK6187Z1*	3830	1/3+	115	1	N/A	6.5 x 4	8.50	13.00	11.00	5/16 S	1/4 S	25.40
NEK6210Z1*	4524	1/3+	115	1	6.8	6.5 x 4	7.00	12.00	14.00	5/16 S	1/4 S	25.50
NEK2140Z1*	1706	1/2	115	1	6.5	6.5 x 4	8.50	9.68	6.37	5/16 S	1/4 S	26.25
NEK6212Z1*	5178	1/2	115	1	N/A	6.5 x 4	8.00	9.00	12.00	5/16 S	1/4 S	25.50
NEK6214Z1*	5960	3/4	115	1	N/A	6.5 x 4	8.00	12.00	14.00	5/16 S	1/4 S	27.57
NEK6214Z2*	5960	3/4	208-230	1	N/A	6.5 x 4	8.50	12.00	14.00	5/16 S	1/4 S	27.13
NEK2121GK1*	1212	1/3	115	1	4.04	6.5 x 4	8.00	8.00	13.00	3/8 S	1/4 S	22.90
NEK6181GK1*	4255	1/3	115	1	6.7	6.5 x 4	8.30	12.00	14.00	5/16 S	1/4 S	24.00
NEK2125GK1*	1458	1/3+	115	1	4.28	6.5 x 4	8.00	9.68	6.37	5/16 S	1/4 S	34.00
NEK2134GK1*	2513	1/2	115	1	4.1	6.5 x 4	8.00	8.00	13.00	5/16 S	1/4 S	24.30
NEK6210GK1*	5355	1/2	115	1	8.2	6.5 x 4	7.00	12.00	14.00	5/16 S	1/4 S	23.80
NEK2150GK1*	3876	1/2+	115	1	3.9	6.5 x 4	7.00	12.00	14.00	5/16 S	1/4 S	25.60
NEK6213GK1*	6660	1/2+	115	1	12.8	6.5 x 4	7.00	12.00	14.00	5/16 S	1/4 S	23.80
NEK6181GK2*	4255	1/3+	208-230	1	N/A	6.5 x 4	7.40	6.37	9.68	5/16 S	1/4 S	24.93
NEK2134GK2*	1948	1/2	208-230	1	N/A	6.5 x 4	8.00	6.37	9.68	5/16 S	1/4 S	27.57
NEK6210GK2*	5355	1/2	208-230	1	N/A	6.5 x 4	8.50	6.37	9.68	5/16 S	1/4 S	27.35
NEK6213GK2*	6660	1/2+	208-230	1	N/A	6.5 x 4	8.50	6.37	9.68	5/16 S	1/4 S	28.12
NEK2150GK2*	2493	1/2+	208-230	1	N/A	6.5 x 4	8.50	6.37	9.68	5/16 S	1/4 S	27.57

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HERMETIC RECIPROCATING COMPRESSOR

NJ SERIES



NJ6220Z1

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
NJ6220Z1*	10169	1	115	1	9.0	8 x 4.8	11.00	8.50	14.00	3/8 S	1/4 S	46.00
NJ6220Z2*	10160	1	208-230	1	9.5	8 x 4.8	11.00	8.50	14.00	3/8 S	1/4 S	46.64
NJ7225F2*	11520	1	208-230	1	7.8	8 x 4.8	10.50	8.50	14.00	3/8 S	1/4 S	44.50
NJ9232E2*	7943	1 1/4	208-230	1	5.4	8 x 4.8	11.00	8.50	14.00	1/2 S	5/16 S	50.72
NJ6226Z2*	11130	1 1/4	208-230	1	9.0	8 x 4.8	11.00	8.50	14.00	3/8 S	1/3 S	45.76
NJ7231F2*	14394	1 1/4	208-230	1	8.2	8 x 4.8	11.00	8.50	14.00	3/8 S	5/16 S	47.00
NJ7238E2*	17676	1 1/2	208-230	1	9.0	8 x 4.8	11.00	8.50	14.00	1/2 S	5/16 S	51.00
NJ7240F2*	19366	1 1/2	208-230	1	9.6	8 x 4.8	11.00	8.50	14.00	1/2 S	5/16 S	50.50
NJ2212GK1*	5444	3/4	115	1	10.8	8 x 4.8	10.90	8.50	14.00	1/2 S	1/4 S	53.30
NJ2192GK1*	4500	1 1/2	115	1	4.9	8 x 4.8	10.90	8.50	14.00	1/2 S	1/4 S	53.50
NJ9226GK2*	7300	1+	208-230	1	7.8	8 x 4.8	11.00	8.50	14.00	3/8 S	5/16 S	45.63
NJ2192GJ2*	4775	1 1/4	208-230	1	5.4	8 x 4.8	10.90	8.50	14.00	1/2 S	5/16 S	53.30
NJ2212GJ2*	6309	1 1/2	208-230	1	5.4	8 x 4.8	10.90	8.50	14.00	1/2 S	1/4 S	53.00
NJ9238GK2*	11432	1 1/2	208-230	1	9.6	8 x 4.8	11.00	8.50	14.00	1/2 S	1/3 S	50.00

FF SERIES



FF6HBK1

							Dimensions (In.)			Connection Size (In.)		
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
FF6HBK1*	570	1/7	115	1	2.12	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	23.90
FF7.5HBK1*	630	1/7	115	1	2.3	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	23.90
FF8.5HBK1*	3135	1/5	115	1	2.88	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	23.90
FFC60BK1*	2791	1/5+	115	1	N/A	6.5 x 4	8.00	8.60	13.00	5/16 S	1/4 S	25.70
FF8.5BK1*	3135	1/5+	115	1	2.88	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	23.00
FF10BX1*	3240	1/4	115	1	3.25	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	23.90
FF10HBK1*	3240	1/4	115	1	3.61	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	24.10
FF10HBX1*	3240	1/4	115	1	5.25	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	24.40
FF11.5BK1*	4000	1/4	115	1	4.26	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	25.40
FF10BK1*	3240	1/4+	115	1	N/A	6.5 x 4	8.20	8.60	13.00	5/16 S	1/4 S	25.68
FFI12HBX1*	1190	1/3	115	1	6.8	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	25.00
FFI10HBX1*	4400	1/3	115	1	N/A	6.5 x 4	8.13	8.60	13.00	5/16 S	1/4 S	24.50
FFI12BX1*	5000	1/3	115	1	6.8	6.5 x 4	8.20	8.60	13.00	1/4 S	1/4 S	26.80
FFU130HAX*[1]	1250	1/3+	115	1	N/A	6.5 x 4	7.91	8.60	13.00	5/16 S	1/4 S	30.00

[1] High efficiency version of the "FF" series, popular in OEM low and medium temperature applications.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR

BITZER SEMI-HERMETIC COMPRESSOR

C1 to C8 Series

- One compressor version for R134a, R404A, R448A, R449A, R502, R507A, R407C, R22 refrigerants (with oil change)
- Wide application range
- High cooling capacity and minimal energy requirements through efficient valves, minimal dead space, efficient large volume motor
- Quiet, minimal vibration through optimised mass balance, integrated pulsation mufflers (C2 to B6 series)
- Solid valve plate design
- Thermal motor monitoring PTC sensors

C1 to C4 Octagons

- PTFE coated bearings
- Extremely low height
- Shut off valves within compressor contour (C1 to C3)
- Easy switching from suction gas cooling to air cooling at the same connection (C1 to C3)



2KES052DU0D

2 CYLINDER, HIGH TEMP, LESS OIL

- R22, R134a, R404A, R407C, R448A, R449A, R502, R507

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
2KES052DU0D*	1/2	208-230	3	5.5	6.38 x 8.19	10.00	8.00	14.00	5/8	1/2	95.00
2JES072DU0D*	3/4	208-230	3	7.1	6.38 x 8.19	10.00	8.00	14.00	5/8	1/2	103.00
2HES22DU0D*	2	208-230	3	8.7	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2GES22DU0D*	2	208-230	3	9.5	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2EES32DU0D*	3	208-230	3	14.1	7.80 x 8.78	15.00	12.00	16.00	7/8	5/8	155.00
2DES32DU0D*	3	208-230	3	15.8	7.80 x 8.78	15.00	12.00	16.00	7/8	5/8	155.00
2FES32DU0D*	3	208-230	3	11.8	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	104.00
2CES42DU0D*	4	208-230	3	19.0	7.80 x 8.78	15.00	16.00	16.00	7/8	5/8	167.00
2JES074SU0D*	3/4	460	3	3.6	6.38 x 8.19	10.00	8.00	14.00	5/8	1/2	103.00
2KES054SU0D*	1/2	460	3	2.8	6.38 x 8.19	10.00	8.00	14.00	5/8	1/2	95.00
2HES24SU0D*	2	460	3	4.4	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2GES24SU0D*	2	460	3	4.8	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2FES34SU0D*	3	460	3	5.9	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	104.00
2EES34SU0D*	3	460	3	7.0	7.80 x 8.78	15.00	12.00	16.00	7/8	5/8	155.00
2DES34SU0D*	3	460	3	7.9	7.80 x 8.78	15.00	12.00	16.00	7/8	5/8	155.00
2CES44SU0D*	4	460	3	9.5	7.80 x 8.78	15.00	16.00	16.00	7/8	5/8	167.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR


4FES52DU0D

4 CYLINDER, HIGH TEMP, LESS OIL

- D1 models include 1 bank unloading
- R22, R134a, R404A, R407C, R448A, R449A, R502, R507

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
4FES52DU0D*	5	208-230	3	21.8	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	190.00
4CES62DU1D*	6	208-230	3	20.4	7.8 x 11.54	16.00	16.00	18.00	1 1/8	7/8	215.00
4EES62DU0D*	6	208-230	3	26.7	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	190.00
4DES72DU0D*	7	208-230	3	31.9	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES92DU0D*	9	208-230	3	40.0	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	200.00
4VE102NU0D*	10	208-230	3	37.2/18.6	10.08 x 14.49	24.00	24.00	28.00	1 1/8	7/8	315.00
4TE122NU0D*	12	208-230	3	45.8/22.9	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	326.00
4TE122NU1D*	12	208-230	3	45.8/22.9	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	326.00
4PE152NU1D*	15	208-230	3	53.4/26.7	10.08 x 14.49	24.00	24.00	28.00	1 5/8	1 1/8	345.00
4NE202NU1D*	20	208-230	3	63.6/31.8	10.08 x 14.49	24.00	24.00	28.00	1 5/8	1 1/8	337.00
4JE222NU0D*	22	208-230	3	69.8/34.9	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	419.00
4JE222NU1D*	22	208-230	3	69.8/34.9	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	419.00
4HE252NU1D*	25	208-230	3	80.8/40.4	12 x 15	24.00	24.00	28.00	2 1/8	1 1/8	448.00
4GE302NU1D*	30	208-230	3	98.4/49.2	12 x 15	24.00	24.00	28.00	2 1/8	1 1/8	454.00
4FES54SU0D*	5	460	3	10.9	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	190.00
4CES64SU1D*	6	460	3	15.00	7.8 x 11.54	16.00	16.00	18.00	1 1/8	7/8	240.00
4EES64SU0D*	6	460	3	13.4	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	190.00
4EES64SU1DR*	6	460	3	13.4	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	185.00
4DES74SU0D*	7	460	3	15.9	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES94SU0D*	9	460	3	20.0	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	200.00
4CES94SU1D*	9	460	3	20.0	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	200.00


2HES12DU0D

2 CYLINDER, LOW TEMP, LESS OIL

- R22, R134a, R404A, R407C, R448A, R449A, R502, R507

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
2HES12DU0D*	1	208-230	3	6.8	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2DES22DU0D*	2	208-230	3	13.4	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	160.00
2EES22DU0D*	2	208-230	3	11.4	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	115.00
2FES22DU0D*	2	208-230	3	9.6	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	115.00
2CES32DU0D*	3	208-230	3	16.1	7.8 x 8.78	15.00	16.00	16.00	7/8	5/8	170.00
2HES14SU0D*	1	460	3	3.4	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2DES24SU0D*	2	460	3	6.7	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	160.00
2EES24SU0D*	2	460	3	5.7	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	115.00
2FES24SU0D*	2	460	3	4.8	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	115.00
2CES34SU0D*	3	460	3	8.8	7.8 x 8.78	15.00	16.00	16.00	7/8	5/8	170.00

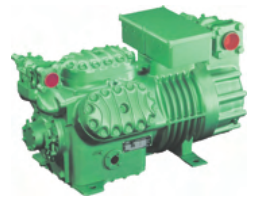
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


4FES32DU0D

4 CYLINDER, LOW TEMP, LESS OIL

- R22, R134a, R404A, R407C, R448A, R449A, R502, R507

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
4FES32DU0D*	3	208-230	3	17.9	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	181.00
4EES42DU0D*	4	208-230	3	20.7	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	185.00
4DES52DU0D*	5	208-230	3	25.4	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4DES52DU1DR*	5	208-230	3	25.4	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES62DU0D*	6	208-230	3	32.1	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	215.00
4TE92NU0D*	8	208-230	3	33.1/16.6	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	326.00
4PE122NU0D*	10	208-230	3	39.6/19.8	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	365.00
4NE142NU0D*	12	208-230	3	47.0/23.5	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	337.00
4JE152NU1D*	13	208-230	3	53.0/26.5	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	460.00
4JE152NU2D*	13	208-230	3	53.0/26.5	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	460.00
4HE182NU0D*	15	208-230	3	60.2/30.1	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	450.00
4JE152NU0D*	15	208-230	3	53.0/26.5	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	460.00
4GE232NU0D*	20	208-230	3	71.2/35.6	12 x 15	24.00	24.00	28.00	2 1/8	1 1/8	435.00
4FES34SU0D*	3	460	3	9.0	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	181.00
4EES44SU0D*	4	460	3	10.3	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	185.00
4DES54SU0D*	5	460	3	12.7	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES64SU0D*	6	460	3	16.0	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	215.00


6JE252NU0D

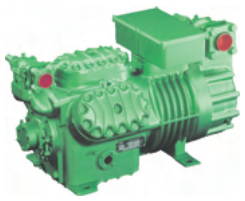
6 CYLINDER, LOW TEMP, LESS OIL

- D2 suffix models have 2 bank unloading
- R22, R134a, R404A, R407C, R448A, R449A, R502, R507

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
6JE252NU0D*	22	208-230	3	80.0/40.0	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	470.00
6HE282NU0D*	25	208-230	3	92.0/46.0	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	550.00
6GE342NU0D*	30	208-230	3	106.0/53.1	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	535.00
6GE342NU2D*	30	208-230	3	106.0/53.1	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	525.00
6FE442NU0D*	40	208-230	3	129.0/64.6	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	527.00
6FE442NU2D*	40	208-230	3	129.0/64.6	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	527.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



6JE332NU2D

6,8 CYLINDER, HIGH TEMP, AB OIL

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
6JE332NU2D*[1]	33	208-230	3	105.0/52.6	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	509.00
6FE502NU0D*[1]	50	208-230	3	182.0/91.0	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	671.00
6FE502NU2D*[1]	50	208-230	3	182.0/91.0	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	527.00

[1] Less Oil



2KES052DU0Y

2 CYLINDER, LOW TEMP, POE OIL

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
2KES052DU0Y*	1/2	208-230	3	5.5	6.38 x 8.19	10.00	8.00	14.00	5/8	1/2	95.00
2JES072DU0Y*	3/4	208-230	3	7.1	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	103.00
2HES12DU0Y*	1	208-230	3	6.8	6.38 x 8.19	10.00	8.00	15.00	5/8	1/2	120.00
2DES22DU0Y*	2	208-230	3	13.4	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	160.00
2EES22DU0Y*	2	208-230	3	11.4	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	115.00
2FES22DU0Y*	2	208-230	3	9.6	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	115.00
2CES32DU0Y*	3	208-230	3	16.1	7.8 x 8.78	15.00	16.00	16.00	7/8	5/8	170.00
2DES24SU0Y*	2	460	3	6.7	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	160.00
2EES24SU0Y*	2	460	3	5.7	7.8 x 8.78	15.00	12.00	16.00	7/8	5/8	115.00
2FES24SU0Y*	2	460	3	4.8	6.38 x 8.19	14.00	12.00	14.00	5/8	1/2	115.00
2CES34SU0Y*	3	460	3	8.8	7.8 x 8.78	15.00	16.00	16.00	7/8	5/8	170.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


4FES32DU0Y

4 CYLINDER, LOW TEMP, POE OIL

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
4FES32DU0Y*	3	208-230	3	17.9	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	181.00
4EES42DU0Y*	4	208-230	3	20.7	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	185.00
4DES52DU0Y*	5	208-230	3	25.4	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES62DU0Y*	6	208-230	3	32.1	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	215.00
4TE92NU0Y*	8	208-230	3	33.1/16.6	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	326.00
4TE92NU1D*[1]	8	208-230	3	33.1/16.6	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	326.00
4PE122NU0Y*	10	208-230	3	39.6/19.8	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	345.00
4PE122NU1D*[1]	10	208-230	3	39.6/19.8	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	190.00
4NE142NU0Y*	12	208-230	3	47.0/23.5	10.08 x 14.49	24.00	24.00	28.00	1 3/8	1 1/8	337.00
4JE152NU0Y*	13	208-230	3	53.0/26.5	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	460.00
4HE182NU0Y*	15	208-230	3	60.2/30.1	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	420.00
4HE182NU1D*[1]	15	208-230	3	60.2/30.1	12 x 15	24.00	24.00	28.00	1 5/8	1 1/8	448.00
4GE232NU0Y*	20	208-230	3	71.2/35.6	12 x 15	24.00	24.00	28.00	2 1/8	1 1/8	435.00
4FES34SU0Y*	3	460	3	9.0	7.8 x 11.54	16.00	16.00	18.00	7/8	5/8	181.00
4EES44SU0Y*	4	460	3	10.3	7.8 x 11.54	16.00	16.00	18.00	1 1/8	5/8	185.00
4DES54SU0Y*	5	460	3	12.7	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4DES54SU1D*[1]	5	460	3	12.7	7.8 x 11.54	16.00	16.00	20.00	1 1/8	7/8	205.00
4CES64SU0Y*	6	460	3	16.0	7.8 x 11.54	18.00	16.00	20.00	1 1/8	7/8	215.00

[1] Less Oil



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



6JE252NU0Y

6 CYLINDER, LOW TEMP, POE OIL

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
6JE252NU0Y*	22	208-230	3	80.0/40.0	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	470.00
6JE252NU2D*[1]	22	208-230	3	80.0/40.0	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	490.00
6HE282NU2D*[1]	25	208-230	3	92.0/46.0	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	540.00
6GE342NU0Y*	30	208-230	3	106.0/53.1	12 x 15	26.00	26.00	32.00	2 1/8	1 3/8	535.00
6FE442NU0Y*	40	208-230	3	129.0/64.6	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	528.00
6FE502NU2Y*	50	208-230	3	182.0/91.0	12 x 15	26.00	26.00	32.00	2 1/8	1 5/8	527.00

[1] Less Oil

MEDIUM TEMPERATURE

- Range 20 to 90 HP
- Suitable for low and medium temperature applications
- Oil separator required; not provided
- Low noise and vibration
- Rated for use with R22, R404A, R407C, R448A, R449A, R507 (R-134a for medium temperature applications only)
- Rated load amps shown 230V for dual voltage compressors Includes suction service valve, capacity control



HSK5343-30-2NU

MEDIUM TEMPERATURE

- R22, R134a, R404A, R407C, R448A, R449A, R507

					Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	H	W	L	Ship Wgt (Lbs.)
HSK5343-30-2NU*	30	208-230	3	92	16.93	17.05	29.80	375.00
HSK5353-35-2NU*	35	208-230	3	121	16.93	17.23	29.80	400.00
HSK5363-40-2NU*	40	208-230	3	130	16.93	17.23	29.80	400.00
HSK6451-50-4PU*	50	460	3	79	17.00	20.00	36.00	524.00
HSK6461-60-4PU*	60	460	3	98	17.00	20.00	36.00	541.00
HSK7461-80-4PU*	80	460	3	126	17.00	21.00	41.00	691.00
HSK7471-90-4PU*	90	460	3	146	17.00	21.00	43.00	739.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



HSN5343-20-2NU

LOW TEMPERATURE

- R134a, R404A, R502, R507

					Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	H	W	L	Ship Wgt (Lbs.)
HSN5343-20-2NU*	20	208-230	3	81	16.93	17.05	29.80	366.00
HSN5353-25-2NU*	25	208-230	3	85	16.93	17.23	29.80	374.00
HSN5363-30-2NU*	30	208-230	3	104	16.93	17.23	29.80	392.00
HSN6461-50-4PU*	50	460	3	79	17.00	20.00	36.00	524.00
HSN7461-70-4PU*	70	460	3	103	17.00	21.00	41.00	682.00
HSN7471-75-4PU*	75	460	3	119	17.00	21.00	41.00	717.00
HSN7473-75-4PU*	75	460	3	166	16.62	20.59	41.06	717.00



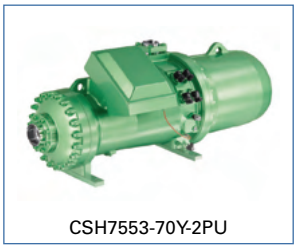
CSH7563-80-2PU

R22

						Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	H	W	L	Ship Wgt (Lbs.)
CSH7563-80-2PU*	853000	80	208-230	3	263.0	23.56	22.25	52.94	1085.00
CSH7573-90-2PU*	992000	90	208-230	3	305.0	23.56	22.25	52.94	1091.00
CSH8553-110-2PU*	1200000	110	208-230	3	355.0	28.56	27.75	60.63	1749.00
CSH8563-125-2PU*	1388000	125	208-230	3	396.0	28.56	27.75	60.63	1766.00
CSH8573-140-2PU*	1624000	140	208-230	3	449.0	28.56	27.75	60.63	1788.00
CSH6563-60-4PU*	639000	60	460	3	102.0	21.81	22.13	43.56	693.00
CSH7553-70-4PU*	724000	70	460	3	120.0	23.56	22.25	52.94	1058.00
CSH7561-80-4PU*	853000	80	460	3	120.0	24.00	23.00	53.00	1076.00
CSH7563-80-4PU*	853000	80	460	3	126.0	23.56	22.25	52.94	1076.00
CSH7573-90-4PU*	992000	90	460	3	146.0	23.56	22.25	52.94	1091.00
CSH8553-110-4PU*	1200000	110	460	3	178.0	28.56	27.75	60.63	1749.00
CSH8563-125-4PU*	1388000	125	460	3	198.0	28.56	27.75	60.63	1762.00
CSH8573-140-4PU*	1624000	140	460	3	224.0	28.56	27.75	60.63	1784.00
CSH9553-180-4DU*	2057000	180	460	3	330.0	34.13	27.69	77.00	2734.00
CSH9563-210-4DU*	2408000	210	460	3	370	34.13	27.69	77.00	2778.00
CSH9573-240-4DU*	2805000	240	460	3	420.0	34.13	27.69	77.00	2800.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCREW COMPRESSOR



CSH7553-70Y-2PU

R22, R134A, R404A, R407C, R502, R507

						Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	H	W	L	Ship Wgt (Lbs.)
CSH7553-70Y-2PU*	717000	70	208-230	3	251	23.56	22.25	52.94	1076.00
CSH7563-80Y-2PU*	814000	80	208-230	3	263.0	23.56	22.25	52.94	1085.00
CSH7573-90Y-2PU*	933000	90	208-230	3	305.0	23.56	22.25	52.94	1103.00
CSH6553-50Y-4PU*	480000	50	460	3	72.0	21.81	22.13	43.56	716.00
CSH6563-60Y-4PU*	600000	60	460	3	102.0	21.81	22.13	43.56	693.00
CSH7553-70Y-4PU*	717000	70	460	3	120.0	23.56	22.25	52.94	1058.00
CSH7563-80Y-4PU*	814000	80	460	3	126.0	23.56	22.25	52.94	1076.00
CSH7573-90Y-4PU*	933000	90	460	3	146.0	23.56	22.25	52.94	1091.00
CSH9553-180Y-4DU*	2026000	180	460	3	330.0	34.13	27.69	77.00	2734.00
CSH9563-210Y-4DU*	2299000	210	460	3	370	34.13	27.69	77.00	2778.00
CSH9573-240Y-4DU*	2637000	240	460	3	420.0	34.13	27.69	77.00	2800.00



CSH7553-50Y-2PU

R134A

						Dimensions (In.)			
Part No.	Capacity (BTUH)	HP	Voltage	Phase	RLA	H	W	L	Ship Wgt (Lbs.)
CSH7553-50Y-2PU*	490000	50	208-230	3	206.0	23.56	22.25	52.94	1043.00
CSH6553-35Y-4PU*	345000	35	460	3	56.1	21.81	22.13	43.56	671.00
CSH6563-40Y-4PU*	429000	40	460	3	75.0	21.81	22.13	43.56	693.00
CSH7553-50Y-4PU*	490000	50	460	3	103.0	23.56	22.25	52.94	1058.00
CSH7573-70Y-4PU*	664000	70	460	3	120.0	23.56	22.25	52.94	1091.00
CSH8553-80Y-4PU*	842000	80	460	3	137.0	28.56	27.75	60.63	1737.00
CSH8563-90Y-4PU*	951000	90	460	3	145.0	28.56	27.75	60.63	1762.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR


06CY016D103

06CY COMPOUND COOLING COMPRESSOR, R22 R404A R507

- Carlyle's innovative design makes it literally two compressors in one, with both high and low stages built in
- Narrow-seat valve design makes it the most efficient low-temp compressor on the market in both HCFC and HFC applications in the 6 1/2 HP to 30 HP ranges
- Optimizes System Operation
- Compatible with HFC refrigerants and POE oil in single, multiplexed and parallel system design configurations
- Utilizing liquid subcooling minimizes liquid temperature fluctuation to TXVs on systems incorporating floating condensing temperatures
- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06CY016D103*[1]	5	208-230	3	17.3	17.00	18.00	26.00	1 1/8	7/8	330.00
06CY018D103*[1]	5	208-230	3	17.3	17.00	18.00	26.00	1 3/8	7/8	325.00
06CY124D103*[1]	6 1/2	208-230	3	21.2	17.00	18.00	26.00	1 3/8	7/8	325.00
06CY125D103*[1]	6 1/2	208-230	3	21.2	17.00	18.00	26.00	1 3/8	7/8	330.00
06CY228D103*[1]	7 1/2	208-230	3	26.7	17.00	18.00	26.00	1 5/8	7/8	340.00
06CY337D103*[1]	10	208-230	3	29.8	17.00	18.00	26.00	1 5/8	1 1/8	345.00
06CY016G103*[1]	5	460	3	8.7	17.00	18.00	26.00	1 3/8	7/8	330.00
06CY018G103*[1]	5	460	3	8.7	17.00	18.00	26.00	1 3/8	7/8	330.00
06CY124G103*[1]	6 1/2	460	3	10.6	17.00	18.00	26.00	1 3/8	7/8	325.00
06CY125G103*[1]	6 1/2	460	3	10.6	17.00	18.00	26.00	1 3/8	7/8	335.00
06CY228G103*[1]	7 1/2	460	3	14.9	17.00	18.00	26.00	1 5/8	7/8	340.00
06CY675F103*	25	460	3	50.0	17.00	18.00	26.00	1 5/8	1 3/8	555.00
06CY899F103*	30	460	3	58.0	17.00	18.00	26.00	1 5/8	1 3/8	580.00
06CY228J103*	7 1/2	575	3	13.4	17.00	18.00	26.00	1 5/8	7/8	340.00
06CY337J103*	10	575	3	12.1	17.00	18.00	26.00	1 5/8	1 1/8	345.00
06CY550J103*	15	575	3	27.0	17.00	18.00	26.00	1 5/8	1 3/8	545.00
06CY675J103*	25	575	3	33.0	17.00	18.00	26.00	1 5/8	1 3/8	555.00
06CY899J103*	30	575	3	58.0	17.00	18.00	26.00	1 5/8	1 3/8	580.00

[1] XL



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



06DS3136AC325ARP

HIGH TEMPERATURE, 06DS, R22 R404A R407C R502 R507

Service compressor, replacement for new 06DF, G,H and J with suction cut-off unloading. Compressor has 1-stage suction cut-off unloading.

- All Carlyle compressors are shipped Oil-less

				Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06DS3136AC325ARP*	5	208-230	3	17.00	24.00	16.00	7/8	5/8	235.00
06DS818FAC325ARP*	6 1/2	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	320.00
06DS818FAC365ARP*	6 1/2	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	310.00
06DS824FBC325ARP*	7 1/2	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	310.00
06DS824FAC325ARP*	8	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	310.00
06DS825FBC325ARP*	8	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	310.00
06DS328FBC325ARP*	10	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	315.00
06DS537FBC325ARP*	10	208-230	3	17.00	24.00	16.00	1 3/8	1 1/8	315.00
06DS5376DC328ARP*	15	208-230	3	17.00	24.00	16.00	1 5/8	1 1/8	100.00
06DS313FAC365ARP*	5	460	3	17.00	24.00	16.00	1 3/8	1 1/8	300.00
06DS824FBC365ARP*	7 1/2	460	3	17.00	24.00	16.00	1 3/8	1 1/8	328.00
06DS825FBC365ARP*	8	460	3	17.00	24.00	16.00	1 3/8	1 1/8	320.00
06DS328FBC365ARP*	10	460	3	17.00	24.00	16.00	1 3/8	1 1/8	315.00
06DS537FBC365ARP*	15	460	3	17.00	24.00	16.00	1 5/8	1 1/8	325.00



06DM313FCC327ARP

MEDIUM TEMPERATURE, 06DM R12 R22 R134A R404A R502 R507

Service compressor, replacement for for new 06DA, DM wihtout unloading.

- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06DM313FCC327ARP*	5	208-230	3	21.5	15.00	15.00	22.00	7/8	5/8	235.00
06DM316FCC327ARP*	5	208-230	3	21.5	15.00	15.00	22.00	1 1/8	5/8	235.00
06DM313FCC367ARP*	5	460	3	10.8	15.00	15.00	22.00	7/8	5/8	235.00
06DM316FCC367ARP*	5	460	3	10.8	15.00	15.00	22.00	1 1/8	5/8	235.00
06DM8246AC0100*	7 1/2	575	3	14.2	15.00	15.00	22.00	1 3/8	1 1/8	310.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


06DR013FCC327ARP

LOW TEMPERATURE, 06DR R12 R22 R134A R404A R502 R507

- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

				Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06DR013FCC327ARP*	3	208-230	3	16.00	18.00	24.00	1 1/8	5/8	235.00
06DR316FCC327ARP*	5	208-230	3	16.00	18.00	24.00	1 1/8	5/8	235.00
06DR718FDC327ARP*	5	208-230	3	16.00	18.00	24.00	1 3/8	7/8	250.00
06DR724FDC327ARP*	6 1/2	208-230	3	16.00	18.00	24.00	1 3/8	7/8	310.00
06DR7256DC3250*	6 1/2	208-230	3	16.00	18.00	24.00	1 3/8	7/8	310.00
06DR725FDC327ARP*	6 1/2	208-230	3	16.00	18.00	24.00	1 3/8	7/8	310.00
06DR820FDC327ARP*	6 1/2	208-230	3	16.00	18.00	24.00	1 3/8	7/8	260.00
06DR337SD03250*	10	208-230	3	16.00	18.00	24.00	1 5/8	1 1/8	250.00
06DR541FDC327ARP*	15	208-230	3	16.00	18.00	24.00	1 5/8	1 1/8	265.00
06DR013FCC367ARP*	3	460	3	16.00	18.00	24.00	1 1/8	5/8	235.00
06DR316FCC367ARP*	5	460	3	16.00	18.00	24.00	1 1/8	5/8	235.00
06DR718FDC367ARP*	5	460	3	16.00	18.00	24.00	1 3/8	7/8	250.00
06DR724FDC367ARP*	6 1/2	460	3	16.00	18.00	24.00	1 3/8	7/8	310.00
06DR7256DC3650*	6 1/2	460	3	16.00	18.00	24.00	1 3/8	7/8	310.00
06DR820FDC367ARP*	6 1/2	460	3	16.00	18.00	24.00	1 3/8	7/8	260.00
06DR5416DC0650*	15	460	3	16.00	18.00	24.00	1 5/8	1 1/8	250.00
06DR541FDC367ARP*	15	460	3	16.00	18.00	24.00	1 5/8	1 1/8	325.00


06ET15036ARP

HIGH TEMPERATURE, 06ET R22 R404A R407C R502 R507

Service compressor A/C duty. Replaces 06E2, 3, 4, 5, 6, 7, 8 and 9. Compressor has 1 stage of suction cut-off unloading

- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06ET15036ARP*	20	208-230	3	87/44	26.50	26.00	34.00	2 1/8	1 1/8	430.00
06ET5503FARP*	20	208-230	3	50.0	26.50	26.00	34.00	1 5/8	1 1/8	495.00
06ET17536ARP*	30	208-230	3	135/68	26.50	26.00	34.00	2 1/8	1 5/8	490.00
06ET5753FARP*	30	208-230	3	75.0	26.50	26.00	34.00	2 1/8	1 3/8	500.00
06ET5993FARP*	40	208-230	3	99.0	26.50	26.00	34.00	2 1/8	1 5/8	520.00
06ET5506FARP*	20	460	3	50.0	26.50	26.00	34.00	1 5/8	1 1/8	495.00
06ET5656FARP*	25	460	3	65.0	26.50	26.00	34.00	1 5/8	1 3/8	500.00
06ET5756FARP*	30	460	3	75.0	26.50	26.00	34.00	2 1/8	1 3/8	500.00
06ET5996FARP*	40	460	3	99.0	26.50	26.00	34.00	2 1/8	1 5/8	520.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



06EZ7503GARP

MEDIUM TEMPERATURE, 06EZ R12 R22 R134A R404A R502 R507

Service compressor Refrigeration duty. Replaces 06EM.

- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06EZ7503GARP*	15	208-230	3	50.0	20.00	24.00	33.00	2 1/8	1 1/8	490.00
06EZ76637ARP*	25	208-230	3	112/56	20.00	24.00	33.00	2 1/8	1 3/8	480.00
06EZ7756GARP*	25	460	3	75.0	20.00	24.00	33.00	2 1/8	1 3/8	490.00



06EY7993DARP

LOW TEMPERATURE, 06EY R12 R22 R134A R404A R502 R507

Service compressor Refrigeration duty. Replaces 06ER.

- All Carlyle compressors are shipped Oil-less
- 2-Year Warranty

				Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06EY7993DARP*	30	208-230	3	26.00	25.00	33.00	2 1/8	1 3/8	520.00
06EY7656DARP*	20	460	3	26.00	25.00	33.00	2 1/8	1 3/8	480.00
06EY7996DARP*	30	460	3	26.00	25.00	33.00	2 1/8	1 3/8	500.00



06CC675E2S0

06CC - COMPOUND COOLING COMPRESSORS

- Carlyle's innovative design makes it literally two compressors in one, with both high and low stages built in.
- Narrow-seat valve design makes it the most efficient low-temp compressor on the market in both HCFC and HFC applications in the 6 1/2 HP to 30 HP ranges.
- Optimizes System Operation.
- Compatible with HFC refrigerants and POE oil in single, multiplexed and parallel system design configurations.
- Utilizing liquid subcooling minimizes liquid temperature fluctuation to TXVs on systems incorporating floating condensing temperatures.

				Dimensions (In.)			
Part No.	HP	Voltage	Phase	H	W	L	Ship Wgt (Lbs.)
06CC675E2S0*	20	208-230/460	1	20.17	16.41	28.05	555.00
06CCK37G201*	9	460	3	16.00	18.00	24.00	151.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC, TWIN SCREW COMPRESSOR

MEDIUM TEMP, 06T R22 R404A R507

- Automatic unloaded starting, expensive high-torque motors are unnecessary, reducing initial expense
- Crankcase casting, cylinder head, and valve plate designs allow for a smooth, unrestricted refrigerant flow
- Refined, two-piece shaft seal assembly virtually eliminates seal leakage for maximum reliability over a wide temperature range
- Efficient crankcase heater design prevents accumulation of liquid refrigerant in the crankcase during shutdown, dilution of the compressor oil supply
- As suction pressure changes, capacity control automatically reduces compressor capacity to as low as 35% of full-design load, reducing horsepower requirements as demand changes. Part-load operation increases energy efficiency, reducing utility bills
- Large-capacity, manually reversible oil pump, automatic pressure regulator, and oil-filtering system provide positive pressure lubrication, extending life
- Suction gases flow around cylinder sleeve to keep the cylinder cool, reducing cylinder wear
- Greater operating efficiencies by running an oversized compressor at a reduced RPM



06TAD033F2EAA00

MEDIUM TEMP, 06T R22 R404A R507

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06TAD033F2EAA00*	20	208-230	3	104.0	20.00	16.00	37.00	1 5/8	1 5/8	360.00
06TAE039F2EAA00*	30	208-230	3	128.0	20.00	16.00	37.00	1 5/8	1 5/8	370.00
06TAF044F2EAA00*	30	208-230	3	163.0	20.00	16.00	37.00	1 5/8	1 5/8	100.00
06TAF048F2EAA00*	30	208-230	3	163.0	20.00	16.00	37.00	1 5/8	1 5/8	381.00
06TAG054F2EAA00*	35	208-230	3	182.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAG065F2EAA00*	35	208-230	3	181.0	20.00	16.00	37.00	1 5/8	1 5/8	50.00
06TAH078F2EAA00*	40	208-230	3	203.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAD033B2EAA00*	20	460	3	49.0	20.00	16.00	37.00	1 5/8	1 5/8	50.00
06TAE039B2EAA00*	25	460	3	64.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAF044B2EAA00*	30	460	3	52.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAF048B2EAA00*	30	460	3	76.0	20.00	16.00	37.00	1 5/8	1 5/8	418.00
06TAG054B2EAA00*	35	460	3	88.0	20.00	16.00	37.00	1 5/8	1 5/8	400.00
06TAG065B2EAA00*	35	460	3	89.0	20.00	16.00	37.00	1 5/8	1 5/8	390.00
06TAH078B2EAA00*	40	460	3	101.0	20.00	16.00	37.00	1 5/8	1 5/8	444.00
06TAK088B2EAA00*	50	460	3	114.0	20.00	16.00	37.00	1 5/8	1 5/8	419.00
06TAG065C2EAA00*	35	575	3	72.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAH078C2EAA00*	40	575	3	81.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TAK088C2EAA00*	50	575	3	92.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GENUINE CARLYLE

SEMI-HERMETIC, TWIN SCREW COMPRESSOR

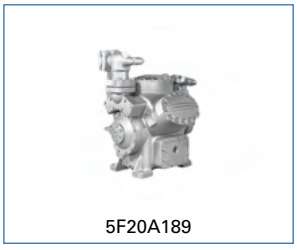


06TRD039F2EAA00

LOW TEMP, 06T R22 R404A R507

					Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
06TRD039F2EAA00*	20	208-230	3	104.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TRE048B2EAA00*	25	208-230	3	19.0	20.00	16.00	37.00	1 5/8	1 5/8	425.00
06TRE048F2EAA00*	25	208-230	3	128.0	20.00	16.00	37.00	1 5/8	1 5/8	371.00
06TRE054F2EAA00*	25	208-230	3	128.0	20.00	16.00	37.00	1 5/8	1 5/8	387.00
06TRF065F2EAA00*	30	208-230	3	154.0	20.00	16.00	37.00	1 5/8	1 5/8	380.00
06TRG078F2EAA00*	35	208-230	3	181.0	20.00	16.00	37.00	1 5/8	1 5/8	380.00
06TRH088F2EAA00*	40	208-230	3	203.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TRC033B2EAA00*	15	460	3	46.0	20.00	16.00	37.00	1 5/8	1 5/8	250.00
06TRD044B2EAA00*	20	460	3	49.0	20.00	16.00	37.00	1 5/8	1 5/8	365.00
06TRE054B2EAA00*	25	460	3	64.0	20.00	16.00	37.00	1 5/8	1 5/8	375.00
06TRF065B2EAA00*	30	460	3	76.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TRG078B2EAA00*	35	460	3	89.0	20.00	16.00	37.00	1 5/8	1 5/8	405.00
06TRH088B2EAA00*	40	460	3	101.0	20.00	16.00	37.00	1 5/8	1 5/8	403.00
06TRF065C2EAA00*	30	575	3	62.0	20.00	16.00	37.00	1 5/8	1 5/8	300.01
06TRH088C2EAA00*	40	575	3	81.0	20.00	16.00	37.00	1 5/8	1 5/8	50.00

OPEN COMPRESSOR



5F20A189

OPEN DRIVE RECIPROCATING COMPRESSOR, SMALL CHASSIS R12 R22 R502

			Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
5F20A189*	5 to 10	No Motor	19.00	19.00	16.00	1 1/8	7/8	175.00
5F30A219*	7 1/2 to 15	No Motor	18.00	21.00	18.00	1 5/8	1 3/8	215.00
5F40A219*	10 to 20	No Motor	20.00	19.00	22.00	1 5/8	1 3/8	355.00
5F60A219*	15 to 25	No Motor	25.00	21.00	24.00	2 1/8	1 5/8	400.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


5H40S219

OPEN DRIVE RECIPROCATING COMPRESSOR, LARGE CHASSIS R12 R22 R502

			Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
5H40S219*	25 to 40	No Motor	29.00	25.00	31.00	2 5/8	2 1/8	610.00
5H46A219*	40 to 60	No Motor	29.00	25.00	31.00	2 5/8	2 1/8	610.00
5H46S219*	40 to 60	No Motor	29.00	25.00	31.00	2 5/8	2 1/8	610.00
5H60A219*	40 to 60	No Motor	30.00	27.00	32.00	3 1/8	3 1/8	795.00
5H60S219*	40 to 60	No Motor	30.00	27.00	32.00	3 1/8	3 1/8	795.00
5H80A219*	50 to 75	No Motor	32.00	25.00	44.00	3 1/8	3 1/8	1115.00
5H80S219*	50 to 75	No Motor	32.00	25.00	44.00	3 1/8	3 1/8	1115.00
5H66A219*	60 to 75	No Motor	30.00	27.00	32.00	3 1/8	3 1/8	795.00
5H66S219*	60 to 75	No Motor	30.00	27.00	32.00	3 1/8	3 1/8	795.00
5H86A219*	75 to 100	No Motor	32.00	25.00	44.00	3 1/8	3 1/8	1115.00
5H86S219*	75 to 100	No Motor	32.00	25.00	44.00	3 1/8	3 1/8	1115.00
5H120A219*	75 to 125	No Motor	35.00	27.00	47.00	4 1/8	4 1/8	1580.00
5H120S219*	75 to 125	No Motor	35.00	27.00	47.00	4 1/8	4 1/8	1580.00
5H126A219*	100 to 150	No Motor	35.00	27.00	47.00	4 1/8	4 1/8	1580.00
5H126S219*	100 to 150	No Motor	35.00	27.00	47.00	4 1/8	4 1/8	1580.00


05TRQ039Z3EAA00

TWIN-SCREW OPEN DRIVE, 05T R22 R134A R404A R507

- Low-clearance screw design for lower oil-circulation rates
- No suction or discharge valves provide smooth, quiet, vibration-free operation
- Ideal for variable-speed applications
- Economizer-cooled motor provides high-efficiency operation
- Uses O-ring seals
- Compatible with many different refrigerant/oil combinations
- Internal discharge check valve
- No oil pump
- Two-step Vi for low-temperature models to maximize efficiency over a wide operating range
- Precision long-life bearings
- Capacity control

		Dimensions (In.)			Connection Size (In.)		
Part No.	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
05TRQ039Z3EAA00*	No Motor	14.15	15.13	22.00	1 5/8	1 5/8	300.01
05TRQ044Z3EAA00*	No Motor	14.15	15.13	22.00	1 5/8	1 5/8	300.01
05TRQ054Z3EAA00*	No Motor	14.15	15.13	22.00	1 5/8	1 5/8	300.01

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



6DM8186CCAC1250

AIR CONDITIONING, 6D

Carlyle Service Compressor for A/C, rebuilt by Carlyle.

- R-22, R-134A, R-513A, R-404A, R-407A/C/F, R-448A, R-449A, R-450A, R-452A and R-507

Suction temperature range: R22, 0 to 50°F

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
6DM8186CCAC1250*	6 1/2	208-230	3	31.4	8.25 x 13.88	16.00	18.00	22.00	264.00
6D8246CCBC1250P*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	24.00	16.00	18.00	310.00
6D3286CCBC1250P*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
6D5376CCBC1250P*	15	208-230	3	63.6	8.88/11.38 x 12.79	16.08	17.50	24.00	340.00
6DM8186CCAC0650*	6 1/2	460	3	15.7	8.25 x 13.88	16.00	18.00	22.00	248.00
6D8246CCBC0650P*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	16.00	18.00	24.00	308.00
6D3286CCBC0650P*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
6D5376CCBC0650P*	15	460	3	28.6	8.88/11.38 x 12.79	16.08	17.50	24.30	340.00
6D5376CCBC0150P*	15	575	3	28.6	8.88/11.38 x 12.79	16.08	17.50	24.30	340.00



6E450CC360P

6E CARLYLE SERIES

Carlyle Service Compressor for A/C, rebuilt by Carlyle.

- R-22, R-134A, R-513A, R-404A, R-407A/C/F, R-448A, R-449A, R-450A, R-452A and R-507

- Suction temperature range: R22, 0 to 50°F
- 460V is across-the-line start only in 208-230/460/3 service compressors

						Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
6E450CC360P*	20	208-230	3	87/44	8.88/11.38 x 15.31	23.00	31.00	21.00	2 1/8	1 1/8	495.00
6E550CC360P*	20	208-230	3	87.0/44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	2 1/8	1 5/8	173.00
6E565CC360P*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	223.00
6E565CC360PR*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	223.00
6E475CC360P*	30	208-230	3	135/68	8.88/11.38 x 15.31	23.00	31.00	21.00	2 1/8	1 5/8	495.00
6E575CC360P*	30	208-230	3	135.0/68.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	253.00
6E575CC360PR*	30	208-230	3	135.0/68.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	253.00
6E599CC360P*	40	208-230	3	189.0/95.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	345.00
6E550CC160P*	20	575	3	87.0/44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	2 1/8	1 5/8	173.00
6E575CC160P*	30	575	3	135.0/68.0	8.88/11.38 x 17.44	20.32	33.38	23.65	2 1/8	1 5/8	253.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR

MEDIUM TEMPERATURE, 06D SERIES



H06DM3136AC12

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06DM3136AC12*	5	208-230	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3136BC12*	5	208-230	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3166AC06*	5	208-230	3	9.6	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3166BC12*	5	208-230	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3376DC12*	10	208-230	3	44.3	8.88/11.38 x 12.78	15.80	17.50	24.30	310.00
H06DM5376BC12*	15	208-230	3	63.6	8.88/11.38 x 12.78	15.80	17.50	24.30	310.00
H06DM3136AC06*	5	460	3	9.6	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3166AC12*	5	460	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3166BC06*	5	460	3	9.6	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DM3376DC06*	10	460	3	22.1	8.88/11.38 x 12.78	15.80	17.50	24.30	310.00
H06DM5376BC06*	15	460	3	28.6	8.88/11.38 x 12.78	15.80	17.50	24.30	310.00

MEDIUM TEMPERATURE, 06E SERIES



H06EZ150360

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06EZ150360*	15	208-230	3	76.0/38.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EZ175360*	25	208-230	3	114.0/57.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ266360*	25	208-230	3	114.0/57.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ099360*	35	208-230	3	163.0/82.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ199360*	35	208-230	3	163.0/82.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ150660*	15	460	3	38.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EZ175660*	25	460	3	57.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ266660*	25	460	3	57.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EZ099660*	35	460	3	82.0	8.88/11.38 x 17.38	20.32	23.68	33.38	540.00
H06EZ199660*	35	460	3	82.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



H06DR3166CA12

LOW TEMPERATURE, 06D SERIES

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06DR3166CA12*	5	208-230	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DR3166DC12*	5	208-230	3	19.3	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DR7186AC12*	5	208-230	3	19.3	8.25 x 13.88	16.72	14.78	23.62	235.00
H06DR7186DC12*	5	208-230	3	19.3	8.25 x 13.88	16.72	14.78	23.62	235.00
H06DR2286DC12*	7 1/2	208-230	3	39.6	8.11/11.38 x 12.78	16.08	17.50	24.30	310.00
H06DR7246AC12*	7 1/2	208-230	3	31.4	8.11/11.38 x 12.78	15.49	16.46	23.60	278.00
H06DR7246DC12*	7 1/2	208-230	3	31.4	8.11/11.38 x 12.78	15.49	16.46	23.60	278.00
H06DR3376DC12*	10	208-230	3	44.3	8.11/11.38 x 12.78	16.08	17.50	24.30	310.00
H06DR3166CA06*	5	460	3	9.6	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DR3166DC06*	5	460	3	9.6	8.88 x 12.88	15.10	14.78	22.17	203.00
H06DR7186AC06*	5	460	3	9.6	8.25 x 13.88	16.72	14.78	23.62	235.00
H06DR7186DC06*	5	460	3	9.6	8.25 x 13.88	16.72	14.78	23.62	235.00
H06DR8206DC06*	6 1/2	460	3	15.7	8.25 x 13.88	16.72	14.78	23.62	278.00
H06DR2286DC06*	7 1/2	460	3	19.8	8.11/11.38 x 12.78	16.08	17.50	24.30	310.00
H06DR7246AC06*	7 1/2	460	3	15.7	8.11/11.38 x 12.78	15.49	16.46	23.60	278.00
H06DR7246DC06*	7 1/2	460	3	15.7	8.11/11.38 x 12.78	15.49	16.46	23.60	278.00
H06DR3376DC06*	10	460	3	22.1	8.11/11.38 x 12.78	16.08	17.50	24.30	310.00



H06EY150360

LOW TEMPERATURE, 06E SERIES

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06EY150360*	15	208-230	3	76.0/38.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EY165360*	20	208-230	3	90.0/45.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EY166360*	20	208-230	3	90.0/45.0	8.88/11.38 x 17.38	21.14	21.49	31.22	495.00
H06EY175360*	20	208-230	3	90.0/45.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EY099360*	30	208-230	3	130.0/65.0	8.88/11.38 x 17.38	20.32	23.68	33.38	540.00
H06EY199360*	30	208-230	3	130.0/65.0	8.88/11.38 x 17.38	20.32	23.68	33.38	540.00
H06EY150660*	15	460	3	38.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EY165660*	20	460	3	45.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EY166660*	20	460	3	45.0	8.88/11.38 x 17.38	21.14	21.49	31.22	495.00
H06EY175660*	20	460	3	45.0	8.88/11.38 x 17.38	20.32	23.68	33.38	495.00
H06EY099660*	30	460	3	65.0	8.88/11.38 x 17.38	20.32	23.68	33.38	540.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


H06DA8186AC12

AIR CONDITIONING, 06DA SERIES

Remanufactured replacements for popular Carlyle R22 air conditioning compressors. This series does not have unloading capability

- A = 2 bolt suction service valve, B = 4 bolt suction service valve (H06DS8186_C12)
- Charged with Mineral oil
- Suction temperature range: R22, 0 to 50°F

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06DA8186AC12*	6 1/2	208-230	3	31.4	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DA8186BC12*	6 1/2	208-230	3	31.4	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DA8246AC12*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DA8246BC12*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DA8256BC12*	7 1/2	208-230	3	35.6	8.88 x 12.79	16.08	17.50	24.30	278.00
H06DS8246DC3200*	7 1/2	208-230	3	N/A	8.88 x 12.79	23.00	20.50	26.20	285.00
H06DA3286BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DA3376BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DA5376BC12*	15	208-230	3	63.6	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DA8186AC06*	6 1/2	460	3	15.7	8.25 x 13.88	15.10	14.78	22.17	495.00
H06DA8186BC06*	6 1/2	460	3	15.7	8.25 x 13.88	15.10	14.78	22.17	495.00
H06DA8246AC06*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DA8246BC06*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DA8256BC06*	7 1/2	460	3	17.8	8.88 x 12.79	16.08	17.50	24.30	278.00
H06DA3286BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DA3376BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DA5376BC06*	15	460	3	28.6	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00


H06DX8186BC12

AIR CONDITIONING, 06DX SERIES

Remanufactured replacements for popular Carlyle R22 air conditioning compressors. Replaces 06DB, DC, DD, DE with 1 or 2 step old style hot gas bypass unloading

- 4 bolt suction service valve
- Charged with Mineral oil
- Suction temperature range: R22, 0 to 50°F

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06DX8186BC12*	6 1/2	208-230	3	31.4	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DX8246BC12*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DX3286BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DX3376BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DX5376BC12*	15	208-230	3	63.6	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DX8186BC06*	6 1/2	460	3	15.7	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DX8246BC06*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DX3286BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DX3376BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DX5376BC06*	15	460	3	28.6	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



H06DS3136CA12

AIR CONDITIONING, 06DS SERIES

Remanufactured replacements for popular Carlyle R22 air conditioning compressors. S variations have unloading capability and are service replacements for 06DB, 06DC, 06DD, and 06DE

- A = 2 bolt suction service valve, B = 4 bolt suction service valve (H06DS8186_C12)
- Charged with Mineral oil
- Suction temperature range: R22, 0 to 50°F

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06DS3136CA12*	5	208-230	3	19.3	8.88 x 12.79	15.10	14.78	22.17	203.00
H06DS3166CA12*	5	208-230	3	19.3	8.88 x 12.79	15.10	14.78	22.17	203.00
H06DS8186AC12*	6 1/2	208-230	3	31.4	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DS8246AC12*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DS8246BC12*	7 1/2	208-230	3	39.6	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DS8256BC12*	7 1/2	208-230	3	35.6	8.88 x 12.79	16.08	17.50	24.30	278.00
H06DS3286BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DS3376BC12*	10	208-230	3	44.3	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DS5376BC12*	15	208-230	3	63.6	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DS3136CA06*	5	460	3	9.6	8.88 x 12.79	15.10	14.78	22.17	203.00
H06DS3166CA06*	5	460	3	9.6	8.88 x 12.79	15.10	14.78	22.17	204.00
H06DS8186AC06*	6 1/2	460	3	15.7	8.25 x 13.88	15.10	14.78	22.17	235.00
H06DS8246AC06*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DS8246BC06*	7 1/2	460	3	19.8	8.88/11.38 x 12.79	15.49	16.46	23.60	278.00
H06DS8256BC06*	7 1/2	460	3	17.8	8.88 x 12.79	16.08	17.50	24.30	278.00
H06DS3286BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00
H06DS3376BC06*	10	460	3	22.1	8.88/11.38 x 12.79	16.08	17.50	24.30	310.00



H06EA250360

AIR CONDITIONING, 06EA SERIES

- No Unloading
- 460V is across-the-line start only in 208-230/460/3 service compressors

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06EA250360*	20	208-230	3	87.0/44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EA265360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA266360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA275360*	30	208-230	3	135.0/68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA299360*	40	208-230	3	189.0/95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA250660*	20	460	3	44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EA265660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA266660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA275660*	30	460	3	68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EA299660*	40	460	3	95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


H06ET250360

AIR CONDITIONING, 06ET SERIES

Remanufactured replacements for Carlyle R22 Air Conditioning Compressors. They replace 06E2, 3, 4, 5, 6, 7, 8, 9 models with one or two step new design suction cutoff unloading. Suction temperature range: R22, 0 to 50°F 460V is across-the-line start only in 208-230/460/3 service compressors

- Charged with Mineral oil

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06ET250360*	20	208-230	3	87.0/44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06ET265360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06ET266360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	478.00
H06ET275360*	30	208-230	3	135.0/68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06ET299360*	40	208-230	3	189.0/95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	590.00
H06ET250660*	20	460	3	44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06ET265660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	478.00
H06ET266660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06ET275660*	30	460	3	68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06ET299660*	40	460	3	95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	540.00


H06EX250360

AIR CONDITIONING, 06EX SERIES

Remanufactured replacements for Carlyle R22 Air Conditioning Compressors. They replace 06EA, B, C, D, E, F, J, K, L and N 1 or 2 step old design hot gas bypass unloading. Suction temperature range: R22, 0 to 50°. 460V is across-the-line start only in 208-230/460/3 service compressors

- Charged with Mineral oil

						Dimensions (In.)			
Part No.	HP	Voltage	Phase	RLA	Mount (In.)	H	W	L	Ship Wgt (Lbs.)
H06EX250360*	20	208-230	3	87.0/44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EX265360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX266360*	25	208-230	3	112.0/56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX275360*	30	208-230	3	135.0/68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX299360*	40	208-230	3	189.0/95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	540.00
H06EX250660*	20	460	3	44.0	8.88/11.38 x 15.31	21.14	21.49	31.22	495.00
H06EX265660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX266660*	25	460	3	56.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX275660*	30	460	3	68.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00
H06EX299660*	40	460	3	95.0	8.88/11.38 x 17.44	20.32	23.68	33.38	495.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEMI-HERMETIC COMPRESSOR



CRHM250A2RAS

CRH* TRANE SERIES R22

Remanufactured replacements for
Trane CRH series compressors

				Dimensions (In.)			
Part No.	HP	Voltage	Phase	H	W	L	Ship Wgt (Lbs.)
CRHM250A2RAS*[1]	25	208-230	3	22.00	24.00	26.00	535.00
CRHM250A4RAS*[1]	25	208-230	3	22.00	21.00	26.00	535.00
CRHM300A2RAS*[1]	30	208-230	3	22.00	22.00	28.00	540.00
CRHM300A4RAS*[1]	30	208-230	3	22.00	22.00	28.00	540.00
CRHR400A2RAS*[1]	40	208-230	3	26.00	24.00	32.00	815.00
CRHR500A2RAS*[1]	50	208-230	3	26.00	24.00	32.00	950.00
CRHR600A2RAS*[1]	60	208-230	3	27.00	24.00	34.00	975.00
CRHR600A4RAS*[1]	60	208-230	3	27.00	24.00	34.00	975.00
CRHM200C2RAS*[1]	20	460	3	22.00	21.00	26.00	450.00
CRHM250C2RAS*[1]	25	460	3	22.00	21.00	26.00	535.00
CRHM250C4RAS*[1]	25	460	3	22.00	21.00	26.00	535.00
CRHM300C2RAS*[1]	30	460	3	22.00	22.00	28.00	540.00
CRHM300C4RAS*[1]	30	460	3	22.00	22.00	28.00	540.00
CRHR400C2RAS*[1]	40	460	3	26.00	24.00	32.00	815.00
CRHR500C2RAS*[1]	50	460	3	26.00	24.00	32.00	950.00
CRHR600C2RAS*[1]	60	460	3	27.00	24.00	34.00	975.00
CRHR600C4RAS*[1]	60	460	3	27.00	24.00	34.00	975.00
CRHM250A2RAT*[2]	25	208-230	3	22.00	24.00	26.00	535.00
CRHM250A4RAT*[2]	25	208-230	3	22.00	22.00	26.00	535.00
CRHM300A2RAT*[2]	30	208-230	3	22.00	22.00	28.00	540.00
CRHM300A4RAT*[2]	30	208-230	3	22.00	22.00	48.00	540.00
CRHR400A2RAT*[2]	40	208-230	3	26.00	24.00	32.00	815.00
CRHR500A2RAT*[2]	50	208-230	3	26.00	24.00	32.00	950.00
CRHR600A2RAT*[2]	60	208-230	3	27.00	24.00	34.00	975.00
CRHR600A4RAT*[2]	60	208-230	3	27.00	24.00	34.00	975.00
CRHM200C2RAT*[2]	20	460	3	22.00	21.00	26.00	450.00
CRHM250C2RAT*[2]	25	460	3	22.00	21.00	26.00	535.00
CRHM250C4RAT*[2]	25	460	3	22.00	21.00	26.00	535.00
CRHM300C2RAT*[2]	30	460	3	22.00	22.00	28.00	540.00
CRHM300C4RAT*[2]	30	460	3	22.00	22.00	28.00	540.00
CRHR400C2RAT*[2]	40	460	3	26.00	24.00	32.00	815.00
CRHR500C2RAT*[2]	50	460	3	26.00	24.00	32.00	950.00
CRHR600C2RAT*[2]	60	460	3	27.00	24.00	34.00	975.00
CRHR600C4RAT*[2]	60	460	3	27.00	24.00	34.00	975.00

[1] side junction box [2] top junction box

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OPEN DRIVE COMPRESSOR

SMALL CHASSIS, R12 R22 R502

These are remanufactured replacements for Carlyle open drive compressors. For use with R134A/R12, R22, R404A/R507/R502. Can be used with water-cooled, air-cooled, or evaporative condensers. Each compressor can accommodate several motor sizes, belt or direct drive, to match refrigerant and job requirements. Increased displacement (5H*6) model compressors can not be used for belt drive applications. Valves and flywheel sold separately.



H5F30

SMALL CHASSIS, R12 R22 R502

			Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
H5F30*	7 1/2 to 15	No Motor	18.00	20.88	18.00	1 5/8	1 3/8	520.00
H5F40*	10 to 20	No Motor	20.13	19.00	21.50	1 5/8	1 3/8	450.00
H5F60*	15 to 25	No Motor	24.50	21.00	23.50	2 1/8	1 5/8	550.00



H5H40

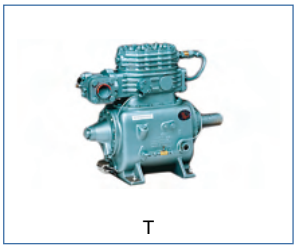
LARGE CHASSIS, R12 R22 R502

			Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
H5H40*	25 to 40	No Motor	29.00	24.50	30.50	2 5/8	2 1/8	610.00
H5H46*	40 to 60	No Motor	29.00	24.50	30.50	2 5/8	2 1/8	610.00
H5H60*	40 to 60	No Motor	29.88	27.25	31.50	3 1/8	3 1/8	795.00
H5H80*	50 to 75	No Motor	32.00	24.50	43.88	3 1/8	3 1/8	1115.00
H5H66*	60 to 75	No Motor	29.88	27.25	31.50	3 1/8	3 1/8	795.00
H5H86*	75 to 100	No Motor	32.00	24.50	43.88	3 1/8	3 1/8	1115.00
H5H120*	75 to 125	No Motor	34.88	27.38	47.00	4 1/8	4 1/8	1500.00
H5H126*	100 to 150	No Motor	34.88	27.38	47.00	4 1/8	4 1/8	1500.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GEA GRASSO

OPEN DRIVE COMPRESSOR



T

LARGE CAPACITY BELT DRIVE, R12 R22 R502

The Thermatrol range of open drive compressors is designed for refrigeration and air conditioning applications where dependability, long life and economy are of major importance. They are suitable for all temperature applications. All models are designed for use with water cooled, air cooled or evaporative condensers. Electric motors and belt drives can be supplied from a wide range and selected to match refrigerants and job load requirements. Full interchangeability of major service parts is assured, irrespective of refrigerant or application.

- Bore 3 3/32", stroke 3 3/4"
- RPM range: 450 to 1,100
- Capacity 105°F discharge, 1,100 RPM

GEA Grasso

			Dimensions (In.)			
Part No.	**HP**	**Voltage**	**H**	**W**	**L**	**Ship Wgt (Lbs.)**
T	5 to 20	No Motor	24.75	18.50	27.50	400.00
F	10 to 40	No Motor	23.38	24.50	27.00	575.00
E	20 to 75	No Motor	29.50	24.50	36.75	900.00



OPEN DRIVE COMPRESSOR



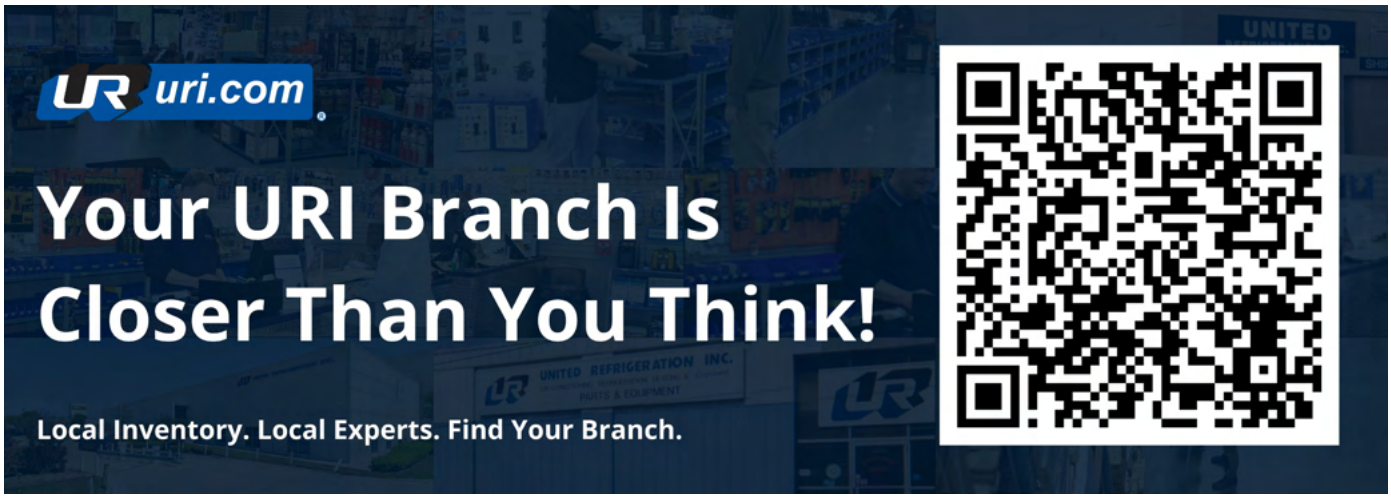
2Q2

BELT DRIVE

Blissfield/Dorin open drive compressors include valves and flywheel and are shipped with a mineral oil charge. Model 41VSM through 80VS have available crankcase heaters and direct drive couplings. Mounting kits are also available to directly replace old C series Blissfield compressors. Contact UR for other refrigerant capacities.

- Models 2Q2-41VSM—Viscosity 32CST at 104°F (CFC, HCFC mineral, HFC polyol ester)
- Models 51VS-80VS—Viscosity 46CST at 104°F (CFC, HCFC mineral, HFC polyol ester)

			Dimensions (In.)			Connection Size (In.)		
Part No.	HP	Voltage	H	W	L	Suction	Discharge	Ship Wgt (Lbs.)
2Q2	1/6	No Motor	7.50	7.00	7.75	3/8	3/8	25.00
2Q3	1/6 to 1/4	No Motor	7.50	7.00	7.75	3/8	3/8	25.00
2Q4	1/4 to 1/3	No Motor	7.50	7.00	7.75	1/2	1/2	25.00
2Q5	1/3 to 1/2	No Motor	7.50	7.00	7.75	1/2	1/2	25.00
2GVS	1 to 3	No Motor	12.98	7.88	11.43	3/4	5/8	49.00
3LVS	3 to 5	No Motor	14.56	10.63	15.36	1 1/8	3/4	84.00
41VSM	5 to 10	No Motor	15.75	14.09	17.64	1 3/8	1 1/8	181.00
51VSM	7 1/2 to 15	No Motor	17.72	16.53	20.31	1 5/8	1 3/8	260.00
67VS	15 to 40	No Motor	20.28	19.69	23.63	2 1/8	1 3/8	340.00
80VS	20 to 60	No Motor	23.23	21.84	25.60	2 1/8	1 5/8	452.00



SERVICE VALVES FOR SEMI-HERMETIC COMPRESSORS



998051004

SWEAT

- Kit includes bolts and gaskets

COPELAND

			Connection		
Part No.	Style	Number Bolts	Size (In.)	Type	Bolt Centers (In.)
998051004*	A	2 Bolt	3/8	ODS	1 5/8
998051005*	A	2 Bolt	1/2	ODS	1 5/8
998051006*	A	2 Bolt	5/8	ODS	1 5/8
998051012*	A	2 Bolt	7/8	ODS	1 5/8
998051013*	A	2 Bolt	1 1/8	ODS	1 5/8



998051026

FLARE

- Kit includes bolts and gaskets

COPELAND

			Connection		
Part No.	Style	Number Bolts	Size (In.)	Type	Bolt Centers (In.)
998051026*	A	2 Bolt	3/8	MFL	1 5/8
998051024*	A	2 Bolt	1/2	MFL	1 5/8
998051017*	B	2 Bolt, 2 Service Ports	5/8	MFL	1 5/8
998051025*	A	2 Bolt	5/8	MFL	1 5/8



998051009

SERVICE VALVE, LARGE

- Kit includes bolts and gaskets

COPELAND

			Connection		
Part No.	Style	Number Bolts	Size (In.)	Type	Bolt Centers (In.)
998051009*	C	2 Bolt	1 1/8	ODS	2 3/4
998051007*	D	4 Bolt	1 5/8	ODS	2 1/2
998051011*	C	2 Bolt	1 3/8	ODS	2 3/4
998051020*	D	4 Bolt	2 1/8	ODS	3 1/16
998051019*	D	4 Bolt	2 5/8	ODS	3 7/8
2F03FDABB*	N/A	2 Bolt	3/8	SAE	N/A
2F03FLASB*	N/A	2 Bolt	3/8	SAE	N/A
2F03FRASB*	N/A	2 Bolt	3/8	SAE	N/A
2F03SDABB*	N/A	2 Bolt	3/8	IDS	N/A
2F03SLASB*	N/A	2 Bolt	3/8	IDS	N/A
2F03SRASB*	N/A	2 Bolt	3/8	IDS	N/A
2F04FDABB*	N/A	2 Bolt	1/2	SAE	N/A
2F04FLASB*	N/A	2 Bolt	1/2	SAE	N/A
2F04FRASB*	N/A	2 Bolt	1/2	SAE	N/A
2F04SDABB*	N/A	2 Bolt	1/2	IDS	N/A
2F04SLASB*	N/A	2 Bolt	1/2	IDS	N/A
2F04SRASB*	N/A	2 Bolt	1/2	IDS	N/A
2F05FDABB*	N/A	2 Bolt	5/8	SAE	N/A
2F05FLASB*	N/A	2 Bolt	5/8	SAE	N/A
2F05FRASB*	N/A	2 Bolt	5/8	SAE	N/A
2F05SDABB*	N/A	2 Bolt	5/8	IDS	N/A
2F05SLASB*	N/A	2 Bolt	5/8	IDS	N/A
2F05SRASB*	N/A	2 Bolt	5/8	IDS	N/A
2F06STABB*	N/A	2 Bolt	3/4	IDS	N/A
2F07STABB*	N/A	2 Bolt	7/8	IDS	N/A
2F07STAFU*	N/A	2 Bolt	7/8	FLNG UNION	N/A
2F09STABB*	N/A	2 Bolt	1-1/8	IDS	N/A
2F09STAFU*	N/A	2 Bolt	1-1/8	FLNG UNION	N/A
2F11STAFU*	N/A	2 Bolt	1-3/8	FLNG UNION	N/A
4F09STABB*	N/A	4 Bolt	1-1/8	IDS	N/A
4F11STABB*	N/A	4 Bolt	1-3/8	IDS	N/A
4F13STABB*	N/A	4 Bolt	1-5/8	IDS	N/A
4F13STACIA*	N/A	4 Bolt	1-5/8	IDS	N/A
4F17SDABB*	N/A	4 Bolt	2-1/8	IDS	N/A

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


06DA660060

SERVICE VALVE, LARGE

- Kit includes bolts and gaskets

			Connection		
Part No.	Style	Number Bolts	Size (In.)	Type	Bolt Centers (In.)
06DA660060*	F	2 Bolt	5/8	ODS	1 5/8
06DA660062*	E	2 Bolt	7/8	ODS	1 3/4
06DA660061*	E	2 Bolt	7/8	ODS	1 5/8
06DA660064*	E	2 Bolt	1 1/8	ODS	1 3/4
06EA660090*	G	4 Bolt	1 5/8	ODS	2 1/2
06DA660063*	G	4 Bolt	1 1/8	ODS	2 1/2
06DA660065*	G	4 Bolt	1 3/8	ODS	2 1/2
06EA660091*	D	4 Bolt	2 1/8	ODS	3 1/16

ROTOLOCK VALVE


1RX12FL

ROTOLOCK X MFL, 90°

- Female rotolock thread

		Connection	
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type
1RX12FL	1 - 14	1/2	MFL
1RX58FL	1 - 14	5/8	MFL


1RX12S

ROTOLOCK X IDS, 90°

- Female rotolock thread

		Connection	
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type
1RX12S	1 - 14	1/2	ODS
1RX58S	1 - 14	5/8	ODS
114RX58S	1 1/4 - 12	5/8	ODS
114RX34S	1 1/4 - 12	3/4	ODS
114RX78S	1 1/4 - 12	7/8	ODS
114RX118S	1 1/4 - 12	1 1/8	ODS
134RX118S	1 3/4 - 12	1 1/8	ODS
134RX138S	1 3/4 - 12	1 3/8	ODS
134RX158S	1 3/4 - 12	1 5/8	ODS


ROTOLOCK

ASSORTMENT

- Assortment includes 3—3/4", 4—1", 4—1 1/4" and 2—1 3/4" gaskets

Part No.	Description
ROTOLOCK	Assortment Rotolock Gaskets


114RX78SA

ROTOLOCK X ODS

- Female rotolock thread

		Connection	
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type
114RX78SA	1 1/4 - 12	7/8	Sweat
114RX118SA	1 1/4 - 12	1 1/8	Sweat
134RX118SA	1 3/4 - 12	1 1/8	Sweat
134RX138SA	1 3/4 - 12	1 3/8	Sweat

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ROTOLOCK VALVE



50002K

ROTOLOCK VALVE KIT

Compatible HCFC and HFC refrigerants and their associated oils.

Westermeyer Industries Inc.

		Connection		
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type	Body Size (In.)
50002K[1]	3/4 - 16	3/8	FL	3/4 Hex
50003K[1]	1 - 14	1/2	FL	7/8 sq
50037K[1]	1 - 14	5/8	FL	7/8 sq
50018K[2]	1 - 14	1/2	ODS	7/8 sq
50019K[2]	1 - 14	5/8	ODS	7/8 sq
50034K[3]	1-1/4 - 12	7/8	ODS	1-1/8 sq
50042K[1]	1-3/4 - 12	1 1/8	ODS	1-1/8 sq
50043K[1]	1-3/4 - 12	1 3/8	ODS	1-1/8 sq

[1] Top Gauge Location [2] Right Gauge Location [3] Left Gauge Location



998003600

ROTOLOCK VALVE ADAPTER

Adapts compressor with 2 3/4" bolt centers, discus head mounted valve locations for use with 1 3/4" rotolock valves or adapters.

- Includes gasket

COPELAND

Part No.	Bolt Centers (In.)
998003600*	2 3/4

SIGHT GLASS REMOVAL TOOL



SGRT

SIGHT GLASS REMOVAL TOOL

- Slides into the notches of a compressor sight glass
- Helps extract the sight glass with a crescent or socket wrench
- 1" diameter

Part No.	Description
SGRT	Sight Glass Removal Tool

GASKET BOOK



GB10

GASKET BOOK

Array of 36 different gaskets replaces most common gaskets used today in expansion and solenoid valves and pumps. This fine gasket material Garlock replaces old gaskets on Sporlan, Penn, Alco, Jackes/Evans, Parker, Mueller, Hamilton Pax, Henry and Primore.

ESP ENERGY SAVING PRODUCTS

Part No.	Description
GB10	Finny's Gasket Book - Contains 36 of the most commonly used gaskets in the HVAC/R industry and one blank for field fabrication

DEMAND COOLING KIT



971009004

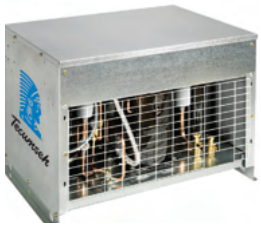
DEMAND COOLING KIT

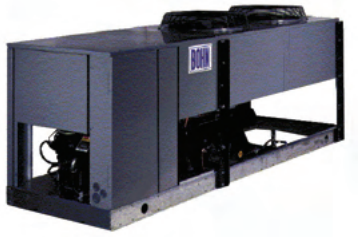
COPELAND

Part No.	Description
971009004	Copeland Protector Kit
998100014	Copeland 4D 115V Demand Cooling Kit
998100022	Copeland 2D 240V Demand Cooling Kit
998100024	Copeland 4D 240V Demand Cooling Kit
998100016	Copeland 6D 115V Demand Cooling Kit
998100026	Copeland 6D 240V Demand Cooling Kit

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov









Trenton Refrigeration **Page**
- Walk-In Evaporator, Low Profile 136-143
- Walk-In Evaporator, Medium Profile 143
- Walk-In Evaporator, High Profile 144
- Walk-In Evaporator, Two Way Medium Profile 145
- Walk-In Evaporator, Low Velocity 146
- Air Cooled Condensing Unit, Outdoor, Scroll 147-153
- Air Cooled Condensing Unit, Semi-Hermetic 153-155
- Water Cooled Condensing Unit, Indoor, Semi-Hermetic 155
- Air Cooled Condenser 156

Bohn
- Walk-In Evaporator, Low Profile 157-159
- Walk-In Evaporator, Low Velocity 159
- Air Cooled Condensing Unit, Outdoor, Scroll 160
- Air Cooled Condenser 161

Larkin
- Walk-In Evaporator, Low Profile 162

Heatcraft Refrigeration
- Reach-in Evaporator 163-167

Copeland
- Air Cooled Condensing Unit, Indoor, Hermetic 168-169
- Air Cooled Condensing Unit, Indoor, Scroll 170-172
- Air Cooled Condensing Unit, Outdoor, Scroll 173-174
- Water Cooled Condensing Unit, Hermetic, Indoor 174-175

Tecumseh **Page**
- Air Cooled Condensing Unit, Indoor, Hermetic 176-178
- Water Cooled Condensing Unit, Indoor, Hermetic 178

Peerless of America
- Reach-in Evaporator, Air Defrost 179

LRC Coil Company
- Walk-In Evaporator, Special Application 180-181

Air Cooled, Condensing Unit, Indoor, Unit Enclosure
- 182

Packless Industries
- Water Cooled Condenser 183-184
- Air Cooled Condenser, Heat Exchanger 184

Standard Refrigeration
- Water Cooled Condenser 185
- Liquid Receiver 185-186

Westermeyer
- Water Cooled Condenser 187-191
- Liquid Receiver 191-193

Accessories
- Barrel Bracket 194
- Rotalock® Adapter 194-195
- Rotalock® Valve 195
- Rotalock® 195
- Shut Off Valve 195

WALK-IN EVAPORATOR, LOW PROFILE



TPLP104LES2ER9ESP

A2L - TPLP LINE, ESP+, LOW TEMP, ELECTRIC DEFROST, 6 FPI, LOW PROFILE PRE-ASSEMBLED, GENERATION E

- Dual Rated A1 & A2L
- A2L: R454A, R454C, R455A
- A1: R407A, R407C, R448A, R449A, R404A
- -K: Dual rated A1 & A2L, A2L Mitigation Kit Sold Separately
- -M: Dual rated A1 & A2L, A2L Mitigation included
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- Front access
- Internally enhanced tubing
- Convenient mounting brackets
- Ample electrical and header compartments
- Positive slope, hinged drain pan
- Centrally located, universal drain connection
- Large 3/4" ID (3/4" MPT) drain hole
- Schrader valve on suction header, located outside of cabinet
- All A2L units will include a Leak detection system with shipped loose SSOV (Safety Shut Off Valve) and CSOV (Check Shut Off Valve)

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP104LES2ER9ESP*[1]	4070	208-230	1	60	750	1	1	0.6	0.8	5/8	3/8	15.88
TPLP105LES2ER9ESP*[1]	4900	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP106LES2ER9ESP*[1]	6330	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP207LES2ER9ESP*[1]	7160	208-230	1	60	1500	2	2	1.2	1.4	5/8	3/8	15.88
TPLP209LES2ER9ESP*[1]	9390	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211LES2ER9ESP*[1]	11300	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP314LES2ER9ESP*[1]	13900	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP526LES2ER9ESP*[1]	16100	208-230	1	60	4080	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP316LES2ER9ESP*[1]	16200	208-230	1	60	2040	3	3	1.8	2.0	1 1/8	3/8	15.88
TPLP418LES2ER9ESP*[1]	18400	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP421LES2ER9ESP*[1]	21200	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP631LES2ER9ESP*[1]	31100	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88

[1] Models will have either K or M at the end of the part number



TPLP105MAS1ER9ESP

A2L - TPLP LINE, ESP+, MEDIUM TEMP, AIR DEFROST, 6 FPI LOW PROFILE PRE-ASSEMBLED, GENERATION E

- Dual Rated A1 & A2L
- A2L: R454A, R454C, R455A
- A1: R407A, R407C, R448A, R449A, R404A
- -K: Dual rated A1 & A2L, A2L Mitigation Kit Sold Separately
- -M: Dual rated A1 & A2L, A2L Mitigation included
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- Front access
- Internally enhanced tubing
- Convenient mounting brackets
- Ample electrical and header compartments
- Positive slope, hinged drain pan
- Centrally located, universal drain connection
- Large 3/4" ID (3/4" MPT) drain hole
- Schrader valve on suction header, located outside of cabinet
- All A2L units will include a Leak detection system with shipped loose SSOV (Safety Shut Off Valve) and CSOV (Check Shut Off Valve)
- Capacities rated at R454a +20/25 degF SST

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP105MAS1ER9ESP*[1]	4700	115	1	60	750	1	1	1.0	1.3	5/8	3/8	15.88
TPLP107MAS1ER9ESP*[1]	6400	115	1	60	705	1	1	1.0	1.3	5/8	3/8	15.88
TPLP108MAS1ER9ESP*[1]	7600	115	1	60	680	1	1	1.0	1.3	5/8	3/8	15.88
TPLP210MAS1ER9ESP*[1]	9500	115	1	60	1500	2	2	2.0	2.3	7/8	3/8	15.88
TPLP212MAS1ER9ESP*[1]	12400	115	1	60	1410	2	2	2.0	2.3	7/8	3/8	15.88
TPLP215MAS1ER9ESP*[1]	14900	115	1	60	1360	2	2	2.0	2.3	7/8	3/8	15.88

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP318MAS1ER9ESP*[1]	18400	115	1	60	2115	3	3	3.0	3.3	7/8	3/8	15.88
TPLP322MAS1ER9ESP*[1]	22100	115	1	60	2040	3	3	3.0	3.3	7/8	3/8	15.88
TPLP424MAS1ER9ESP*[1]	24400	115	1	60	2820	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP429MAS1ER9ESP*[1]	29400	115	1	60	2720	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP537MAS1ER9ESP*[1]	36700	115	1	60	3400	5	5	5.0	5.3	1 3/8	1/2	15.88
TPLP644MAS1ER9ESP*[1]	44000	115	1	60	4080	6	6	6.0	6.3	1 3/8	1/2	15.88

[1] Models will have either K or M at the end of the part number



TPLP105MES2ER9ESP

A2L - TPLP LINE, ESP+, MEDIUM TEMP, ELECTRIC DEFROST, 6 FPI LOW PROFILE PRE-ASSEMBLED, GENERATION E

- Dual Rated A1 & A2L
- A2L: R454A, R454C, R455A
- A1: R407A, R407C, R448A, R449A, R404A
- -K: Dual rated A1 & A2L, A2L Mitigation Kit Sold Separately
- -M: Dual rated A1 & A2L, A2L Mitigation included
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- Front access
- Internally enhanced tubing
- Convenient mounting brackets
- Ample electrical and header compartments
- Positive slope, hinged drain pan
- Centrally located, universal drain connection
- Large 3/4" ID (3/4" MPT) drain hole
- Schrader valve on suction header, located outside of cabinet
- All A2L units will include a Leak detection system with shipped loose SSOV (Safety Shut Off Valve) and CSOV (Check Shut Off Valve)
- Capacities rated at R454a +20/25 degF SST

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP105MES2ER9ESP*[1]	4700	208-230	1	60	750	1	1	0.6	0.8	5/8	3/8	15.88
TPLP107MES2ER9ESP*[1]	6400	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP108MES2ER9ESP*[1]	7600	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP210MES2ER9ESP*[1]	9500	208-230	1	60	1500	2	2	1.2	1.4	7/8	3/8	15.88
TPLP212MES2ER9ESP*[1]	12400	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP215MES2ER9ESP*[1]	14900	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP318MES2ER9ESP*[1]	18400	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP322MES2ER9ESP*[1]	22100	208-230	1	60	2040	3	3	1.8	2.0	7/8	3/8	15.88
TPLP424MES2ER9ESP*[1]	24400	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP429MES2ER9ESP*[1]	29400	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP537MES2ER9ESP*[1]	36700	208-230	1	60	3400	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP644MES2ER9ESP*[1]	44000	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88

[1] Models will have either K or M at the end of the part number

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE



TPLP105LES2DR8ESP

TPLP LINE ESP+, LOW TEMP, ELECTRIC DEFROST, 6 FPI, PRE-ASSEMBLED

- Low temperature: -20°F Evap Temp
- R8: R407A, R407C, R448A, R449A, R404A
- Capacities rated at R404a -20°F SST
- ESP+ models that include: ESP+ Adaptive Defrost Control, ESP+ remote display, EEV electronic expansion valve, solenoid valve
- Nominal capacity rated at 10°F TD
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

							Motor Data			Connection Size (In.)		
Part No.	BTUH -20 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP105LES2DR8ESP*	4780	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP106LES2DR8ESP*	6170	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP207LES2DR8ESP*	6980	208-230	1	60	1500	2	2	1.2	1.4	5/8	3/8	15.88
TPLP209LES2DR8ESP*	9160	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211LES2DR8ESP*	11000	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP314LES2DR8ESP*	13600	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP316LES2DR8ESP*	15800	208-230	1	60	2040	3	3	1.8	2.0	1 1/8	3/8	15.88
TPLP418LES2DR8ESP*	17900	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP421LES2DR8ESP*	20600	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP526LES2DR8ESP*	25600	208-230	1	60	4080	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP631LES2DR8ESP*	30400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88



For **80 years**, Trenton Refrigeration has been a leader in the commercial refrigeration industry. Utilizing the experience and expertise of our team, Trenton Refrigeration consistently pioneers new and improved innovative solutions that best suit your needs

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



TPLP106MAS1DR8ESP

TPLP LINE ESP+, MEDIUM TEMP, AIR DEFROST, 6 FPI, PRE-ASSEMBLED

- Medium temperature: 25°F Evap Temp
- R8: R407A, R407C, R448A, R449A, R404A
- ESP+ models that include: ESP+ Adaptive Defrost Control, ESP+ remote display, EEV electronic expansion valve, solenoid valve
- Capacity rated at R404a +25°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP106MAS1DR8ESP*	5770	115	1	60	705	1	1	1.0	1.3	5/8	3/8	15.88
TPLP107MAS1DR8ESP*	6830	115	1	60	680	1	1	1.0	1.3	5/8	3/8	15.88
TPLP209MAS1DR8ESP*	8500	115	1	60	1500	2	2	2.0	2.3	7/8	3/8	15.88
TPLP211MAS1DR8ESP*	11100	115	1	60	1410	2	2	2.0	2.3	7/8	3/8	15.88
TPLP214MAS1DR8ESP*	13300	115	1	60	1360	2	2	2.0	2.3	7/8	3/8	15.88
TPLP317MAS1DR8ESP*	16600	115	1	60	2115	3	3	3.0	3.3	7/8	3/8	15.88
TPLP320MAS1DR8ESP*	19800	115	1	60	2040	3	3	3.0	3.3	7/8	3/8	15.88
TPLP422MAS1DR8ESP*	21800	115	1	60	2820	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP427MAS1DR8ESP*	26400	115	1	60	2720	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP534MAS1DR8ESP*	32900	115	1	60	3400	5	5	5.0	4.3	1 3/8	1/2	15.88
TPLP640MAS1DR8ESP*	39400	115	1	60	4080	6	6	6.0	6.3	1 3/8	1/2	15.88
TPLP107MAS2DR8ESP*	6830	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP209MAS2DR8ESP*	8500	208-230	1	60	1500	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211MAS2DR8ESP*	11100	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP214MAS2DR8ESP*	13300	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP320MAS2DR8ESP*	19800	208-230	1	60	2040	3	3	1.8	2.0	7/8	3/8	15.88


TPLP104MES2DR8ESP

TPLP LINE ESP+, MEDIUM TEMP, ELECTRIC DEFROST, 6 FPI, PRE-ASSEMBLED

- Medium temperature: 25°F Evap Temp
- R8: R407A, R407C, R448A, R449A, R404A
- Capacities rated at R404a +25°F SST
- ESP+ models that include: ESP+ Adaptive Defrost Control, ESP+ remote display, EEV electronic expansion valve, solenoid valve
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP104MES2DR8ESP*	4200	208-230	1	60	750	1	1	0.6	0.8	5/8	3/8	15.88
TPLP107MES2DR8ESP*	6830	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP209MES2DR8ESP*	8500	208-230	1	60	1500	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211MES2DR8ESP*	11100	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP214MES2DR8ESP*	13300	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP317MES2DR8ESP*	16600	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP320MES2DR8ESP*	19800	208-230	1	60	2040	3	3	1.8	2.0	7/8	3/8	15.88
TPLP422MES2DR8ESP*	21800	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP427MES2DR8ESP*	26400	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP534MES2DR8ESP*	32900	208-230	1	60	3400	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP640MES2DR8ESP*	39400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE



TPLP104LES2DR2

TPLP LINE, LOW TEMP, ELECTRIC DEFROST, 6 FPI, PRE-ASSEMBLED

- Low temperature: -20°F Evap Temp
- R2: R407A, R407C, R448A, R449A
- R6: R404A
- Capacities rated at: R2: R448a -20°F SST and R6: R404a -20°F SST
- Electro-mechanical models that include: TX valve, solenoid valve and thermostat
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

							Motor Data			Connection Size (In.)		
Part No.	BTUH -20 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP104LES2DR2*	4070	208-230	1	60	750	1	1	0.6	0.8	5/8	3/8	15.88
TPLP105LES2DR2*	4900	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP106LES2DR2*	6330	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP207LES2DR2*	7160	208-230	1	60	1500	2	2	1.2	1.4	5/8	3/8	15.88
TPLP209LES2DR2*	9390	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211LES2DR2*	11300	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP314LES2DR2*	13900	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP316LES2DR2*	16200	208-230	1	60	2040	3	3	1.8	2.0	1 1/8	3/8	15.88
TPLP418LES2DR2*	18400	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP421LES2DR2*	21200	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP526LES2DR2*	26100	208-230	1	60	4080	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP104LES2DR6*	3970	208-230	1	60	750	1	1	0.6	0.8	5/8	3/8	15.88
TPLP105LES2DR6*	4780	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP106LES2DR6*	6170	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP207LES2DR6*	6980	208-230	1	60	1500	2	2	1.2	1.4	5/8	3/8	15.88
TPLP209LES2DR6*	9160	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211LES2DR6*	11000	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP314LES2DR6*	13600	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP316LES2DR6*	15800	208-230	1	60	2040	3	3	1.8	2.0	1 1/8	3/8	15.88
TPLP418LES2DR6*	17900	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP421LES2DR6*	20600	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP526LES2DR6*	25600	208-230	1	60	4080	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP631LES2DR6*	30400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



TPLP104MAS1DR2

TPLP LINE, MEDIUM TEMP, AIR DEFROST, 6 FPI, PRE-ASSEMBLED

- Medium temperature: 25°F Evap Temp
- R2: R407A, R407C, R448A, R449A
- R6: R404A
- Electro-mechanical models that include: TX valve, solenoid valve and thermostat
- Capacity rated at: R2: R448a +25°F SST and R6: R404a +25°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

							Motor Data			Connection Size (In.)		
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TPLP104MAS1DR2*	4310	115	1	60	750	1	1	1.0	1.3	5/8	3/8	15.88
TPLP106MAS1DR2*	5910	115	1	60	705	1	1	1.0	1.3	5/8	3/8	15.88
TPLP107MAS1DR2*	7000	115	1	60	680	1	1	1.0	1.3	5/8	3/8	15.88
TPLP209MAS1DR2*	8700	115	1	60	1500	2	2	2.0	2.3	7/8	3/8	15.88
TPLP211MAS1DR2*	11400	115	1	60	1410	2	2	2.0	2.3	7/8	3/8	15.88
TPLP214MAS1DR2*	13700	115	1	60	1360	2	2	2.0	2.3	7/8	3/8	15.88
TPLP317MAS1DR2*	16900	115	1	60	2115	3	3	3.0	3.3	7/8	3/8	15.88
TPLP320MAS1DR2*	20300	115	1	60	2040	3	3	3.0	3.3	7/8	3/8	15.88
TPLP422MAS1DR2*	22400	115	1	60	2820	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP427MAS1DR2*	27000	115	1	60	2720	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP534MAS1DR2*	33700	115	1	60	3400	5	5	5.0	5.3	1 3/8	1/2	15.88
TPLP640MAS1DR2*	40400	115	1	60	4080	6	6	6.0	6.3	1 3/8	1/2	15.88
TPLP209MAS2DR2*	8700	208-230	1	60	1500	2	2	1.2	1.4	7/8	3/8	15.88
TPLP214MAS2DR2*	13700	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP317MAS2DR2*	16900	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP534MAS2DR2*	33700	208-230	1	60	3400	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP104MAS1DR6*	4200	115	1	60	750	1	1	1.0	1.3	5/8	3/8	15.88
TPLP640MAS2DR2*	40400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88
TPLP106MAS1DR6*	5770	115	1	60	705	1	1	1.0	1.3	5/8	3/8	15.88
TPLP107MAS1DR6*	6830	115	1	60	680	1	1	1.0	1.3	5/8	3/8	15.88
TPLP209MAS1DR6*	8500	115	1	60	1500	2	2	2.0	2.3	7/8	3/8	15.88
TPLP211MAS1DR6*	11100	115	1	60	1410	2	2	2.0	2.3	7/8	3/8	15.88
TPLP214MAS1DR6*	13300	115	1	60	1360	2	2	2.0	2.3	7/8	3/8	15.88
TPLP317MAS1DR6*	16600	115	1	60	2115	3	3	3.0	3.3	7/8	3/8	15.88
TPLP320MAS1DR6*	19800	115	1	60	2040	3	3	3.0	3.3	7/8	3/8	15.88
TPLP422MAS1DR6*	21800	115	1	60	2820	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP427MAS1DR6*	26400	115	1	60	2720	4	4	4.0	4.3	1 1/8	3/8	15.88
TPLP534MAS1DR6*	32900	115	1	60	3400	5	5	5.0	4.3	1 3/8	1/2	15.88
TPLP640MAS1DR6*	39400	115	1	60	4080	6	6	6.0	6.3	1 3/8	1/2	15.88
TPLP106MAS2DR6*	5770	208-230	1	60	705	1	1	0.6	0.8	5/8	3/8	15.88
TPLP107MAS2DR6*	6830	208-230	1	60	680	1	1	0.6	0.8	5/8	3/8	15.88
TPLP209MAS2DR6*	8500	208-230	1	60	1500	2	2	1.2	1.4	7/8	3/8	15.88
TPLP211MAS2DR6*	11100	208-230	1	60	1410	2	2	1.2	1.4	7/8	3/8	15.88
TPLP214MAS2DR6*	13300	208-230	1	60	1360	2	2	1.2	1.4	7/8	3/8	15.88
TPLP317MAS2DR6*	16600	208-230	1	60	2115	3	3	1.8	2.0	7/8	3/8	15.88
TPLP320MAS2DR6*	19800	208-230	1	60	2040	3	3	1.8	2.0	7/8	3/8	15.88
TPLP422MAS2DR6*	21800	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP427MAS2DR6*	26400	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	3/8	15.88
TPLP534MAS2DR6*	32900	208-230	1	60	3400	5	5	3.0	3.2	1 3/8	1/2	15.88
TPLP640MAS2DR6*	39400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	1/2	15.88

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE



TLP104LES2D

TLP LINE, LOW TEMP, ELECTRIC DEFROST, 6 FPI

- Low temperature: -40°F to 0°F Evap Temp
- R407A, R448A, R449A, R404A, R507
- Capacities rated at R404a -20°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard

A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TLP104LES2D*[1]	3970	208-230	1	60	750	1	1	0.6	0.8	5/8	1/2	15.88
TLP105LES2D*[1]	4780	208-230	1	60	705	1	1	0.6	0.8	5/8	1/2	15.88
TLP207LES2D*[1]	6980	208-230	1	60	1500	2	2	1.2	1.4	7/8	1/2	15.88
TLP209LES2D*[1]	9160	208-230	1	60	1410	2	2	1.2	1.4	7/8	1/2	15.88
TLP211LES2D*[1]	11000	208-230	1	60	1360	2	2	1.2	1.4	7/8	1/2	15.88
TLP314LES2D*[1]	13600	208-230	1	60	2115	3	3	1.8	2.0	7/8	1/2	15.88
TLP316LES2D*[1]	15800	208-230	1	60	2040	3	3	1.8	2.0	1 1/8	1/2	15.88
TLP418LES2D*[1]	17900	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	1/2	15.88
TLP421LES2D*[1]	20600	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	7/8	15.88
TLP631LES2D*[1]	30400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	7/8	15.88
TLP631LET3D*[1]	30400	208-230	3	60	4080	6	6	3.6	3.8	1 3/8	7/8	15.88

[1] A2L models will have E at the end of the part number



TLP104MAS1D

TLP LINE, MEDIUM TEMP, AIR DEFROST, 6 FPI

- Medium temperature: 10°F to 45°F Evap Temp
- R407A, R407C, R448A, R449A, R404A, R507
- Capacities rated at R404a +25°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TLP104MAS1D*[1]	4200	115	1	60	750	1	1	1.0	1.3	5/8	1/2	15.88
TLP106MAS1D*[1]	5770	115	1	60	705	1	1	1.0	1.3	5/8	1/2	15.88
TLP107MAS1D*[1]	6830	115	1	60	680	1	1	1.0	1.3	5/8	1/2	15.88
TLP209MAS1D*[1]	8500	115	1	60	1500	2	2	2.0	2.3	7/8	1/2	15.88
TLP211MAS1D*[1]	11100	115	1	60	1410	2	2	2.0	2.3	7/8	1/2	15.88
TLP214MAS1D*[1]	13300	115	1	60	1360	2	2	2.0	2.3	7/8	1/2	15.88
TLP317MAS1D*[1]	16600	115	1	60	2115	3	3	3.0	3.3	7/8	1/2	15.88
TLP320MAS1D*[1]	19800	115	1	60	2040	3	3	3.0	3.3	7/8	1/2	15.88
TLP422MAS1D*[1]	21800	115	1	60	2820	4	4	4.0	4.3	1 1/8	1/2	15.88
TLP427MAS1D*[1]	26400	115	1	60	2720	4	4	4.0	4.3	1 1/8	1/2	15.88
TLP534MAS1D*[1]	32900	115	1	60	3400	5	5	5.0	5.3	1 3/8	1/2	15.88
TLP640MAS1D*[1]	39400	115	1	60	4080	6	6	6.0	6.3	1 3/8	7/8	15.88
TLP104MAS2D*[1]	4200	208-230	1	60	750	1	1	0.6	0.8	5/8	1/2	15.88
TLP106MAS2D*[1]	5770	208-230	1	60	705	1	1	0.6	0.8	5/8	1/2	15.88
TLP107MAS2D*[1]	6830	208-230	1	60	680	1	1	0.6	0.8	5/8	1/2	15.88
TLP209MAS2D*[1]	8500	208-230	1	60	1500	2	2	1.2	1.4	7/8	1/2	15.88
TLP214MAS2D*[1]	13300	208-230	1	60	1360	2	2	1.2	1.4	7/8	1/2	15.88
TLP317MAS2D*[1]	16600	208-230	1	60	2115	3	3	1.8	2.0	7/8	1/2	15.88

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TLP320MAS2D*[1]	19800	208-230	1	60	2040	3	3	1.8	2.0	7/8	1/2	15.88
TLP422MAS2D*[1]	21800	208-230	1	60	2820	4	4	2.4	2.6	1 1/8	1/2	15.88
TLP427MAS2D*[1]	26400	208-230	1	60	2720	4	4	2.4	2.6	1 1/8	1/2	15.88
TLP534MAS2D*[1]	32900	208-230	1	60	3400	5	5	3.0	3.2	1 3/8	1/2	15.88
TLP640MAS2D*[1]	39400	208-230	1	60	4080	6	6	3.6	3.8	1 3/8	7/8	15.88

[1] A2L models will have E at the end of the part number

WALK-IN EVAPORATOR, MEDIUM PROFILE



TMP224LES2D

TMP LINE, ELECTRIC DEFROST, LOW TEMP, 6 FPI

- Low temperature: -40°F to 0°F Evap Temp
- R407A, R448A, R449A, R404A, R507
- Capacities rated at R404a -20°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TMP224LES2D*[1]	19100	208-230	1	60	6420	2	2	4.4	15.0	1 3/8	5/8	27.75
TMP233LES2D*[1]	26400	208-230	1	60	6070	2	2	4.4	15.0	1 3/8	7/8	27.75
TMP224LET3D*[1]	19100	208-230	3	60	6420	2	2	4.4	15.0	1 3/8	5/8	27.75
TMP233LET3D*[1]	26400	208-230	3	60	6070	2	2	4.4	15.0	1 3/8	7/8	27.75
TMP239LET3D*[1]	31900	208-230	3	60	5730	2	2	4.4	15.0	1 5/8	7/8	27.75
TMP347LET3D*[1]	37900	208-230	3	60	9100	3	3	6.6	15.0	1 5/8	7/8	27.75
TMP355LET3D*[1]	44500	208-230	3	60	8590	3	3	6.6	15.0	1 5/8	1 1/8	27.75
TMP470LET3D*[1]	57200	208-230	3	60	11490	4	4	8.8	15.0	2 1/8	1 1/8	27.75

[1] A2L models will have E at the end of the part number



TMP120MAS2D

TMP LINE, AIR DEFROST, MEDIUM TEMP, 6 FPI

- Medium temperature: 10°F to 35°F Evap Temp
- R407A, R407C, R448A, R449A, R404A, R507
- Capacities rated at R404a +25°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TMP120MAS2D*[1]	16200	208-230	1	60	3030	1	1	2.2	15.0	7/8	5/8	27.75
TMP232MAS2D*[1]	26000	208-230	1	60	6420	2	2	4.4	15.0	1 1/8	5/8	27.75
TMP240MAS2D*[1]	32500	208-230	1	60	6070	2	2	4.4	15.0	1 3/8	5/8	27.75
TMP248MAS2D*[1]	38600	208-230	1	60	5730	2	2	4.4	15.0	1 3/8	7/8	27.75
TMP360MAS2D*[1]	48900	208-230	1	60	9100	3	3	6.6	15.0	1 5/8	7/8	27.75
TMP372MAS2D*[1]	58900	208-230	1	60	8590	3	3	6.6	15.0	1 5/8	7/8	27.75
TMP486MAS2D*[1]	70100	208-230	1	60	11490	4	4	8.8	15.0	1 5/8	7/8	27.75

[1] A2L models will have E at the end of the part number

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, HIGH PROFILE



THP073HAT3A

THP LINE, HIGH/MEDIUM TEMP, AIR DEFROST, 7 FPI

- Compatible with Low GWP Refrigerants
- Heavy gauge textured aluminum cabinet with galvanized steel hangers, support channels and end plates
- Hinged access panels with removable hinge pins and captive fasteners.
- Hinged drain pan with removable hinge pins
- Rugged heavy-gauge galvanized steel rail motor mount / support.
- Stackable design
- Schrader fitting and external equalizer line.
- Factory installed solenoid valve wire harness
- Unit shipped upright for convenient handling and quick installation.
- Capacities rated at R404a +25°F SST
- R407A, R448A, R407C, R404A, R507, R22, R134a
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)	
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	H
THP073HAT3A*[1]	73000	208-230	3	60	16400	2	2	9.6	10.8	1 5/8	53.03
THP086HAT3A*[1]	86000	208-230	3	60	15200	2	2	9.6	10.8	1 5/8	53.03
THP113HAT3A*[1]	113000	208-230	3	60	15600	2	2	11.2	15.1	2 1/8	53.03
THP130HAT3A*[1]	130000	208-230	3	60	22800	3	3	14.4	15.6	2 1/8	53.66
THP154HAT3A*[1]	154000	208-230	3	60	24700	3	3	16.8	20.1	2 1/8	53.66
THP170HAT3A*[1]	170000	208-230	3	60	23500	3	3	16.8	20.1	2 1/8	53.66
THP189HAT3A*[1]	189000	208-230	3	60	25400	3	3	16.8	20.1	2 5/8	53.66
THP233HAT3A*[1]	233000	208-230	3	60	35600	4	4	22.4	30.1	2 5/8	57.28
THP252HAT3A*[1]	252000	208-230	3	60	33800	4	4	22.4	30.1	2 5/8	57.28
THP278HAT3A*[1]	278000	208-230	3	60	31000	4	4	22.4	30.1	2 5/8	57.28
THP073HAT4A*[1]	73000	460	3	60	16400	2	2	4.8	5.4	1 5/8	53.03
THP113HAT4A*[1]	113000	460	3	60	15600	2	2	5.6	6.3	2 1/8	53.03
THP154HAT4A*[1]	154000	460	3	60	24700	3	3	8.4	9.1	2 1/8	53.66
THP170HAT4A*[1]	170000	460	3	60	23500	3	3	8.4	9.1	2 1/8	53.66
THP189HAT4A*[1]	189000	460	3	60	25400	3	3	8.4	9.1	2 5/8	53.66
THP233HAT4A*[1]	233000	460	3	60	35600	4	4	11.2	15.1	2 5/8	57.28
THP252HAT4A*[1]	252000	460	3	60	33800	4	4	11.2	15.1	2 5/8	57.28
THP278HAT4A*[1]	278000	460	3	60	31000	4	4	11.2	15.1	2 5/8	57.28

[1] A2L models will have E at the end of the part number

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, TWO WAY MEDIUM PROFILE



TTM207MAS1D

TTM LINE, LOW VELOCITY AIR DEFROST, TWO-WAY, MEDIUM TEMP, 6 FPI

- EC motors with patented SmartSpeed® Technology
- Compatible with Low GWP Refrigerants
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion and minimizes weight for shipment, installation and service.
- Dual refrigeration coils with two-way air distribution reduces air velocities to minimize product dehydration.
- Air enters through fan and discharges two ways out of each coil side.
- Low height compact size usable storage space.
- Internally enhanced tube.
- Attractive and durable high-density polyethylene fan guards.
- Hinged drain pan provides convenient access for cleaning.
- Terminal board allows for easy electrical connect
- Medium temperature: 10°F to 45°F Evap Temp
- R407A, R407C, R448A, R449A, R404A, R507
- Capacity rated at R404A at 20/25°F
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TTM207MAS1D*[1]	5680	115	1	60	928	2	2	1.2	1.4	5/8	1/2	23.63
TTM209MAS1D*[1]	6850	115	1	60	807	2	3	1.2	1.4	5/8	1/2	23.63
TTM215MAS1D*[1]	12500	115	1	60	1900	2	2	2.4	3.4	7/8	1/2	23.63
TTM313MAS1D*[1]	10420	115	1	60	1242	3	3	1.8	2.0	5/8	1/2	23.63
TTM318MAS1D*[1]	14800	115	1	60	3030	3	3	3.6	4.9	7/8	1/2	23.63
TTM321MAS1D*[1]	16800	115	1	60	2850	3	3	3.6	4.9	1 1/8	1/2	23.63
TTM531MAS1D*[1]	25400	115	1	60	4630	5	5	6.0	7.9	1 1/8	7/8	23.63
TTM313MAS2D*[1]	10420	208-230	1	60	1242	3	3	0.9	1.0	5/8	1/2	23.63

[1] A2L models will have E at the end of the part number



TTM206LES2D

TTM LINE, LOW VELOCITY ELECTRIC DEFROST, TWO-WAY, LOW TEMP, 6 FPI

- Low temperature: -20°F to 0°F Evap Temp
- R407A, R448A, R449A, R404A, R507
- Capacities rated at R404a -20°F SST
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TTM206LES2D*[1]	4640	208-230	1	60	807	2	2	0.6	0.7	5/8	1/2	23.63
TTM309LES2D*[1]	6990	208-230	1	60	1242	3	3	0.9	1.0	5/8	1/2	23.63
TTM212LES2D*[1]	9220	208-230	1	60	2020	2	2	1.4	2.3	7/8	1/2	23.63
TTM315LES2D*[1]	12400	208-230	1	60	3030	3	3	2.1	3.3	1 1/8	1/2	23.63

[1] A2L models will have E at the end of the part number

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW VELOCITY



TLV106MAS1D

TLV LINE, LOW VELOCITY AIR DEFROST, TWO-WAY, MEDIUM TEMP, 7 FPI

- EC motors with patented SmartSpeed® Technology.
- Compatible with Low GWP Refrigerants
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion and minimizes weight for shipment, installation and service.
- Specially designed for quiet operation - ideal for prep. rooms.
- Dual refrigeration coils with two-way air distribution reduces air velocities to minimize product dehydration.
- Reduced operating charge with 3/8" OD tubing
- Spacious end compartment allows for easy component installation.
- Attractive and durable high-density polypropylene fan guards.
- Hinged drain pan provides convenient access for cleaning.
- Terminal board allows for easy electrical connections.
- Internally enhanced tube
- R407A, R407C, R448A, R449A, R404A, R507
- Capacity rated at R404A at 20/25°F Evap Temp
- EC motors with patented SmartSpeed® Technology high efficiency and high strength fan guard
- A2L Dual Rated equipment available

							Motor Data			Connection Size (In.)		
Part No.	Capacity (BTUH)	Voltage	Phase	Hertz	CFM	Number of Fans	Qty	FLA	MCA	Suction	Liquid	H
TLV106MAS1D*[1]	4870	115	1	60	850	1	1	0.8	1.9	5/8	1/2	28.25
TLV109MAS1D*[1]	7040	115	1	60	1120	1	1	1.6	1.9	7/8	1/2	28.25
TLV212MAS1D*[1]	10100	115	1	60	1500	2	2	1.6	3.4	7/8	1/2	28.25
TLV217MAS1D*[1]	14100	115	1	60	2000	2	2	3.2	3.4	1 1/8	1/2	28.25
TLV325MAS1D*[1]	20500	115	1	60	2785	3	3	4.8	4.9	1 1/8	1/2	28.25
TLV331MAS1D*[1]	24500	115	1	60	3400	3	3	4.8	4.9	1 1/8	7/8	28.25
TLV437MAS1D*[1]	30300	115	1	60	4000	4	4	6.4	6.4	1 1/8	7/8	28.25
TLV546MAS1D*[1]	37000	115	1	60	4840	5	5	8.0	7.9	1 3/8	7/8	28.25
TLV106MAS2D*[1]	4870	208-230	1	60	850	1	1	0.5	1.3	5/8	1/2	28.25
TLV109MAS2D*[1]	7040	208-230	1	60	1120	1	1	1.0	1.3	7/8	1/2	28.25
TLV212MAS2D*[1]	10100	208-230	1	60	1500	2	2	1.0	2.3	7/8	1/2	28.25
TLV217MAS2D*[1]	14100	208-230	1	60	2000	2	2	2.0	2.3	1 1/8	1/2	28.25
TLV331MAS2D*[1]	24500	208-230	1	60	3400	3	3	3.0	3.3	1 1/8	7/8	28.25
TLV437MAS2D*[1]	30300	208-230	1	60	4000	4	4	4.0	4.3	1 1/8	7/8	28.25
TLV441MAS2D*[1]	33300	208-230	1	60	4370	4	4	4.0	4.3	1 3/8	7/8	28.25
TLV546MAS2D*[1]	37000	208-230	1	60	4840	5	5	5.0	5.3	1 3/8	7/8	28.25

[1] A2L models will have E at the end of the part number

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AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



TEZA008L9HS2ET

A2L - TEZA LINE, LOW TEMPERATURE, OUTDOOR R454A/R454C/R455A, GENERATION E

- Compatible with Low GWP Refrigerants (A1 & A2L)
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Copeland scroll compressor
- High efficiency enhanced tube and fin condenser design
- SmartSpeed EC Fan Motor Technology standard on models using chassis 1
- Energy efficient PSC condenser fan motor on models using chassis 2 – 6
- Receiver with fusible plug and liquid shut off valve
- Suction service valve
- Pre-formed copper tubing
- Liquid injection (low temp. models)
- Unit leak tested and shipped with helium holding charge
- Fixed high pressure switch and adjustable low pressure control
- Receiver inlet valve on 2-fan units models only
- Discharge thermostat on applicable models only

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TEZA008L9HS2ET*[1]	0.8	208-230	1	60	1.0	9.0	1	5.3	5/8	3/8	30.38	24.88	19.38	205.00
TEZA010L9HS2ET*	1	208-230	1	60	1.0	10.3	1	5.3	5/8	3/8	30.38	36.38	19.38	205.00
TEZA015L9HS2ET*	1.5	208-230	1	60	1.0	11.9	1	5.3	5/8	3/8	30.38	36.38	19.38	210.00
TEZA020L9HS2ET*	2	208-230	1	60	1.0	18.4	1	11	7/8	3/8	30.38	36.38	19.38	315.00
TEZA025L9HS2ET*	2.5	208-230	1	60	1.1	21.6	1	14	7/8	1/2	30.38	36.38	19.88	335.00
TEZA030L9HS2ET*	3	208-230	1	60	1.1	19.0	1	14	7/8	3/8	30.38	36.38	19.88	425.00
TEZA035L9HS2ET*	3.5	208-230	1	60	1.1	23.9	1	14	7/8	1/2	30.38	36.38	19.88	430.00
TEZA045L9HS2ET*	4.5	208-230	1	60	2.1	33.4	1	22	1 1/8	1/2	32.88	43.88	30.38	435.00
TEZA055L9HS2ET*[2]	5.5	208-230	1	60	2.1	37.0	1	22	1 1/8	1/2	32.88	43.88	30.38	440.00
TEZA008L9HT3ET*	0.8	208-230	3	60	1.0	6.1	1	5.3	5/8	3/8	30.38	24.88	19.38	205.00
TEZA010L9HT3ET*	1	208-230	3	60	1.0	9.3	1	5.3	5/8	3/8	30.38	36.38	19.38	205.00
TEZA015L9HT3ET*	1.5	208-230	3	60	1.0	10.3	1	5.3	5/8	3/8	30.38	36.38	19.38	210.00
TEZA020L9HT3ET*	2	208-230	3	60	1.0	11.8	1	11	7/8	3/8	30.38	36.38	19.38	315.00
TEZA025L9HT3ET*	2.5	208-230	3	60	1.1	13.1	1	14	7/8	1/2	30.38	36.38	19.88	335.00
TEZA030L9HT3ET*	3	208-230	3	60	1.1	13.1	1	14	7/8	3/8	30.38	36.38	19.88	425.00
TEZA035L9HT3ET*	3.5	208-230	3	60	1.1	16.2	1	14	7/8	1/2	30.38	36.38	19.88	430.00
TEZA045L9HT3ET*	4.5	208-230	3	60	2.1	18.6	1	22	1 1/8	1/2	32.88	43.88	30.38	435.00
TEZA055L9HT3ET*	5.5	208-230	3	60	2.1	25.7	1	22	1 1/8	1/2	32.88	43.88	30.38	440.00
TEZA060L9HT3ET*	6	208-230	3	60	2.1	29.4	1	22	1 1/8	1/2	32.88	43.88	30.38	485.00
TEZA075L9HT3ET*	7.5	208-230	3	60	2.1	35.5	1	30	1 3/8	5/8	35.88	52.13	41.88	495.00
TEZA085L9HT3ET*	8.5	208-230	3	60	2.1	40.1	1	30	1 3/8	5/8	35.88	52.13	41.88	525.00
TEZA100L9HT3ET*	10	208-230	3	60	2.1	48.5	1	30	1 3/8	5/8	35.88	52.13	41.88	545.00
TEZA130L9HT3ET*	13	208-230	3	60	4.2	56.8	2	53	1 3/8	5/8	35.88	65.13	41.88	725.00
TEZA150L9HT3ET*	15	208-230	3	60	4.2	67.6	2	53	1 5/8	7/8	35.88	65.13	41.88	745.00
TEZA170L9HT3ET*	17	208-230	3	60	7.2	80.6	2	75	1 5/8	7/8	45.75	75.88	45.25	955.00
TEZA025L9HT4ET*[2]	2.5	460	3	60	0.6	6.8	1	14	7/8	1/2	30.38	36.38	19.88	335.00
TEZA030L9HT4ET*	3	460	3	60	0.6	6.9	1	14	7/8	3/8	30.38	36.38	19.88	425.00
TEZA035L9HT4ET*	3.5	460	3	60	0.6	8.6	1	14	7/8	1/2	30.38	36.38	19.88	430.00
TEZA045L9HT4ET*	4.5	460	3	60	1.1	11.0	1	22	1 1/8	1/2	32.88	43.88	30.38	435.00
TEZA055L9HT4ET*	5.5	460	3	60	1.1	12.2	1	22	1 1/8	1/2	32.88	43.88	30.38	440.00
TEZA060L9HT4ET*[2]	6	460	3	60	1.1	12.3	1	22	1 1/8	1/2	32.88	43.88	30.38	485.00
TEZA075L9HT4ET*	7.5	460	3	60	1.1	16.0	1	30	1 3/8	5/8	35.88	52.13	41.88	495.00
TEZA085L9HT4ET*	8.5	460	3	60	1.1	19.1	1	30	1 3/8	5/8	35.88	52.13	41.88	525.00
TEZA100L9HT4ET*	10	460	3	60	1.1	23.5	1	30	1 3/8	5/8	35.88	52.13	41.88	545.00
TEZA130L9HT4ET*	13	460	3	60	2.2	26.3	2	53	1 3/8	5/8	35.88	65.13	41.88	725.00
TEZA150L9HT4ET*	15	460	3	60	2.2	27.5	2	53	1 5/8	7/8	35.88	65.13	41.88	745.00
TEZA170L9HT4ET*	17	460	3	60	3.4	29.2	2	75	1 5/8	7/8	45.75	75.88	45.25	955.00

[1] AWEF for R404A, R507 [2] AWEF for R407A, R448A, R449A, R404A, R507

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



TEZA008H9HS2EB

A2L - TEZA LINE, HIGH TEMPERATURE, OUTDOOR R454A/R454C/R455A, GENERATION E

- Compatible with Low GWP Refrigerants (A1 & A2L)
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Copeland scroll compressor
- High efficiency enhanced tube and fin condenser design
- SmartSpeed EC Fan Motor Technology standard on models using chassis 1
- Energy efficient PSC condenser fan motor on models using chassis 2 – 6
- Receiver with fusible plug and liquid shut off valve
- Suction service valve
- Pre-formed copper tubing
- Liquid injection (low temp. models)
- Unit leak tested and shipped with helium holding charge
- Fixed high pressure switch and adjustable low pressure control
- Receiver inlet valve on 2-fan units models only
- Discharge thermostat on applicable models only
- Time delay relay for compressor

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TEZA008H9HS2EB*	0.8	208-230	1	60	1.0	8.9	1	5.3	5/8	3/8	30.38	24.88	19.38	188.00
TEZA009H9HS2EB*	0.9	208-230	1	60	1.0	11.0	1	5.3	5/8	3/8	30.38	24.88	19.38	188.00
TEZA010H9HS2EB*	1	208-230	1	60	1.1	13.6	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA011H9HS2EB*	1.1	208-230	1	60	1.1	16.9	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA015H9HS2EB*	1.5	208-230	1	60	1.1	16.1	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA025H9HS2EB*	2.5	208-230	1	60	2.1	24.6	1	22	7/8	1/2	30.38	36.38	19.88	405.00
TEZA030H9HS2EB*	3	208-230	1	60	2.1	21.1	1	22	7/8	1/2	32.88	43.88	30.38	410.00
TEZA035H9HS2EB*	3.5	208-230	1	60	2.1	21.5	1	22	7/8	1/2	32.88	43.88	30.38	415.00
TEZA040H9HS2EB*	4	208-230	1	60	2.1	27.7	1	22	1 1/8	1/2	32.88	43.88	30.38	420.00
TEZA045H9HS2EB*	4.5	208-230	1	60	2.1	30.0	1	22	1 1/8	1/2	32.88	43.88	30.38	425.00
TEZA050H9HS2EB*	5	208-230	1	60	2.1	29.7	1	22	1 1/8	1/2	32.88	43.88	30.38	425.00
TEZA007H9HT3EB*	0.7	208-230	3	60	1.0	7.0	1	5.3	5/8	3/8	30.38	24.88	19.38	183.00
TEZA008H9HT3EB*	0.8	208-230	3	60	1.0	7.5	1	5.3	5/8	3/8	30.38	24.88	19.38	188.00
TEZA009H9HT3EB*	0.9	208-230	3	60	1.0	7.6	1	5.3	5/8	3/8	30.38	24.88	19.38	188.00
TEZA010H9HT3EB*[1]	1	208-230	3	60	1.1	11.1	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA011H9HT3EB*	1.1	208-230	3	60	1.1	14.1	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA015H9HT3EB*[1]	1.5	208-230	3	60	1.1	13.2	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA020H9HT3EB*[1]	2	208-230	3	60	1.1	14.4	1	11	7/8	3/8	30.38	36.38	19.88	300.00
TEZA025H9HT3EB*	2.5	208-230	3	60	2.1	19.2	1	22	7/8	1/2	30.38	36.38	19.88	405.00
TEZA030H9HT3EB*	3	208-230	3	60	2.1	21.1	1	22	7/8	1/2	32.88	43.88	30.38	410.00
TEZA035H9HT3EB*	3.5	208-230	3	60	2.1	21.5	1	22	7/8	1/2	32.88	43.88	30.38	415.00
TEZA040H9HT3EB*	4	208-230	3	60	2.1	27.7	1	22	1 1/8	1/2	32.88	43.88	30.38	420.00
TEZA045H9HT3EB*	4.5	208-230	3	60	2.1	30.0	1	22	1 1/8	1/2	32.88	43.88	30.38	425.00
TEZA050H9HT3EB*	5	208-230	3	60	2.1	29.7	1	22	1 1/8	1/2	32.88	43.88	30.38	425.00
TEZA060H9HT3EB*	6	208-230	3	60	2.1	30.2	1	30	1 1/8	5/8	52.13	52.13	52.13	470.00
TEZA061H9HT3EB*	6.1	208-230	3	60	2.1	33.9	1	30	1 1/8	5/8	35.88	52.13	41.88	510.00
TEZA070H9HT3EB*	7	208-230	3	60	4.2	48.6	1	53	1 3/8	5/8	35.88	65.13	41.88	625.00
TEZA076H9HT3EB*	7.6	208-230	3	60	4.2	53.3	1	53	1 3/8	5/8	35.88	65.13	41.88	635.00
TEZA085H9HT3EB*	8.5	208-230	3	60	4.2	58.0	1	53	1 3/8	5/8	35.88	65.13	41.88	645.00
TEZA110H9HT3EB*	11	208-230	3	60	7.2	73.3	2	75	1 3/8	7/8	45.75	75.88	45.25	745.00
TEZA150H9HT3EB*[1]	15	208-230	3	60	7.2	86.0	2	75	1 5/8	7/8	45.75	75.88	45.25	845.00
TEZA020H9HS2EB*	2	208-230	1	60	1.1	20.7	1	11	7/8	3/8	30.38	36.38	19.88	300.00
TEZA076H9HT4EB*	7.6	460	3	60	2.2	23.6	1	53	1 3/8	5/8	35.88	65.13	41.88	635.00
TEZA085H9HT4EB*[1]	8.5	460	3	60	2.2	28.1	1	53	1 3/8	5/8	35.88	65.13	41.88	645.00
TEZA110H9HT4EB*	11	460	3	60	3.4	33.8	2	75	1 3/8	7/8	45.75	75.88	45.25	745.00
TEZA150H9HT4EB*	15	460	3	60	3.4	37.3	2	75	1 5/8	7/8	45.75	75.88	45.25	845.00

[1] AWEF for R407A, R407C, R448A, R449A, R404A, R507

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

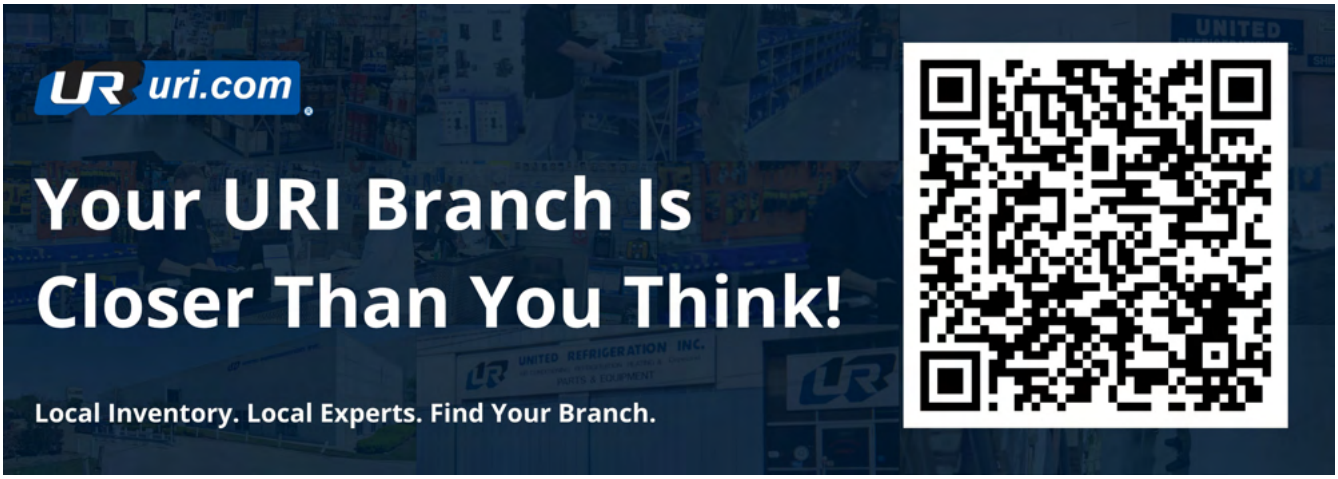

TEZA010H8HT3DBGF

TEZA LINE, HIGH TEMPERATURE, OUTDOOR R407A R407C R404A R448A R507

- Weatherproof electrical control box with compressor contactor and fused control circuit
- Copeland scroll compressor
- High efficiency enhanced tube and fin condenser design
- SmartSpeed EC Fan Motor Technology standard on models using chassis 1
- Energy efficient PSC condenser fan motor on models using chassis 2 – 6
- Receiver with fusible plug and liquid shut off valve
- Suction service valve
- Pre-formed copper tubing
- Liquid injection (low temp. models)
- Unit leak tested and shipped with helium holding charge
- Fixed high pressure switch and adjustable low pressure control
- Receiver inlet valve on 2-fan units models only
- Discharge thermostat on applicable models only
- Time delay relay for compressor

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TEZA010H8HT3DBGF*[1]	1	208-230	3	60	2.0	11.1	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA015H8HT3DBGF*[1]	1.5	208-230	3	60	2.0	13.2	1	11	5/8	3/8	30.38	36.38	19.88	285.00
TEZA020H8HT3DBGF*[1]	2	208-230	3	60	2.0	14.4	1	11	5/8	3/8	30.38	36.38	19.88	300.00
TEZA150H8HT3DB*[1]	15	208-230	3	60	5.8	86.0	2	75	1 5/8	7/8	45.75	75.88	45.25	845.00
TEZA025H8HT4DB*[1]	2.5	460	3	60	1.8	9.2	1	22	7/8	3/8	30.38	36.38	19.88	405.00
TEZA061H8HT4DB*[1]	6.1	460	3	60	1.8	18.1	1	30	1 1/8	5/8	35.88	52.13	41.88	510.00
TEZA070H8HT4DB*[1]	7	460	3	60	3.6	21.2	1	53	1 3/8	5/8	35.88	65.13	41.88	625.00
TEZA085H8HT4DB*[1]	8.5	460	3	60	3.6	28.1	1	53	1 3/8	5/8	35.88	65.13	41.88	645.00

[1] AWEF for R407A, R407C, R448A, R449A, R404A, R507



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



TQZA008L9HS2EE

A2L - TQZA LINE, LOW TEMPERATURE, OUTDOOR

The Quiet Unit is well-suited where space limitations, energy efficiency or sound levels are of concern. Designed for refrigeration duty, a wide range of options provide flexibility suitable for a variety of applications. Its compact design and attractive styling make the Quiet Unit highly desirable in urban or light commercial applications, and electronic controls offer remote monitoring capabilities and a wide array of alarms and diagnostic tools. Existing technologies have been combined for the first time to create a product specifically for the North American market. Variable-speed EC motors are used to control head pressure resulting in the lowest watt consumption of any comparable product currently available. Models feature energy-efficient Scroll Compressors.

- "E-Generation" TQZ condensing units are "Dual Rated" and support both A1 and A2L refrigerants.
- Compatible with low GWP refrigerants
- Heavy duty weatherproof construction
- Painted cabinet
- Copeland scroll compressors (except on 006H8 model)
- High efficiency enhanced tube and fin condenser design
- Gold Coat™ fins (epoxy coating)
- High efficiency variable speed EC motor as head pressure control
- Sealed liquid line filter drier and sight glass
- Heated and insulated receiver
- Receiver with fusible plug and liquid shut-off valve
- Suction & discharge service valves
- Suction accumulator
- Liquid injection
- Discharge temp sensor

								Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TQZA008L9HS2EE*	0.8	208-230	1	60	1.7	9.3	1	3/8	5/8	18.75	48.13	29.25	280.00
TQZA020L9HS2EE*	2	208-230	1	60	1.7	19.6	1	3/8	7/8	18.75	48.13	29.25	280.00
TQZA025L9HS2EE*	2.5	208-230	1	60	1.7	22.2	1	1/2	7/8	18.75	48.13	29.25	290.00
TQZA030L9HS2EE*	3	208-230	1	60	1.7	19.6	1	1/2	7/8	18.75	48.13	29.25	290.00
TQZA015L9HT3EE*	1.5	208-230	3	60	1.7	11.0	1	3/8	5/8	18.75	48.13	29.25	280.00
TQZA025L9HT3EE*	2.5	208-230	3	60	1.7	13.7	1	1/2	7/8	18.75	48.13	29.25	290.00
TQZA030L9HT3EE*	3	208-230	3	60	1.7	13.7	1	1/2	7/8	18.75	48.13	29.25	290.00
TQZA035L9HT3EE*	3.5	208-230	3	60	1.7	16.8	1	1/2	7/8	18.75	48.13	51.88	290.00
TQZA045L9HT3EE*	4.5	208-230	3	60	3.4	19.9	2	1/2	7/8	18.75	48.13	51.88	490.00
TQZA055L9HT3EE*	5.5	208-230	3	60	3.4	27.0	2	1/2	1 1/8	18.75	48.13	51.88	500.00
TQZA060L9HT3EE*	3	208-230	3	60	3.4	33.3	2	1/2	1 1/8	18.75	48.13	51.88	510.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



TQZA007H9HS2EA

A2L - TQZA LINE, MEDIUM TEMPERATURE, OUTDOOR

The Quiet Unit is well-suited where space limitations, energy efficiency or sound levels are of concern. Designed for refrigeration duty, a wide range of options provide flexibility suitable for a variety of applications. Its compact design and attractive styling make the Quiet Unit highly desirable in urban or light commercial applications, and electronic controls offer remote monitoring capabilities and a wide array of alarms and diagnostic tools. Existing technologies have been combined for the first time to create a product specifically for the North American market. Variable-speed EC motors are used to control head pressure resulting in the lowest watt consumption of any comparable product currently available. Models feature energy-efficient Scroll Compressors.

- "E-Generation" TQZ condensing units are "Dual Rated" and support both A1 and A2L refrigerants.
- Compatible with low GWP refrigerants
- Heavy duty weatherproof construction
- Painted cabinet
- Copeland scroll compressors (except on 006H8 model)
- High efficiency enhanced tube and fin condenser design
- Gold Coat™ fins (epoxy coating)
- High efficiency variable speed EC motor as head pressure control
- Sealed liquid line filter drier and sight glass
- Heated and insulated receiver
- Receiver with fusible plug and liquid shut-off valve
- Suction & discharge service valves

								Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TQZA007H9HS2EA*	0.7	208-230	1	60	1.7	9.2	1	3/8	5/8	18.75	48.13	29.25	260.00
TQZA008H9HS2EA*	0.8	208-230	1	60	1.7	9.6	1	3/8	5/8	18.75	48.13	29.25	260.00
TQZA009H9HS2EA*	0.9	208-230	1	60	1.7	11.7	2	3/8	5/8	18.75	48.13	29.25	260.00
TQZA010H9HS2EA*	1	208-230	1	60	1.7	14.2	2	3/8	5/8	18.75	48.13	29.25	265.00
TQZA011H9HS2EA*	1.1	208-230	1	60	1.7	17.5	2	3/8	5/8	18.75	48.13	29.25	265.00
TQZA015H9HS2EA*	1.5	208-230	1	60	1.7	16.7	2	3/8	7/8	18.75	48.13	29.25	275.00
TQZA020H9HS2EA*	2	208-230	1	60	1.7	21.3	2	3/8	7/8	18.75	48.13	29.25	275.00
TQZA025H9HS2EA*	2.5	208-230	1	60	1.7	24.2	2	1/2	7/8	18.75	48.13	29.25	275.00
TQZA030H9HS2EA*	3	208-230	1	60	1.7	30.7	2	1/2	7/8	18.75	48.13	29.25	285.00
TQZA035H9HS2EA*	3.5	208-230	1	60	3.4	32.9	1	1/2	7/8	18.75	48.13	51.88	480.00
TQZA040H9HS2EA*	4	208-230	1	60	3.4	36.0	1	1/2	7/8	18.75	48.13	51.88	480.00
TQZA050H9HS2EA*	5	208-230	1	60	3.4	42.3	1	1/2	1 1/8	18.75	48.13	51.88	515.00
TQZA007H9HT3EA*	0.7	208-230	3	60	1.7	7.7	1	3/8	5/8	18.75	48.13	29.25	260.00
TQZA008H9HT3EA*	0.8	208-230	3	60	1.7	8.2	1	3/8	5/8	18.75	48.13	29.25	260.00
TQZA010H9HT3EA*	1	208-230	3	60	1.7	11.7	1	3/8	5/8	18.75	48.13	29.25	265.00
TQZA011H9HT3EA*	1.1	208-230	3	60	1.7	14.7	1	3/8	5/8	18.75	48.13	29.25	265.00
TQZA015H9HT3EA*	1.5	208-230	3	60	1.7	13.8	1	3/8	7/8	18.75	48.13	29.25	275.00
TQZA020H9HT3EA*	2	208-230	3	60	0.9	15.0	1	3/8	7/8	18.75	48.13	29.25	275.00
TQZA025H9HT3EA*	2.5	208-230	3	60	1.7	18.8	1	1/2	7/8	18.75	48.13	29.25	275.00
TQZA030H9HT3EA*	3	208-230	3	60	1.7	20.7	1	1/2	7/8	18.75	48.13	29.25	285.00
TQZA035H9HT3EA*	3.5	208-230	3	60	3.4	22.8	2	1/2	7/8	18.75	48.13	51.88	480.00
TQZA040H9HT3EA*	4	208-230	3	60	3.4	29.0	2	1/2	7/8	18.75	48.13	51.88	480.00
TQZA045H9HT3EA*	4.5	208-230	3	60	3.4	31.3	2	1/2	7/8	18.75	48.13	51.88	515.00
TQZA050H9HT3EA*	5	208-230	3	60	3.4	31.5	2	1/2	1 1/8	18.75	48.13	51.88	515.00
TQZA060H9HT3EA*	6	208-230	3	60	3.4	31.5	2	1/2	1 1/8	18.75	48.13	51.88	520.00
TQZA020H9HT4EA*	2	460	3	60	1.7	13.6	2	3/8	7/8	18.75	48.13	29.25	275.00
TQZD030H9HT3EA*	3	208-230	3	60	3.4	19.2	2	1/2	7/8	18.75	48.13	51.88	480.00
TQZD040H9HT3EA*	4	208-230	3	60	3.4	23.0	2	1/2	7/8	18.75	48.13	51.88	480.00
TQZD050H9HT3EA*	5	208-230	3	60	3.4	33.0	2	1/2	1 1/8	18.75	48.13	51.88	515.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL


TQZA020L8HS2DE

TQZA LINE, LOW TEMPERATURE, OUTDOOR R22 R404A R407A R407C R448A R507

- AF, AG models include sealed liquid line filter drier, sight glass and mechanical time clock
- AG models include heated and insulated receiver (required in ambients below 10°F)
- Sound ratings at 100% fan speed and without sound insulated cabinet

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TQZA020L8HS2DE*	2	208-230	1	60	1.7	19.1	1	11	7/8	3/8	18.75	48.13	29.25	320.00
TQZA025L8HS2DE*	2.5	208-230	1	60	1.7	22.2	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA030L8HS2DE*	3	208-230	1	60	1.7	21.0	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA035L8HS2DE*	3.5	208-230	1	60	1.7	25.3	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA045L8HS2DE*	4.5	208-230	1	60	3.4	34.7	2	21.5	7/8	1/2	18.75	48.13	51.88	490.00
TQZA008L8HT3DE*	0.8	208-230	3	60	1.7	6.8	1	11	5/8	3/8	18.75	48.13	29.25	320.00
TQZA020L8HT3DE*	2	208-230	3	60	1.7	12.5	1	11	7/8	3/8	18.75	48.13	29.25	320.00
TQZA025L8HT3DE*	2.5	208-230	3	60	1.7	13.7	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA030L8HT3DE*	3	208-230	3	60	1.7	14.1	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA035L8HT3DE*	3.5	208-230	3	60	1.7	17.6	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA045L8HT3DE*	4.5	208-230	3	60	3.4	20.7	2	21.5	7/8	1/2	18.75	48.13	51.88	490.00
TQZA055L8HT3DE*	5.5	208-230	3	60	3.4	27.0	2	21.5	1 1/8	1/2	18.75	48.13	51.88	500.00
TQZA060L8HT3DE*	6	208-230	3	60	3.4	30.7	2	21.5	1 1/8	1/2	18.75	48.13	51.88	510.00
TQZA015L8HT4DE*	1.5	460	3	60	0.9	4.9	1	11	5/8	3/8	18.75	48.13	29.25	320.00


TQZA007H8HS2DA

TQZA LINE, MEDIUM TEMPERATURE, OUTDOOR

- AB, AD models include sealed liquid line filter drier and sight glass
- AD models include heated and insulated receiver (required for ambients below 10°F
- Sound ratings at 100% fan speed and without sound insulated cabinet

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TQZA007H8HS2DA*	0.7	208-230	1	60	1.7	9.2	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA008H8HS2DA*	0.8	208-230	1	60	1.7	9.6	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA009H8HS2DA*	0.9	208-230	1	60	1.7	11.7	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA010H8HS2DA*	1	208-230	1	60	1.7	14.2	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA011H8HS2DA*	1.1	208-230	1	60	1.7	17.5	1	11	5/8	3/8	18.75	48.13	29.25	305.00
TQZA015H8HS2DA*	1.5	208-230	1	60	1.7	16.7	1	14	7/8	3/8	18.75	48.13	29.25	305.00
TQZA020H8HS2DA*	2	208-230	1	60	1.7	21.3	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA025H8HS2DA*	2.5	208-230	1	60	1.7	24.2	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA030H8HS2DA*	3	208-230	1	60	1.7	30.7	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA035H8HS2DA*	3.5	208-230	1	60	3.4	32.9	1	21.5	7/8	1/2	18.75	48.13	51.88	490.00
TQZA040H8HS2DA*	4	208-230	1	60	3.4	36.0	1	21.5	7/8	1/2	18.75	48.13	51.88	515.00
TQZA045H8HS2DA*	4.5	208-230	1	60	3.4	38.7	2	21.5	7/8	1/2	18.75	48.13	51.88	515.00
TQZA050H8HS2DA*	5	208-230	1	60	3.4	38.3	2	21.5	1 1/8	1/2	18.75	48.13	51.88	515.00
TQZA008H8HT3DA*	0.8	208-230	3	60	1.7	8.2	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA009H8HT3DA*	0.9	208-230	3	60	1.7	8.3	1	11	5/8	3/8	18.75	48.13	29.25	300.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Connection Size (In.) Suction	Connection Size (In.) Liquid	Dimensions (In.) L	Dimensions (In.) W	Dimensions (In.) H	Ship Wgt (Lbs.)
TQZA010H8HT3DA*	1	208-230	3	60	1.7	11.7	1	11	5/8	3/8	18.75	48.13	29.25	300.00
TQZA015H8HT3DA*	1.5	208-230	3	60	1.7	13.8	1	14	7/8	3/8	18.75	48.13	29.25	305.00
TQZA020H8HT3DA*	2	208-230	3	60	1.7	15.0	1	14	7/8	3/8	18.75	48.13	29.25	325.00
TQZA025H8HT3DA*	2.5	208-230	3	60	1.7	18.8	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA030H8HT3DA*	3	208-230	3	60	1.7	20.7	1	14	7/8	1/2	18.75	48.13	29.25	325.00
TQZA035H8HT3DA*	3.5	208-230	3	60	3.4	22.8	1	21.5	7/8	1/2	18.75	48.13	51.88	490.00
TQZA040H8HT3DA*	4	208-230	3	60	3.4	29.0	1	21.5	7/8	1/2	18.75	48.13	51.88	515.00
TQZA045H8HT3DA*	4.5	208-230	3	60	3.4	31.3	2	21.5	7/8	1/2	18.75	48.13	51.88	515.00
TQZA050H8HT3DA*	5	208-230	3	60	3.4	31.0	2	21.5	1 1/8	1/2	18.75	48.13	51.88	515.00
TQZA060H8HT3DA*	6	208-230	3	60	3.4	31.5	2	21.5	1 1/8	1/2	18.75	48.13	51.88	520.00
TQZA011H8HT4DA*	1.1	460	3	60	0.9	6.3	1	11	5/8	3/8	18.75	48.13	29.25	305.00

AIR COOLED CONDENSING UNIT, SEMI-HERMETIC



TESA035L9HT3ET

A2L - TESA LINE, LOW TEMPERATURE, OUTDOOR R454A/R454C/R455A, GENERATION E

- Compatible with Low GWP Refrigerants (A1 & A2L)
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Spring mounted accessible semi-hermetic compressor with suction and discharge vibration eliminator
- High efficiency enhanced tube and fin condenser design
- Energy efficient PSC condenser fan motor
- Receiver with fusible plug and liquid shut off valve
- Fixed high pressure switch and adjustable low pressure control
- Receiver inlet and outlet shutoff valve (8HP and above)
- Suction service valve
- Unit leak tested and shipped with Helium holding charge
- Painted outdoor weather-resistant housing with removable hood
- Flooded head pressure control (Adjustable)
- Crankcase heater
- Fan cycling control (all 2 fan models)

Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Connection Size (In.) Suction	Connection Size (In.) Liquid	Dimensions (In.) L	Dimensions (In.) W	Dimensions (In.) H	Ship Wgt (Lbs.)
TESA035L9HT3ET*	3.5	208-230	3	60	2.1	22.1	1	22	1 1/8	1/2	32.88	43.88	30.38	588.00
TESA040L9HT3ET*	4	208-230	3	60	2.1	35.0	1	22	1 1/8	1/2	32.88	43.88	30.38	618.00
TESA060L9HT3ET*	6	208-230	3	60	2.1	37.4	1	30	1 1/8	1/2	35.88	52.13	41.88	781.00
TESA061L9HT3ET*	6.1	208-230	3	60	2.1	35.6	1	30	1 3/8	5/8	35.88	52.13	41.88	819.00
TESA075L9HT3ET*	7.5	208-230	3	60	2.1	40.5	1	30	1 3/8	5/8	35.88	52.13	41.88	827.00
TESA090L9HT3ET*	9	208-230	3	60	4.2	50.5	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA100L9HT3ET*	10	208-230	3	60	4.2	56.0	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA120L9HT3ET*	12	208-230	3	60	7.2	63.5	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA130L9HT3ET*	13	208-230	3	60	7.2	71.3	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA150L9HT3ET*	15	208-230	3	60	7.2	73.0	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA220L9HT3ET*	22	208-230	3	60	7.2	87.6	2	75	2 1/8	7/8	45.75	75.88	45.25	1185.00
TESA075L9HT4ET*	7.5	460	3	60	1.1	20.7	1	30	1 3/8	5/8	35.88	52.13	41.88	827.00
TESA090L9HT4ET*	9	460	3	60	2.2	23.1	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA100L9HT4ET*	10	460	3	60	2.2	25.5	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA120L9HT4ET*	12	460	3	60	3.4	31.5	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA130L9HT4ET*	13	460	3	60	3.4	35.4	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA150L9HT4ET*	15	460	3	60	3.4	36.3	2	75	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA220L9HT4ET*	22	460	3	60	3.4	43.5	2	75	2 1/8	7/8	45.75	75.88	45.25	1185.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, SEMI-HERMETIC



TESA050H9HT3EB

A2L - TESA LINE, HIGH TEMPERATURE, OUTDOOR R454A/R454C/R455A, GENERATION E

- Compatible with Low GWP Refrigerants (A1 & A2L)
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Spring mounted accessible semi-hermetic compressor with suction and discharge vibration eliminator
- High efficiency enhanced tube and fin condenser design
- Energy efficient PSC condenser fan motor
- Receiver with fusible plug and liquid shut off valve
- Fixed high pressure switch and adjustable low pressure control
- Receiver inlet and outlet shutoff valve (8HP and above)
- Suction service valve
- Unit leak tested and shipped with Helium holding charge
- Painted outdoor weather-resistant housing with removable hood
- Flooded head pressure control (Adjustable)
- Crankcase heater

Fan cycling control (all 2 fan models)

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TESA050H9HT3EB*	5	208-230	3	60	2.1	30.0	1	30	1 1/8	1/2	35.88	52.13	41.88	766.00
TESA051H9HT3EB*	5.1	208-230	3	60	2.1	30.0	1	30	1 1/8	1/2	35.88	52.13	41.88	766.00
TESA075H9HT3EB*	7.5	208-230	3	60	2.1	41.6	1	30	1 3/8	5/8	35.88	52.13	41.88	780.00
TESA077H9HT3EB*	7.7	208-230	3	60	4.2	44.2	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA080H9HT3EB*	8	208-230	3	60	4.2	55.5	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA100H9HT3EB*	10	208-230	3	60	4.2	58.7	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA120H9HT3EB*	12	208-230	3	60	7.2	67.3	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA150H9HT3EB*	15	208-230	3	60	7.2	81.7	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA200H9HT3EB*	20	208-230	3	60	7.2	86.7	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA100H9HT4EB*	10	460	3	60	2.2	27.2	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA120H9HT4EB*	12	460	3	60	3.4	32.9	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA150H9HT4EB*	15	460	3	60	3.4	39.6	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA200H9HT4EB*	20	460	3	60	5.4	43.2	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00



TESA060L8HT3DF

TESA LINE, LOW TEMPERATURE, OUTDOOR R404A R407A R407C R448A, AWEF COMPLIANT

- Outdoor weather-resistant housing with removable hood
- Flooded head pressure control (non-adjustable)
- Crankcase heater
- B Suffix: Liquid line filter drier and sight glass
- See Document Tab on URI.com for AWEF-compliant applications and capacities

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TESA060L8HT3DF*	6	208-230	3	60	3.5	38.8	1	31	1 1/8	1/2	35.88	52.13	41.88	781.00
TESA075L8HT3DF*	7.5	208-230	3	60	3.5	41.9	1	31	1 3/8	5/8	35.88	52.13	41.88	827.00
TESA100L8HT3DF*	10	208-230	3	60	4.2	58.8	2	54	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA150L8HT3DF*	15	208-230	3	60	7.2	76.4	2	76	1 5/8	7/8	45.75	75.88	45.25	1185.00
TESA150L8HT4DF*	15	460	3	60	3.4	38.3	2	76	1 5/8	7/8	45.75	75.88	45.25	1185.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


TESA100H8HT3DB

TESA LINE, HIGH TEMPERATURE, OUTDOOR R404A R407A R407C R448A AWEF COMPLIANT

- Outdoor weather-resistant housing with removable hood
- Flooded head pressure control (non-adjustable)
- Crankcase heater
- B Suffix: Liquid line filter drier and sight glass
- See Document Tab on URI.com for AWEF-compliant applications and capacities

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
TESA100H8HT3DB*	10	208-230	3	60	7.0	61.5	2	53	1 3/8	5/8	35.88	65.13	41.88	885.00
TESA150H8HT3DB*	12	208-230	3	60	10.6	85.1	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00
TESA150H8HT4DB*	15	460	3	60	5.4	41.7	2	75	1 3/8	7/8	45.75	75.88	45.25	1085.00

WATER COOLED CONDENSING UNIT, INDOOR, SEMI-HERMETIC


W030M8IT3

W LINE, MEDIUM/HIGH TEMPERATURE R407A R448A R407C R404A R507 R22

The W water-cooled condensing unit can be applied where air cooled units are not desirable or space is unavailable. This unit can operate with tower or city water and its size will allow operation in a minimum space; Shell and tube condensers are standard. Available in sizes from 3/4 Hp to 40 Hp, the unit is complete with high efficiency accessible hermetic compressors.

- Sturdy electrical control box with compressor contactor and fusedcontrol circuit
- Spring mounted, accessible semi-hermetic compressor
- Sealed liquid line filter drier and sight glass (5.0 HP and up)
- Discharge vibration eliminator
- Copper tubing secured with Hydra-Zorb/Cush-A-Clamp
- Shell and tube water cooled condenser with fusible plug or pressure relief valve and liquid shut off valve
- Adjustable dual high/low pressure control
- Oil failure control on all applicable models
- Demand Cooling™ on R22 low temp. models
- Suction and discharge service valve
- Receiver capacity for R22

					Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
W030M8IT3*	3	208-230	16.4	51	1 1/8	1/2	36.50	17.00	28.75	448.00
W050M8IT3*	5	208-230	27.9	59	1 1/8	1/2	42.50	17.00	28.88	623.00
W100M8IT3*	10	208-230	54.5	123	1 3/8	7/8	51.50	27.50	32.00	860.00
W150M8IT3*	15	208-230	74.5	173	1 5/8	1 1/8	51.63	27.50	34.00	943.00
W030M8IT4*	3	460	8.0	51	1 1/8	1/2	36.50	17.00	28.75	448.00
W050M8IT4*	5	460	13.0	59	1 1/8	1/2	42.50	17.00	28.88	623.00
W075M8IT4*	7.5	460	17.3	109	1 3/8	5/8	45.25	17.00	33.00	659.00
W150M8IT4*	15	460	36.3	173	1 5/8	1 1/8	51.63	27.50	34.00	943.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSER



TCS002S2A

TCS LINE, HORIZONTAL/VERTICAL AIR

The TCS air-cooled condenser is an economical and practical solution to small condensing unit applications. Available in nominal sizes from 2 to 24 tons THR. Also available in 460/1/60 and 575/1/60 power supply. Horizontal or vertical air discharge

- Heavy gauge galvanized steel cabinet
- ThermoSpan™ coil design eliminates tube failures on tube sheet
- Internally enhanced tubing with enhanced fin optimizes coil performance
- Energy efficient PSC motors with internal overload protection
- Unit shipped with nitrogen holding charge

		Capacity THR (BTUH)								Connection OD (In.)		Dimensions (In.)			
Part No.	Number of Fans	R22 20°F TD	R404A 15°F TD	Horse-power	Voltage	Phase	Hertz	CFM	MCA (Amps)	Inlet	Outlet	H	W	L	Ship Wgt (Lbs.)
TCS002S2A*	1	24800	18200	1/6	208-230	1	60	2180	1.4	5/8	3/8	38.38	24.25	26.50	127.00
TCS003S2A*	1	30800	22700	1/6	208-230	1	60	1950	1.4	5/8	1/2	38.38	24.25	26.50	131.00
TCS005S2A*	1	51900	38200	1/3	208-230	1	60	4570	2.7	7/8	5/8	38.38	31.75	39.00	150.00
TCS006S2A*	1	62300	45800	1/3	208-230	1	60	4080	2.7	7/8	5/8	38.38	31.75	39.00	157.00
TCS008S2A*	1	77500	57000	1/3	208-230	1	60	4570	2.7	1 1/8	7/8	38.38	31.75	39.00	197.00
TCS010S2A*	1	102000	74900	1/3	208-230	1	60	9140	4.8	1 1/8	7/8	38.38	31.75	56.50	254.00
TCS019S2A-2C*[1]	3	184000	135000	1/3	208-230	1	60	12240	6.9	1.625	1.125	38.38	41.63	83.00	381.00
TCS019T3A-2C*[1]	3	184000	135000	1/3	208-230	3	60	12240	4.6	1.625	1.125	38.38	41.63	83.00	381.00

[1] 2 Circuits



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE

A2L - BEL LINE LOW PROFILE, AIR DEFROST, MEDIUM TEMP



BEL0060AY6AMAB0403

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEL0060AY6AMAB0403*	1/20	6500	115	610	1	0.9	55	5/8	21.00
BEL0095AY6AMAB0403*	1/20	8000	115	1305	2	1.8	110	5/8	22.25
BEL0125AY6AMAB0000*	1/20	13000	115	1220	2	1.8	110	7/8	22.25
BEL0125AY6AMAB0403*	1/20	13000	115	1220	2	1.8	110	7/8	22.25

A2L - BEL LINE LOW PROFILE, ELECTRIC DEFROST, LOW TEMP



BEL0045BY6EEAB0403

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 20 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEL0045BY6EEAB0403*	1/20	4700	208-230	641	1	0.5	59	5/8	22.00
BEL0100BY6EEAB0403*	1/20	9000	208-230	1281	2	1.0	118	7/8	22.25
BEL0130BY6EEAB0403*	1/20	12000	208-230	2056	3	1.5	177	7/8	22.25

BEL LINE LOW PROFILE, AIR DEFROST



BEL0045AS6AMAB0000

- Capacity 10°F TD/25°F SST, R404A/R507A
- 2-Speed EC motors standard
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEL0045AS6AMAB0000*	1/20	4000	115	653	1	0.9	55	1/2	21.00
BEL0055AS6AMAB0000*	1/20	5200	115	610	1	0.9	55	5/8	22.25
BEL0060AS6AMAB0000*	1/20	6500	115	610	1	0.9	55	5/8	21.00
BEL0095AS6AMAB0000*	1/20	8000	115	1305	2	1.8	110	5/8	21.00
BEL0095AS6AMAB0200*	1/20	8000	115	1305	2	1.8	110	5/8	22.25
BEL0105AS6AMAB0000*	1/20	9200	115	1305	2	1.8	110	5/8	21.00
BEL0115AS6AMAB0000*	1/20	11700	115	1220	2	1.8	110	7/8	22.25
BEL0125AS6AMAB0000*	1/20	13000	115	1220	2	1.8	110	7/8	22.25
BEL0125AS6AMAB0400*	1/20	13000	115	1220	2	1.8	110	7/8	22.25
BEL0155AS6AMAB0000*	1/20	14000	115	1220	3	2.7	165	7/8	22.25
BEL0155AS6AMAB0400*	1/20	14000	115	1958	3	2.7	165	7/8	22.25

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEL0190AS6AMAB0000*	1/20	18000	115	1830	3	2.7	165	7/8	21.00
BEL0250AS6AMAB0000*	1/20	20800	115	2440	4	3.6	220	7/8	22.25
BEL0295AS6AMAB0000*	1/20	26000	115	3050	5	4.5	275	7/8	25.00
BEL0060BS6AMAB0000*	1/20	6500	208-230	610	1	0.5	55	5/8	22.25
BEL0095BS6AMAB0000*	1/20	8000	208-230	1305	2	1.0	110	5/8	22.25
BEL0095BS6AMAB0200*	1/20	8000	208-230	1305	2	1.0	110	5/8	22.25
BEL0105BS6AMAB0000*	1/20	9200	208-230	1305	2	1.0	110	5/8	22.25
BEL0125BS6AMAB0000*	1/20	13000	208-230	1220	2	1.0	110	7/8	22.25
BEL0155BS6AMAB0000*	1/20	14000	208-230	1958	3	1.5	165	7/8	22.25



BEL0040BS6EEAB0000

BEL LINE LOW PROFILE, ELECTRIC DEFROST

- Capacity 10°F TD/20°F SST, R404A/R507A
- Single Speed EC motors standard
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 20 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEL0040BS6EEAB0000*	1/20	3500	208-230	685	1	0.5	59	5/8	22.25
BEL0045BS6EEAB0000*	1/20	4700	208-230	641	1	0.5	59	5/8	22.25
BEL0065BS6EEAB0000*	1/20	6500	208-230	1371	2	1.0	110	5/8	21.00
BEL0080BS6EEAB0000*	1/20	7500	208-230	1371	2	1.0	118	5/8	22.25
BEL0100BS6EEAB0000*	1/20	9000	208-230	1281	2	1.0	118	7/8	22.25
BEL0100BS6EEAB0200*	1/20	9000	208-230	1281	2	1.0	118	7/8	22.25
BEL0130BS6EEAB0000*	1/20	12000	208-230	2056	3	1.5	177	7/8	22.25
BEL0130BS6EEAB0200*	1/20	12000	208-230	2056	3	1.5	177	7/8	22.25
BEL0155BS6EEAB0000*	1/20	14000	208-230	1922	3	1.5	177	1 1/8	22.25
BEL0170BS6EEAB0000*	1/20	16000	208-230	2741	4	2.0	236	7/8	22.25
BEL0205BS6EEAB0000*	1/20	18000	208-230	2562	4	2.0	236	1 1/8	22.25
BEL0240BS6EEAB0000*	1/20	20000	208-230	3203	5	2.5	295	1 1/8	25.00
BEL0255BS6EEAB0000*	1/20	24000	208-230	4112	6	3.0	354	1 1/8	25.00



BEC0065AS7AMAB0000

BEC SERIES, CENTER MOUNT EVAPORATOR, AIR DEFROST

- Refrigerants: R404A, R507A, R448A, R449A, R407A, R407F, R407C
- Capacity BTUH 25 @ 10°F T.D. R404A
- 2-Speed EC Motor
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEC0065AS7AMAB0000*	1/20	5200	115	610	1	0.8	55	1 1/8	20.00
BEC0130AS7AMAB0000*	1/20	9100	115	1220	2	1.7	110	1 1/8	20.00
BEC0175AS7AMAB0000*	1/20	10800	115	1830	3	2.5	165	1 1/8	20.00
BEC0200AS7AMAB0000*	1/20	13400	115	1830	3	2.5	165	1 1/8	20.00
BEC0285AS7AMAB0000*	1/20	20800	115	2440	4	3.4	220	1 1/8	20.00

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEC0225AS7AMAB0000*	1/20	22300	115	1830	3	2.5	165	1 1/8	20.00
BEC0130BS7AMAB0000*	1/20	9100	208-230	1220	2	0.8	110	1 1/8	20.00
BEC0175BS7AMAB0000*	1/20	10800	208-230	1830	3	1.3	165	1 1/8	20.00



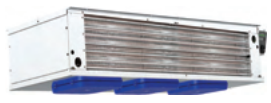
BEC0075BS6EMAB0000

BEC SERIES, CENTER MOUNT EVAPORATOR, ELECTRIC DEFROST

- Refrigerants: R404A, R507A, R448A, R449A, R407A, R407F, R407C
- Capacity BTUH 25 @ 10°F T.D. and BTUH -20°F at 10°F T.D. @ R404A
- See Document Tab on URI.com for AWEF-compliant applications and capacities

							Heater Data		Connection Size (In.)	
Part No.	HP	BTUH -20 Deg F at 10 Deg F	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEC0075BS6EMAB0000*	1/20	6500	7450	208-230	1220	2	0.8	110	1 1/8	20.00
BEC0120BS6EMAB0000*	1/20	9000	10350	208-230	1830	3	1.3	165	1 1/8	20.00
BEC0135BS6EMAB0000*	1/20	13000	14950	208-230	1830	3	1.3	165	1 1/8	20.00
BEC0180BS6EMAB0000*	1/20	17400	20000	208-230	2440	4	1.7	220	1 1/8	20.00

WALK-IN EVAPORATOR, LOW VELOCITY



BEV0080AS6AMAB0000

CENTER MOUNT EVAPORATOR, LOW VELOCITY, AIR DEFROST, BEV SERIES

- Refrigerants: R404A, R507A, R448A, R449A, R407A, R407F, R407C
- Capacity BTUH 25 @ 10°F T.D. R404A
- 2-Speed EC Motor
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	Capacity (BTUH)	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEV0080AS6AMAB0000*	1/20	8050	115	725	1	0.8	55	1 3/8	24.50
BEV0125AS6AMAB0000*	1/20	12150	115	1450	2	1.7	110	1 3/8	24.50
BEV0160AS6AMAB0000*	1/20	15950	115	1450	2	1.7	110	1 3/8	24.50
BEV0180AS6AMAB0000*	1/20	17850	115	2175	3	2.5	165	1 3/8	24.50
BEV0215AS6AMAB0000*	1/20	21450	115	2175	3	2.5	165	1 3/8	24.50



BEV0160BS6EMAB0000

CENTER MOUNT EVAPORATOR, LOW VELOCITY, ELECTRIC DEFROST, BEV SERIES

- Refrigerants: R404A, R507A, R448A, R449A, R407A, R407F, R407C
- Capacity BTUH 25 @ 10°F T.D. R404A
- 2-Speed EC Motor
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	Capacity (BTUH)	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
BEV0160BS6EMAB0000*	1/20	15950	208-230	1450	2	0.8	55	1 3/8	24.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



BCH0005MBACZA0000

BCH LINE MEDIUM TEMPERATURE R404A R407A R407C R448A R449A R507

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
BCH0005MBACZA0000*	0.5	208-230	1	60	0.5	15.0	1	9	5/8	3/8	31.25	34.00	27.50	167.00
BCH0008MBACZA0000*	3/4	208-230	1	60	0.5	15.0	1	9	5/8	3/8	31.25	34.00	27.50	168.00
BCH0010MBACZA0000*	1	208-230	1	60	0.5	15.0	1	9	5/8	3/8	31.25	34.00	27.50	179.00
BCH0015MBACZA0000*	1.5	208-230	1	60	1.0	15.0	2	14	7/8	1/2	45.25	34.00	27.50	221.00
BCH0020MBACZA0000*	2	208-230	1	60	1.0	20.0	2	14	7/8	1/2	45.25	34.00	27.50	221.00
BCH0030MBACZA0000	3	208-230	1	60	3.5	29.5	1	20	7/8	1/2	50.00	36.00	37.00	297.00
BCH0055MBACZA0000*	5	208-230	1	60	3.5	39.2	1	20	1 1/8	1/2	50.00	36.00	37.00	332.00
BCH0008MCACZA0000*	3/4	208-230	3	60	0.5	15.0	1	9	5/8	3/8	31.25	34.00	27.50	168.00
BCH0010MCACZA0000*	1	208-230	3	60	0.5	15.0	1	9	5/8	3/8	31.25	34.00	27.50	179.00
BCH0015MCACZA0000*	1.5	208-230	3	60	1.0	15.0	2	14	7/8	1/2	45.25	34.00	27.50	221.00
BCH0020MCACZA0000*	2	208-230	3	60	1.0	15.0	2	14	7/8	1/2	45.25	34.00	27.50	221.00
BCH0025MCACZA0000*	2	208-230	3	60	1.0	20.0	2	14	7/8	1/2	45.25	34.00	27.50	230.00
BCH0030MCACZA0000*	3	208-230	3	60	3.5	20.6	1	20	7/8	1/2	50.00	36.00	37.00	297.00
BCH0035MCACZA0000*	3	208-230	3	60	3.5	20.9	1	20	7/8	1/2	50.00	36.00	37.00	300.00
BCH0045MCACZA0000*	4	208-230	3	60	3.5	26.5	1	20	1 1/8	1/2	50.00	36.00	37.00	327.00
BCH0050MCACZA0000*	5	208-230	3	60	3.5	28.5	1	20	1 1/8	1/2	50.00	36.00	37.00	330.00
BCH0055MCACZA0000*	5	208-230	3	60	3.5	27.5	1	20	1 1/8	1/2	50.00	36.00	37.00	332.00
BCH0060MCACZA0000*	6	208-230	3	60	3.5	30.3	1	20	1 1/8	1/2	50.00	36.00	37.00	335.00



BCH0025LBACZA0200

BCH LINE LOW TEMPERATURE R404A R407A R407C R407F R448A R449A R507

									Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	Motor FLA	MCA (Amps)	Number of Fans	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
BCH0025LBACZA0200*	2	208-230	1	60	1.0	20.0	2	14	7/8	1/2	45.25	34.00	27.50	230.00
BCH0025LCACZA0200*	2	208-230	3	60	1.0	15.0	2	14	7/8	1/2	45.25	34.00	27.50	230.00
BCH0055LCACZA0300*	5	208-230	3	60	3.5	24.7	1	20	7/8	1/2	50.00	36.00	37.00	323.00
BCH0060LCACZA0300*	6	208-230	3	60	3.5	30.3	1	20	7/8	1/2	50.00	36.00	37.00	327.00
BCH0022LDACZA0200	2	460	3	60	0.5	15.0	2	9	5/8	3/8	31.25	34.00	27.50	173.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSER



DVT0011

DIRECT DRIVE, VERTICAL/HORIZONTAL

- Industrial-duty modular design for strength in a compact size
- High efficiency condenser coils of aluminum fins/copper tubes
- Energy-efficient, thermally protected motors
- Fully baffled fan sections provide structural strength and prevent fan windmilling in the off cycle
- Voltage: 208-230/1/60
- 1075 RPM motor
- Adjustable height 40 1/2" to 49 1/2" (DVT0051 and larger)

		Capacity THR (BTUH)							Connection OD (In.)		Dimensions (In.)			
Part No.	Number of Fans	R22 20°F TD	R404A 15°F TD	Voltage	Phase	Hertz	CFM	MCA (Amps)	Inlet	Outlet	H	W	L	Ship Wgt (Lbs.)
DVT0011*[1]	1	15200	11172	208-230	1	60	2400	2.5	3/8	3/8	34.00	26.00	52.00	112.00

[1] + = plus fan guard height



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN EVAPORATOR, LOW PROFILE



LEL0100BS6EEAB0000

LEL LINE LOW PROFILE, ELECTRIC DEFROST

- Capacity 10°F TD/20°F SST, R404A/R507A
- Single Speed EC motors standard
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 20 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
LEL0100BS6EEAB0000*	1/20	9000	208-230	1281	2	1.0	118	7/8	22.25
LEL0100BS6EEAB0200*	1/20	9000	208-230	1281	2	1.0	118	7/8	22.25
LEL0130BS6EEAB0000*	1/20	12000	208-230	2056	3	1.5	177	7/8	22.25



LEL0060AS6AMAB0000

LEL LINE LOW PROFILE, AIR DEFROST

- Capacity 10°F TD/25°F SST, R404A/R507A
- 2-Speed EC motors standard
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
LEL0060AS6AMAB0000*	1/20	6500	115	610	1	0.9	55	5/8	21.00
LEL0095AS6AMAB0000*	1/20	8000	115	1305	2	1.8	110	5/8	21.00
LEL0095AS6AMAB0400*	1/20	8000	115	1305	2	1.8	110	5/8	22.25
LEL0105AS6AMAB0000*	1/20	9200	115	1305	2	1.8	110	5/8	21.00
LEL0105AS6AMAB0400*	1/20	9200	115	1305	2	1.8	110	5/8	22.25
LEL0115AS6AMAB0000*	1/20	11700	115	1220	2	1.8	110	7/8	22.25
LEL0125AS6AMAB0000*	1/20	13000	115	1220	2	1.8	110	7/8	22.25
LEL0125AS6AMAB0400*	1/20	13000	115	1220	2	1.8	110	7/8	22.25
LEL0155AS6AMAB0000*	1/20	14000	115	1220	3	2.7	165	7/8	22.25
LEL0190AS6AMAB0000*	1/20	18000	115	1830	3	2.7	165	7/8	21.00
LEL0250AS6AMAB0000*	1/20	20800	115	2440	4	3.6	220	7/8	22.25



LEC0130AS7AMAB0000

CENTER MOUNT EVAPORATOR, AIR DEFROST, LEC SERIES

- Air Defrost
- Refrigerants: R404A, R507A, R448A, R449A, R407A, R407F, R407C
- Capacity BTUH 25 @ 10°F T.D. R404A
- 2-Speed EC Motor
- See Document Tab on URI.com for AWEF-compliant applications and capacities

						Heater Data		Connection Size (In.)	
Part No.	HP	BTUH 25 Deg F at 10 Deg F	Voltage	CFM	Number of Fans	Amps	Watts	Suction	H
LEC0130AS7AMAB0000*	1/20	9100	115	1220	2	1.7	110	1 1/8	20.00
LEC0175AS7AMAB0000*	1/20	10800	115	1830	3	2.5	165	1 1/8	20.00
LEC0200AS7AMAB0000*	1/20	13400	115	1830	3	2.5	165	1 1/8	20.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REACH-IN EVAPORATOR


U0090AB

DUAL-AIRE, AIR DEFROST

- Used whenever a small, compact unit is required. It can be mounted on the ceiling or wall.
- Draws air through the front and discharges it out both sides to insure proper distribution of cool air and thus maintain uniform box temperature
- Textured aluminum cabinet
- Twin air flow cooling
- Cabinet assembled with stainless steel screws
- Full collar aluminum fins on expanded copper tubes
- All sizes UL component recognized, NSF approved
- UK models have coated coils
- Voltage: 115/1/60
- Height less drain spud: 1 7/16"
- Connection: ODS Suction x Flare Inlet
- Capacity @ 10°F TD

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
U0090AB*	850	115	1	60	190	1	0.5	3/8	8.50	8.88	11.50	8.00
U0120AB*	1150	115	1	60	250	1	0.5	3/8	8.50	8.88	17.50	10.00
U0150AB*	1500	115	1	60	310	1	1.1	3/8	9.50	10.88	17.50	12.00
UK0090AB*[1]	850	115	1	60	190	1	0.5	3/8	11.50	10.00	14.00	9.04
UK0120AB*[1]	1150	115	1	60	250	1	0.5	3/8	8.50	8.88	17.50	10.00
UK0150AB*[1]	1500	115	1	60	310	1	1.1	3/8	9.50	10.88	17.50	12.00

[1] w/ coated coil


VA06AG

VEE-AIRE, AIR DEFROST

- Designed for use in small reach-ins, back bar and under counter refrigerators
- The unit can be mounted from the ceiling or off the back wall or end walls
- Attractive grained aluminum cabinet
- Molded Lexan® fan guard
- Plate-type aluminum fins with full collars on expanded copper tubes
- Expansion valve mounts inside cabinets
- All models UL listed and CSA certified
- Certified to NSF
- VAK models have coated coils
- Height less drain spud: (1 7/16")
- Width less mounting and suction connection
- Connection: IDS Suction x ODS Inlet
- Capacity @ 10°F TD

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
VA06AG*	600	115	1	60	135	1	0.8	3/8	6.88	8.13	12.50	7.00
VA08AG*	800	115	1	60	130	1	0.8	3/8	6.88	8.13	12.25	7.00
VA12AG*	1200	115	1	60	265	2	1.6	3/8	11.00	8.75	22.75	11.00
VA17AG*	1700	115	1	60	245	1	1.0	3/8	9.75	10.50	14.00	13.00
VAK06AG*[1]	600	115	1	60	135	1	0.8	3/8	6.88	8.13	12.50	7.00
VAK08AG*[1]	800	115	1	60	130	1	0.8	3/8	10.00	8.75	12.25	7.00
VAK12AG*[1]	1200	115	1	60	265	2	1.6	3/8	11.00	8.75	23.00	11.00
VAK17AG*[1]	1700	115	1	60	245	1	1.0	3/8	13.00	12.25	18.75	13.00

[1] w/ coated coil

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REACH-IN EVAPORATOR



TA10AG

TOP-AIRE, AIR DEFROST

Thin unit which mounts in the top of a refrigerator and makes the entire top shelf area usable. The attractive low silhouette makes the Top-Aire particularly desirable for display type refrigerators. It can also be used in back bars, under counter cabinets or wherever space is at a premium.

- TAK models have coated coils
- All models UL listed, CSA certified, and certified to NSF standards
- Attractive grained aluminum cabinet
- Drain fitting mounted at 45° - drain can be run through back or bottom of refrigerator
- Room for expansion valve inside - out of sight
- Capacity @ 10°F TD
- Connection: IDS Suction x ODS Inlet
- Width includes mounting lugs (2")

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
TA10AG*	1000	115	1	60	110	1	0.8	3/8	4.50	15.50	16.50	12.00
TA13AG*	1300	115	1	60	205	2	1.6	3/8	4.50	15.50	20.50	16.00
TA17AG*	1700	115	1	60	205	2	1.6	3/8	4.50	16.50	24.00	18.00
TA23AG*	2300	115	1	60	315	3	2.4	3/8	4.50	16.50	31.63	24.00
TA30AG*	3000	115	1	60	320	3	2.4	1/2	4.50	16.50	40.00	28.00
TA43AG*	4300	115	1	60	425	4	3.2	5/8	6.50	16.50	53.38	32.00
TA55AG*	5500	115	1	60	545	5	4.0	5/8	6.50	16.50	53.38	43.00
TAK10AG*[1]	1000	115	1	60	110	1	0.8	3/8	7.25	17.00	17.25	12.00
TAK13AG*[1]	1300	115	1	60	205	2	1.6	3/8	4.50	15.50	20.50	16.00
TAK17AG*[1]	1700	115	1	60	205	2	1.6	3/8	7.80	18.00	24.50	18.00
TAK23AG*[1]	2300	115	1	60	315	3	2.4	3/8	4.50	16.50	31.63	24.00
TAK30AG*[1]	3000	115	1	60	320	3	2.4	1/2	4.50	16.50	40.00	28.00
TAK43AG*[1]	4300	115	1	60	425	4	3.2	5/8	6.50	16.50	53.38	32.00
TAK55AG*[1]	5500	115	1	60	545	5	4.0	5/8	6.50	16.50	53.38	43.00
TAK30BG*[1]	3000	208-230	1	60	320	3	2.4	1/2	8.00	18.00	41.50	28.00

[1] w/ coated coil



TL09AG

TOP-AIRE, ELECTRIC DEFROST

The TL low temperature cooler has a completely automatic defrost system. Having a normal operating range of +15°F to -20°F, this unit is ideally suited for such applications as commercial freezers, ice cream boxes, bakery freezers and dual-temp reach-in boxes. The electric defrost system incorporates the use of high quality tubular heaters having exceptionally long life. The Incoloy (high nickel-steel alloy) sheath gives lasting protection from oxidation and corrosion. Defrost termination and fan delay control, terminal block and junction box are mounted inside the cabinet.

- Plate type aluminum fins with full collars — copper tubes
- Capacity @ 10°F T.D.
- Connection: IDS Suction x ODS Inlet
- Width includes mounting lugs (2")

					Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
TL09AG*	115	1	60	110	1	0.8	3/8	4.50	15.50	16.50	13.00
TL12AG*	115	1	60	210	2	1.6	1/2	4.50	15.50	20.50	17.00
TL16AG*	115	1	60	210	2	1.6	1/2	4.50	16.50	24.00	20.00
TL21AG*	115	1	60	240	1	1.0	1/2	6.75	18.50	24.00	24.00
TL28AG*	115	1	60	335	3	1.2	1/2	10.25	18.00	32.75	28.00
TL09BG*	208-230	1	60	110	1	1.4	3/8	4.50	15.50	16.50	13.00
TL28BG*	208-230	1	60	335	3	1.2	1/2	10.25	18.00	32.75	28.00
TL35BG*	208-230	1	60	420	2	1.0	5/8	6.75	18.50	38.38	31.00
TL53BG*	208-230	1	60	595	3	1.5	7/8	6.75	18.50	49.13	47.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



C13AG

HIGH PROFILE, AIR DEFROST

A thin unit which mounts on top of a refrigerator and makes the entire top shelf area usable. The attractive low silhouette makes the Top-Aire particularly desirable for display type refrigerators. It can also be used in back bars, under counter cabinets or wherever space is at a premium.

- CK models have coated coils
- All models UL listed, CSA certified and certified to NSF standards
- Attractive grained aluminum cabinet
- Drain fitting mounted at 45° - drain can be run through back or bottom of refrigerator
- Room for expansion valve inside
- Depth: 15 3/4" includes top mounting lugs (2")
- Height: 8 7/8"
- Connection: IDS Suction x ODS Inlet
- Capacity at 10°F T.D.

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
C13AG*	1300	115	1	60	235	1	1.0	3/8	8.88	15.75	14.25	15.00
C17AG*	1700	115	1	60	250	1	1.0	1/2	8.88	15.75	17.25	17.00
C23AG*	2300	115	1	60	265	1	1.0	1/2	8.88	15.75	22.75	20.00
C30AG*	3000	115	1	60	480	2	2.0	1/2	8.88	15.75	27.75	26.00
C43AG*	4300	115	1	60	520	2	2.0	1/2	8.88	15.75	38.00	33.00
CK13AG*[1]	1300	115	1	60	235	1	1.0	3/8	8.88	15.75	14.25	15.00
CK17AG*[1]	1700	115	1	60	250	1	1.0	1/2	8.88	15.75	17.25	17.00
CK23AG*[1]	2300	115	1	60	265	1	1.0	1/2	8.88	15.75	22.75	20.00
CK30AG*[1]	3000	115	1	60	480	2	2.0	1/2	8.88	15.75	27.75	26.00
CK43AG*[1]	4300	115	1	60	520	2	2.0	1/2	8.88	15.75	38.00	33.00

[1] w/ coated coil



KMK13AG

MULLION, AIR DEFROST

Ideal for under-counter reach-in refrigerators. The thin line design allows the unit to be mounted behind the mullion with sufficient clearance for tray slides. A down flow fan arrangement is used with air drawn in at the top and discharged at the bottom.

- Ideal for bottled goods and beverage coolers
- Coated coil
- Capacity at 10°F T.D.
- Connection: IDS Suction x ODS Inlet
- Height less drain spud: (7/8")

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
KMK13AG*	1300	115	1	60	180	2	1.6	3/8	17.75	5.63	16.88	16.00
KMK17AG*	1700	115	1	60	170	2	1.6	3/8	19.75	5.63	16.88	18.00
KMK23AG*	2300	115	1	60	255	3	2.4	1/2	19.75	5.63	23.25	23.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REACH-IN EVAPORATOR



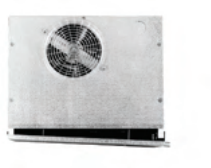
RAMK13AG

REVERSE MULLION, AIR DEFROST

An upflow air pattern is used with air drawn in at the bottom and discharged out at the top. This provides optimum temperature for drop in trays on salad bars or prep tables. An adjustable and detachable air deflector - splash protector is included. The deflector can be adjusted to direct the air up and out at a 45° angle. This feature provides excellent air distribution over drop trays or containers. The deflector can be adjusted to distribute air out both sides when used as a mullion unit.

- Coated coils
- Capacity @ 10°F T.D.
- Connection: IDS Suction x ODS Inlet
- Height less drain spud (7/8")

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
RAMK13AG*	1300	115	1	60	180	2	1.6	3/8	6.75	16.50	24.00	16.00
RAMK17AG*	1700	115	1	60	170	2	1.6	3/8	7.10	16.60	24.00	18.00
RAMK23AG*	2300	115	1	60	255	3	2.4	1/2	19.75	5.63	23.25	23.00
RAMK23BG*	2300	208-230	1	60	255	3	1.2	1/2	7.25	23.25	24.50	23.00



BBM11AG

BACK BAR, AIR DEFROST

- Suitable for under counter reach-in fixtures
- Top discharge with adjustable air deflector
- BBMM master units include TXV, Solenoid, Thermostat
- BBMS slave units include TXV
- BBM are basic units
- Connection: ODS Suction x Flare Inlet
- Capacity @ 10°F TD

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
BBM11AG*	1100	115	1	60	90	1	0.4	3/8	14.00	5.50	19.75	13.00
BBM16AG*	1600	115	1	60	180	2	1.6	3/8	14.00	5.50	26.25	19.00
BBMM11AG*	1100	115	1	60	90	1	0.8	3/8	7.50	17.25	25.50	14.00
BBM11AIOB404G	1100	115	1	60	90	1	0.8	3/8	7.50	17.25	25.50	15.00
BBM11AIOB407G	1100	115	1	60	90	1	0.8	3/8	7.50	17.25	25.50	15.00
BBM16AIOB404G	1600	115	1	60	180	2	1.6	3/8	7.50	17.25	32.00	21.00
BBM16AIOB407G	1600	115	1	60	180	2	1.6	3/8	7.50	17.25	32.00	21.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



BBL10AG

BACK BAR, ELECTRIC DEFROST

- Master units include TXV, Solenoid, Thermostat
- Slave units include TXV
- Voltage: 115/1/60
- Connection: ODS
- Capacity @ 10°F TD, -10°F SST

					Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
BBL10AG*	115	1	60	90	1	0.8	3/8	7.50	17.25	25.50	16.00
BBL15AG*	115	1	60	180	2	1.6	3/8	7.50	17.25	32.00	20.00



BTO09AG

TWIN COIL, AIR DEFROST

						Motor Data		Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	FLA	Suction	H	W	L	Ship Wgt (Lbs.)
BTO09AG*	900	115	1	60	130	1	0.8	1/2	4.88	16.13	19.13	12.00
BTO13AG*	1300	115	1	60	240	2	1.6	1/2	5.75	16.13	19.13	15.00
BTO18AG*	1800	115	1	60	255	1	1.0	1/2	5.75	16.13	19.13	16.00
BTO25AG*	2500	115	1	60	460	2	2.0	1/2	6.75	18.13	26.13	23.00
BTO35AG*	3500	115	1	60	425	2	2.0	1/2	6.75	18.13	26.13	25.00
BTO45AG*	4500	115	1	60	550	2	2.0	1/2	9.25	21.13	29.13	35.00
BTO55AG*	5500	115	1	60	730	1	2.0	1/2	8.50	21.13	29.13	35.00
BTOK09AG*[1]	900	115	1	60	130	1	0.8	1/2	4.88	16.13	19.13	12.00
BTOK13AG*[1]	1300	115	1	60	240	2	1.6	1/2	5.75	16.13	19.13	15.00
BTOK18AG*[1]	1800	115	1	60	255	1	1.0	1/2	5.75	16.13	19.13	16.00
BTOK25AG*[1]	2500	115	1	60	460	2	2.0	1/2	9.00	19.25	27.25	23.00
BTOK35AG*[1]	3500	115	1	60	425	2	2.0	1/2	9.00	19.25	27.25	25.00
BTOK55AG*[1]	5500	115	1	60	730	1	2.1	1/2	11.50	22.25	30.25	35.00

[1] w/ coated coil

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, INDOOR, HERMETIC

M-LINE CONDENSING UNITS

A labor cost savings solution...a fractional horsepower condensing unit with factory installed components significantly reduces on-site tube prepping, brazing, supplies and materials. In addition, it diminishes the need for frequent leak inspections since all filter drier and moisture indicator braze joints have been factory tested. Fewer job site problems and fewer call backs. Units with pressure controls have the new Emerson™ Electronic Unit Control (EUC) that allows pressure settings to be set and verified in less than a minute.
Fractional units reduce installation costs, reduce call backs and cut warranty expense.


M7JHH020IAA177

HIGH TEMPERATURE (1/8 TO 1 HP), VALUE ADD R134A R450A R513A

COPELAND

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M7JHH020IAA177	1/4	115	1	60	6.8	3/8 S	1/4 S	14.00	10.00	12.00	35.00
M7JHH029IAA177*	1/3	115	1	60	9.3	3/8 S	1/4 S	13.96	11.56	9.67	90.00
M7JHH029IAA179*	1/3	115	1	60	9.3	3/8 S	1/4 S	13.96	11.56	9.67	36.00
M7JHH042IAA177*	1/3	115	1	60	12.3	3/8 S	1/4 S	14.40	11.45	11.37	32.00
M7KH0086CFA072*	1	115	1	60	19.0	5/8 S	3/8 S	24.00	16.39	13.08	88.00
M7KH0075CFV177*	3/4	208-230	1	60	9.3	5/8 S	3/8 S	13.96	11.56	9.67	86.00
M7KH0086CFV072*	1	208-230	1	60	11.2	5/8 S	3/8 S	24.00	16.39	13.08	85.00
M7KH0086CFV177*	1	208-230	1	60	11.2	5/8 S	3/8 S	24.00	16.39	13.08	81.32
M7TH0036IAA118	1/3	115	1	60	10.6	5/16	1/4	19.00	9.40	10.50	40.00
M7ZHH046IAA177*	1/2	115	1	60	12.8	1/2 S	3/8 S	17.45	13.46	11.71	42.00
M7ZHH046IAA179*	1/2	115	1	60	12.8	1/2 S	1/4 S	17.45	13.46	11.71	51.00
M7ZHH055CFA177*	1/2	115	1	60	14.6	5/8 S	3/8 S	17.31	13.56	11.70	73.00
M7ZHH055CFA179*	1/2	115	1	60	14.6	5/8 S	3/8 S	17.31	13.56	11.70	59.00
M7ZHH067CFA272*	2/3	115	1	60	17.1	5/8 S	3/8 S	17.31	13.82	12.29	73.00
M7ZHH046IAV177*	1/2	208-230	1	60	6.0	1/2 S	3/8 S	17.45	13.46	11.71	24.00
M7ZHH055CAV177*	1/2	208-230	1	60	8.6	1/2 S	3/8 S	17.31	13.56	11.70	65.00
M7ZHH067CFV272*	2/3	208-230	1	60	8.7	5/8 S	3/8 S	17.31	13.82	12.29	67.00


M6GPH064CAA177

EXTENDED MEDIUM TEMPERATURE (3/4 TO 1 HP), VALUE ADD R404A R407C R448A R449A

COPELAND

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M6GPH064CAA177*	2/3	115	1	60	14.8	1/2 S	3/8 S	18.86	14.34	11.79	42.00
M6GPH064CAV177*	2/3	208-230	1	60	7.6	1/2 S	3/8 S	18.86	14.34	11.79	68.00
M6KP0075CFA072*	3/4	115	1	60	20.8	1/2 S	3/8 S	24.00	16.39	13.08	48.00
M6KP0092CFA072*	1	115	1	60	20.3	1/2 S	3/8 S	24.00	16.39	13.08	46.00
M6KP0075CAV072*	3/4	208-230	1	60	9.7	1/2 S	3/8 S	24.00	16.39	13.08	85.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M6KP0092CAV072*	1	208-230	1	60	12.4	1/2 S	3/8 S	24.00	16.39	13.08	82.00
M6KP0102CAV072*	1	208-230	1	60	12.7	1/2 S	3/8 S	24.00	18.30	16.17	66.00
M6KP0106CFV072*	1	208-230	1	60	12.8	5/8 S	3/8 S	24.00	16.39	13.08	91.00
M6KP0106TAC072*	1	208-230	3	60	8.3	5/8 S	3/8 S	24.00	16.39	13.08	85.00
M6KP0112CFV072*	1	208-230	1	60	11.0	5/8 S	3/8 S	24.00	18.30	16.16	104.00
M6KP0112TAC072*	1	208-230	3	60	8.3	5/8 S	3/8 S	24.00	18.30	16.16	42.00
M6KP0127CFV072*	1 1/4	208-230	1	60	13.0	5/8 S	3/8 S	24.00	18.30	16.16	98.00
M6ZP0053IAA177*	1/2	115	1	60	14.0	1/2 S	3/8 S	15.67	12.12	11.37	70.00
M6ZP0053IAV177*	1/2	208-230	1	60	7.2	1/2 S	3/8 S	15.67	12.12	11.37	42.00



M6JM0017IAA177

MEDIUM TEMPERATURE (1/6 TO 1/2 HP), VALUE ADD R404A R407C R448A R449A

COPELAND

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M6JM0017IAA177*	1/6	115	1	60	5.7	3/8 S	1/4 S	13.91	11.32	9.67	39.00
M6JM0017IAA179*	1/6	115	1	60	5.7	3/8 S	1/4 S	13.91	11.32	9.67	45.00
M6TM0022IAA118*	1/4	115	1	60	6.7	5/16 S	1/4 S	16.00	13.00	11.00	35.00
M6JMH023IAA177*	1/4	115	1	60	6.7	3/8 S	1/4 S	13.91	11.32	9.67	52.00
M6ZM0025IAV177*	1/4	208-230	1	60	4.4	3/8 S	1/4 S	16.50	12.70	11.70	45.00
M6TM0027IAA118*	1/4	115	1	60	8.2	5/16 S	1/4 S	16.00	13.00	11.00	34.00
M6JMH028IAA177*	1/4	115	1	60	8.2	3/8 S	1/4 S	13.91	11.32	9.67	40.00
M6JMH028IAA179*	1/4	115	1	60	8.2	3/8 S	1/4 S	13.91	11.32	9.67	40.00
M6JMH035IAA179	1/3	115	1	60	9.7	3/8 S	1/4 S	18.86	14.34	11.79	85.00
M6JMH035IAA177	1/3	115	1	60	9.7	3/8 S	1/4 S	18.86	14.34	11.79	85.00
M6JMH043IAA177*	1/2	115	1	60	13.2	3/8 S	1/4 S	14.40	11.45	11.37	40.00
M6JMH035IAV177	1/3	208-230	1	60	5.5	3/8	1/4	18.86	14.34	11.79	50.00
M6JMH043CAV078*	1/2	208-230	1	60	7.7	3/8 S	1/4 S	16.56	13.06	11.74	75.00
M6QMH049IAA272*	1/2	115	1	60	13.4	3/8 S	1/4 S	15.70	12.00	11.40	47.26
M6QMH049CAV078*	1/2	208-230	1	60	7.7	3/8 S	1/4 S	15.70	12.00	11.40	45.00



M6JL0021IAA177

LOW TEMPERATURE (1/5 TO 1/2 HP), VALUE ADD R404A R448A R449A

COPELAND

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M6JL0021IAA177*	1/5	115	1	60	5.5	3/8 S	1/4 S	14.10	11.40	11.40	46.00
M6JLH030IAA177*	1/3	115	1	60	5.9	3/8 S	1/4 S	14.10	11.40	11.40	43.00
M6JLH030IAA179*	1/3	115	1	60	5.9	3/8 S	1/4 S	14.10	11.40	11.40	42.00
M6JLH041IAA177*	1/3	115	1	60	8.2	3/8 S	1/4 S	14.40	11.60	11.40	46.00
M6PL0052IAA177*	1/2	115	1	60	8.5	3/8 S	1/4 S	19.90	11.10	11.20	46.47
M6ZLH032IAA078	1/3	115	1	60	6.1	3/8	1/4	16.50	13.10	11.70	41.00
M6ZL0055IAV177*	1/2	208-230	1	60	6.0	3/8 S	1/4 S	16.58	11.70	13.10	53.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, INDOOR, SCROLL



FFAPA16ZCFV072

EXTENDED MEDIUM TEMPERATURE (3/4 TO 1 1/4 HP), SCROLL R134A R404A R407A R407C R448A R449A

- Improved efficiency from 10%-15% annually
- Optimized for multiple applications
- Receiver capacity (Lbs 90% Volume) rated for R404A
Equipped with electronic unit controller
- Troubleshooting diagnostics
- System protection
- Reduces potential service costs

AWEF scores for walk-in cooler applications are available under the document tab on www.uri.com

072 suffix: includes receiver with valve, suction valve, fan guard, conduit, pressure controls, drier/sightglass

075 suffix: includes receiver with valve, suction valve, fan guard, conduit, accumulator, pressure controls, drier/sightglass, crankcase heater, head pressure control valve

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FFAPA16ZCFV072*	1 1/2	208-230	1	60	13.9	12	7/8 S	3/8 S	24.10	20.42	19.10	106.00
FFAPA16ZTFC072*	1 1/2	208-230	3	60	11.4	12	7/8 S	3/8 S	24.10	20.42	19.10	106.00
FFAPA18ZCFV072*	1 1/2	208-230	1	60	17.1	12	7/8 S	3/8 S	24.34	24.10	23.23	109.00
FFAPA18ZTFC072*	1 1/2	208-230	3	60	14.4	12	7/8 S	3/8 S	24.34	24.10	23.23	109.00
FFAPA21ZCFV072*	2	208-230	1	60	17.8	15.5	7/8 S	3/8 S	25.06	34.06	19.03	174.00
FFAPA21ZTFC072*	2	208-230	3	60	14.9	15.5	7/8 S	3/8 S	25.06	34.06	19.03	174.00
FFAPA22ZCFV072*	2 1/4	208-230	1	60	22.4	15.5	7/8 S	3/8 S	34.06	25.06	19.03	174.00
FFAPA22ZCFV075*	2 1/4	208-230	1	60	22.4	24.2	7/8 S	3/8 S	34.06	25.06	19.03	174.00
FFAPA22ZTFC072*	2 1/4	208-230	3	60	16.1	15.5	7/8 S	3/8 S	34.06	25.06	19.03	174.00
FFAPA22ZTFC075*	2 1/4	208-230	3	60	16.1	24.2	7/8 S	3/8 S	34.06	25.06	19.03	174.00
FFAPA31ZCFV072*	3	208-230	1	60	25.3	15.5	7/8 S	3/8 S	25.03	40.15	20.13	174.00
FFAPA31ZCFV075*	3	208-230	1	60	25.3	24.2	7/8 S	3/8 S	25.03	40.57	23.16	210.00
FFAPA31ZTFC072*	3	208-230	3	60	19.9	15.5	7/8 S	3/8 S	25.03	40.15	20.13	186.00
FFAPA31ZTFC075*	3	208-230	3	60	19.9	24.2	7/8 S	3/8 S	25.03	40.57	23.16	174.00
FFAPA33ZCFV072*	3 1/2	208-230	1	60	31.8	15.5	1 1/8 S	3/8 S	27.55	40.95	23.10	174.00
FFAPA33ZCFV075*	3 1/2	208-230	1	60	31.8	24.2	1 1/8 S	3/8 S	27.55	40.95	23.10	170.00
FFAPA33ZTFC075*	3 1/2	208-230	3	60	21.8	24.2	1 1/8 S	3/8 S	27.55	40.95	23.10	188.00
FFAPA40ZCFV075*	4	208-230	1	60	33.1	34.4	1 1/8 S	1/2 S	44.06	28.19	27.44	245.00
FFAPA40ZTFC075*	4	208-230	3	60	23.0	34.4	1 1/8 S	1/2 S	44.06	28.19	27.44	245.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


FFAMA09ZCFV072

MEDIUM TEMPERATURE (3/4 TO 1 1/4 HP), SCROLL R134A R404A R407A R407C R448A R449A

- Improved efficiency from 10%-15% annually
- Optimized for multiple applications
- Receiver capacity (Lbs 90% Volume) rated for R404A

Equipped with electronic unit controller

- Troubleshooting diagnostics
- System protection
- Reduces potential service costs

Application flexibility

- Operating range of -30°F to 45°F evap (R-404A)
- Designed for up to 110° ambient
- Designed to work with multiple refrigerants
- Optional hood available

AWEF scores for walk-in cooler applications are available under the document tab on www.uri.com

072 suffix: includes receiver with valve, suction valve, fan guard, conduit, pressure controls, drier/sightglass

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FFAMA09ZCFV072*	3/4	208-230	1	60	8.9	7.3	7/8 S	3/8 S	24.00	20.32	19.12	220.00
FFAMA09ZTFC072*	3/4	208-230	3	60	7.0	7.3	7/8 S	3/8 S	24.00	20.32	19.12	237.00
FFAMA11ZCFV072*	1	208-230	1	60	9.3	7.3	7/8 S	3/8 S	24.00	20.32	19.12	195.00
FFAMA11ZTFC072*	1	208-230	3	60	7.6	7.3	7/8 S	3/8 S	24.00	20.32	19.12	195.00
FFAMA13ZCFV072*	1 1/4	208-230	1	60	11.4	7.3	7/8 S	3/8 S	24.10	20.32	19.12	187.00
FFAMA13ZTFC072*	1 1/4	208-230	3	60	8.0	7.3	7/8 S	3/8 S	24.10	20.32	19.12	187.00


FFALA10ZCFV072

LOW TEMPERATURE (1 TO 5 HP), SCROLL R404A R407A R448A R449A

- Improved efficiency from 10%-15% annually
- Optimized for multiple applications
- Receiver capacity (Lbs 90% Volume) rated for R404A

Equipped with electronic unit controller

- Troubleshooting diagnostics
- System protection

- Reduces potential service costs

AWEF scores for walk-in cooler applications are available under the document tab on www.uri.com

072 suffix: includes receiver with valve, suction valve, fan guard, conduit, pressure controls, drier/sightglass

075 suffix: includes receiver with valve, suction valve, fan guard, conduit, accumulator, pressure controls, drier/sightglass, crankcase heater, head pressure control valve

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FFALA10ZCFV072*	1	208-230	1	60	8.6	7.3	7/8	3/8	24.91	18.82	17.77	110.00
FFALA13ZCFV072*	1 1/4	208-230	1	60	10.3	7.3	7/8	3/8	24.91	18.82	17.77	121.00
FFALA13ZTFC072*	1 1/4	208-230	3	60	9.3	7.3	7/8	3/8	24.91	18.82	17.77	118.00
FFALA14ZCFV072*	1 1/2	208-230	1	60	12.2	13	7/8	3/8	24.86	18.82	19.08	124.00
FFALA14ZCFV075*	1 1/2	208-230	1	60	12.2	13	7/8	3/8	24.86	20.97	19.08	96.00
FFALA15ZCFV072*	1 1/2	208-230	1	60	18.4	13	7/8	3/8	24.86	20.42	19.08	120.00
FFALA15ZTFC072*	1 1/2	208-230	3	60	11.7	13	7/8	3/8	24.86	20.42	19.08	118.00
FFALA17ZCFV072*	1 3/4	208-230	1	60	18.7	13	7/8	3/8	24.86	20.42	19.08	123.00
FFALA17ZTFC072*	1 3/4	208-230	3	60	12.1	13	7/8	3/8	24.86	20.42	19.08	122.00
FFALA22ZCFV072*	2	208-230	1	60	21.9	15.5	7/8	3/8	34.03	25.09	18.87	211.00
FFALA22ZCFV075*	2	208-230	1	60	21.9	24.2	7/8	3/8	24.12	25.09	23.10	160.00
FFALA22ZTFC072*	2	208-230	3	60	15.7	15.5	7/8	3/8	34.03	25.09	18.87	204.00
FFALA22ZTFD072*	2	460	3	60	16.1	17.1	7/8	3/8	25.50	34.00	19.00	217.00
FFALA22ZTFD075*	2	460	3	60	8.4	24.2	7/8	3/8	25.50	34.00	19.00	220.00
FFALA26ZCFV072*	2 1/2	208-230	1	60	28.0	15.5	7/8	3/8	34.03	25.09	19.29	209.00
FFALA26ZTFC072*	2 1/2	208-230	3	60	19.8	15.5	7/8	3/8	34.03	25.09	19.29	176.00
FFALA26ZTFC075*	2 1/2	208-230	3	60	19.8	24.2	7/8	3/8	34.11	25.09	23.10	182.00
FFALA26ZTFD072*	2 1/2	460	3	60	11.2	15.5	7/8	3/8	25.50	34.00	19.00	221.00
FFALA26ZTFD075*	2 1/2	460	3	60	11.2	24.2	7/8	3/8	25.50	34.00	19.00	227.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, INDOOR, SCROLL

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FFALA30ZCFV072*	3	208-230	1	60	36.2	15.5	7/8	3/8	34.06	25.04	20.01	174.00
FFALA30ZTFC072*	3	208-230	3	60	21.5	15.5	7/8	3/8	34.06	25.04	20.01	174.00
FFALA40ZCFV072*	4	208-230	1	60	42.5	15.5	7/8	3/8	34.06	25.04	20.01	213.00
FFALA40ZTFC072*	4	208-230	3	60	29.5	15.5	7/8	3/8	34.06	25.04	20.01	213.00
FFALA40ZTFC075*	4	208-230	3	60	29.5	24.2	7/8	3/8	34.06	25.04	23.09	213.00
FFALA40ZTFD072*	4	460	3	60	15.2	15.5	7/8	3/8	34.06	25.04	20.01	213.00
FFALA50ZTFC072*	5	208-230	3	60	32.6	15.5	7/8	3/8	34.06	25.04	20.01	170.00
FFALA50ZTFD072*	5	460	3	60	14.8	15.5	7/8	3/8	34.06	25.04	20.01	170.00



FPAK010ZCFV072

HIGH/LOW TEMPERATURE (1 TO 4 HP), SCROLL R134A R404A

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FPAK010ZCFV072*	1	208-230	1	60	13.7	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	101.00
FPAK010ZTFC072*	1	208-230	3	60	11.2	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	100.00
FPAK012ZCFV072*	1 1/4	208-230	1	60	16.9	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	191.00
FPAK012ZTFC072*	1 1/4	208-230	3	60	14.2	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	220.00
FPAK013ZCFV072*	1 1/3	208-230	1	60	21.0	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	140.00
FPAK013ZTFC072*	1 1/3	208-230	3	60	14.7	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	24.00	17.06	16.62	120.00
FPAK015ZCFV072*	1 1/2	208-230	1	60	23.9	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	25.20	34.00	19.00	189.00
FPAK015ZTFC072*	1 1/2	208-230	3	60	18.5	7.4 (R134a) 6.3 (R404A)	5/8 S	3/8 S	25.20	34.00	19.00	189.00
FPAK020ZCFV072*	2	208-230	1	60	31.8	12.9 (R134a) 11.1 (R404A)	5/8 S	3/8 S	25.20	34.00	19.00	209.00
FPAK020ZTFC072*	2	208-230	3	60	21.8	12.9 (R134a) 11.1 (R404A)	5/8 S	3/8 S	25.20	34.00	19.00	209.00
FPAK039ZTFC071*	4	208-230	3	60	28.4	12.9 (R134a) 11.1 (R404A)	5/8 S	3/8 S	25.20	34.00	19.00	240.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



XFAM008ZCFV081

XF SERIES, MEDIUM TEMPERATURE

- Multi-Refrigerant: R22, R134a, R404A, R407C/A, R-448/449A
- Receiver capacity (Lbs 90% Volume) rated for R404A.

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
XFAM008ZCFV081*	3/4	208-230	1	60	8.6	9.1	7/8 S	1/2 S	40.58	17.23	33.08	208.00
XFAM008ZTFC081*	3/4	208-230	3	60	7.1	9.1	7/8 S	1/2 S	40.58	17.23	33.08	208.00
XFAM010ZCFV081*	1	208-230	1	60	8.9	9.1	7/8 S	1/2 S	40.58	17.23	33.08	215.00
XFAM010ZTFC081*	1	208-230	3	60	7.6	9.1	7/8 S	1/2 S	40.58	17.23	33.08	215.00
XFAM012ZCFV081*	1 1/4	208-230	1	60	11.1	9.1	7/8 S	1/2 S	40.58	17.23	33.08	220.00
XFAM012ZTFC081*	1 1/4	208-230	3	60	7.7	9.1	7/8 S	1/2 S	40.58	17.23	33.08	220.00
XFAM015ZCFV081*	1 1/2	208-230	1	60	13.6	9.1	7/8	1/2	40.58	17.23	33.08	218.00
XFAM015ZTFC081*	1 1/2	208-230	3	60	11.5	9.1	7/8	1/2	40.58	17.23	33.08	225.00
XFAM017ZCFV081*	1 1/2	208-230	1	60	16.8	9.1	7/8	1/2	40.58	17.23	33.08	219.00
XFAM017ZTFC081*	1 1/2	208-230	3	60	14.1	9.1	7/8	1/2	40.58	17.23	33.08	219.00
XFAM020ZCFV081*	2	208-230	1	60	16.1	9.1	7/8 S	1/2 S	40.58	17.23	33.08	245.00
XFAM020ZTFC081*	2	208-230	3	60	13.2	9.1	7/8 S	1/2 S	40.58	17.23	33.08	245.00
XFAM022ZCFV081*	2	208-230	1	60	20.7	9.1	7/8	1/2	40.58	17.23	33.08	220.00
XFAM022ZTFC081*	2	208-230	3	60	14.3	9.1	7/8	1/2	40.58	17.23	33.08	219.00
XFAM025ZCFV081*	2 1/2	208-230	1	60	23.6	9.1	7/8 S	1/2 S	40.58	17.23	33.08	245.00
XFAM025ZTFC081*	2 1/2	208-230	3	60	18.2	9.1	7/8 S	1/2 S	40.58	17.23	33.08	245.00
XFAM020DCFV081*	3	208-230	1	60	16.1	9.1	7/8	1/2	40.58	17.23	33.08	244.00
XFAM030ZCFV081*	3	208-230	1	60	30.1	9.1	7/8	1/2	40.58	17.23	33.08	236.00
XFAM030ZTFC081*	3	208-230	3	60	20.1	9.1	7/8	1/2	40.58	17.23	33.08	236.00
XFAM030DCFV081*	3	208-230	1	60	24.7	9.1	7/8	1/2	40.58	17.23	33.08	244.00
XFAM030DTFC081*	3	208-230	3	60	16.8	9.1	7/8	1/2	40.58	17.23	33.08	244.00
XFAM033ZCFV081*	3 1/4	208-230	1	60	30.6	9.1	7/8 S	1/2 S	40.58	17.23	33.08	250.00
XFAM033ZTFC081*	3 1/4	208-230	3	60	20.4	9.1	7/8 S	1/2 S	40.58	17.23	33.08	250.00
XFAM037ZCFV081*	3 3/4	208-230	1	60	33.7	9.1	7/8 S	1/2 S	40.58	17.23	33.08	250.00
XFAM037ZTFC081*	3 3/4	208-230	3	60	26.7	9.1	7/8 S	1/2 S	40.58	17.23	33.08	250.00
XFAM040DTFC081*	4	208-230	3	60	21.7	13.4	7/8	1/2	40.58	17.23	33.08	245.00
XFAM045ZCFV081*	4 1/2	208-230	1	60	37.4	13.4	7/8	1/2	40.58	17.23	33.08	285.00
XFAM045ZTFC081*	4 1/2	208-230	3	60	30.0	13.4	7/8	1/2	40.58	17.23	33.08	280.00
XFAM050DCFV081*	5	208-230	1	60	45.0	13.4	7/8	1/2	40.58	17.23	48.86	250.00
XFAM050DTFC081*	5	208-230	3	60	31.7	13.4	7/8	1/2	40.58	17.23	48.86	250.00
XFAM050ZCFV081*	5	208-230	1	60	41.9	13.4	7/8	1/2	40.58	17.23	48.86	292.00
XFAM050ZTFC081*	5	208-230	3	60	28.9	13.4	7/8	1/2	40.59	17.34	48.88	292.00
XFAM060DTFC081*	6	208-230	3	60	30.2	13.4	7/8	1/2	40.58	17.23	48.86	255.00
XFAM060ZTFC081*	6	208-230	3	60	31.0	13.4	7/8	1/2	40.58	17.23	48.86	299.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, OUTDOOR, SCROLL



XFAL008ZCFV081

XF SERIES, LOW TEMPERATURE

- Multi-Refrigerant: R404A, R407C/A, R-448/449A
- Receiver capacity (Lbs 90% Volume) rated for R404A.

COPELAND

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
XFAL008ZCFV081*	3/4	208-230	1	60	9.1	9.1	7/8	1/2	40.58	17.23	32.98	225.00
XFAL008ZTFC081*	3/4	208-230	3	60	6.2	9.1	7/8	1/2	40.58	17.23	32.98	221.00
XFAL009ZCFV081*	7/8	208-230	1	60	10.3	9.1	7/8	1/2	40.58	17.23	32.98	248.00
XFAL009ZTFC081*	7/8	208-230	3	60	9.3	9.1	7/8	1/2	40.58	17.23	32.98	250.00
XFAL010ZCFV081*	1	208-230	1	60	11.9	9.1	7/8	1/2	40.58	17.23	32.98	252.00
XFAL010ZTFC081*	1	208-230	3	60	10.4	9.1	7/8	1/2	40.58	17.23	32.98	247.00
XFAL012ZCFV081*	1 1/4	208-230	1	60	18.4	9.1	7/8	1/2	40.58	17.23	32.98	225.00
XFAL012ZTFC081*	1 1/4	208-230	3	60	11.8	9.1	7/8	1/2	40.58	17.23	32.97	221.00
XFAL035ZTFC081*	3 1/2	208-230	3	60	24.9	9.1	7/8	1/2	40.60	17.20	33.00	244.00
XFAL020ZCFV081*	2	208-230	1	60	21.6	9.1	7/8	1/2	40.58	17.28	32.98	246.00
XFAL020ZTFC081*	2	208-230	3	60	16.2	9.1	7/8	1/2	40.58	17.28	32.98	246.00
XFAL030ZTFC081*	3	208-230	3	60	17.2	9.1	7/8	1/2	40.59	17.34	32.97	246.00
XFAL035ZCFV081*	3 1/2	208-230	1	60	34.1	9.1	7/8	1/2	40.59	17.23	33.04	272.00
XFAL040ZCFV081*	4	208-230	1	60	40.1	13.4	7/8	1/2	40.59	17.34	48.88	274.00
XFAL040ZTFC081*	4	208-230	3	60	27.1	13.4	7/8	1/2	40.59	17.34	48.88	312.00
XFAL050ZTFC081*	5	208-230	3	60	28.9	13.4	7/8	1/2	40.59	17.34	48.88	323.00
XFAL051ZCFV081*	5	208-230	1	60	44.8	13.4	7/8	1/2	40.59	17.34	48.88	343.00
XFAL060ZTFC081*	6	208-230	3	60	34.0	13.4	7/8	1/2	40.59	17.23	48.88	341.00

WATER COOLED CONDENSING UNIT, HERMETIC, INDOOR



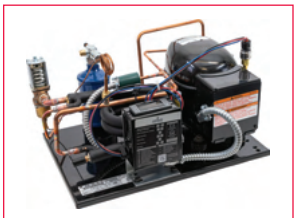
M7WM0075CFV020

HIGH TEMPERATURE R134A R450A R513A

COPELAND

					Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	MCA (Amps)	MOP	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M7WM0075CFV020*	3/4	208-230	10.0	15	5/8 S	3/8 S	17.45	13.46	11.71	82.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


M6WH0025IAA020

EXTENDED MEDIUM TEMPERATURE R404A R407C R448A R449A

COPELAND

					Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	MCA (Amps)	MOP	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
M6WH0025IAA020*	1/4	115	7.5	15	3/8 S	1/4 S	18.20	12.90	9.40	49.00
M6WH0036IAA020*	1/3	115	7.8	15	3/8 S	1/4 S	18.20	12.90	9.80	47.77
M6WH0050CAV020*	1/2	208-230	5.6	15	3/8 S	1/4 S	18.20	12.90	10.70	43.00
M6WF0056IAA020*	1/2	115	13.1	20	1/2 S	3/8 S	18.30	12.90	10.00	68.00
M6WF0056IAV020*	1/2	208-230	6.6	15	1/2 S	3/8 S	18.30	12.90	10.00	65.00
M6WF0075CAV020*	3/4	208-230	8.5	15	1/2 S	3/8 S	24.20	16.10	11.90	74.58
M6WF0106CAV020*	1	208-230	11.3	20	1/2 S	3/8 S	24.20	16.10	11.90	91.50
M6WF0125TAC020*	1 1/4	208-230	6.9	15	5/8 S	3/8 S	24.20	16.10	13.20	85.00


FFWP015ZCFV020

HIGH/MEDIUM TEMPERATURE R404A R134A R407C R22

Units are medium/high temperature (0 to 45°F) for R407C, R22, R134a and R404A with extended medium capacities to -30°F for R404A

COPELAND

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	MCA (Amps)	MOP	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
FFWP015ZCFV020*	1 1/2	208-230	12.5	20	11.2	7/8 S	3/8 S	24.00	16.90	16.60	99.00
FFWP015ZTFC020*	1 1/2	208-230	10.0	15	11.2	7/8 S	3/8 S	24.00	16.90	16.60	99.00
FFWP017ZCFV020*	1 3/4	208-230	15.8	15	11.2	7/8 S	3/8 S	24.00	16.90	16.60	120.00
FFWP017ZTFC020*	1 3/4	208-230	13.0	25	11.2	7/8 S	3/8 S	24.00	16.90	16.60	120.00
FFWP020ZCFV020*	2	208-230	15.0	25	11.2	7/8 S	3/8 S	24.00	16.90	16.60	120.00
FFWP020ZTFC020*	2	208-230	12.1	20	11.2	7/8 S	3/8 S	24.00	16.90	16.60	120.00
FFWP022ZCFV020*	2 1/4	208-230	19.6	35	11.2	7/8 S	3/8 S	24.00	16.90	16.60	120.00
FFWP022ZTFC020*	2 1/4	208-230	13.3	20	11.2	7/8 S	3/8 S	24.00	16.90	16.60	130.00
FFWP030ZCFV020*	3	208-230	22.5	40	11.2	7/8	3/8	27.20	21.50	18.20	75.00
FFWP030ZTFC020*	3	208-230	17.1	30	11.2	7/8	3/8	27.20	21.50	18.20	73.00
FFWP032ZCFV020*	3	208-230	23.1	40	11.2	1 1/8 S	3/8 S	27.20	21.50	18.20	164.00
FFWP032ZTFC020*	3	208-230	13.9	20	11.2	1 1/8 S	3/8 S	27.20	21.50	18.20	152.00
FFWP032ZTFD020*	3	460	7.0	15	11.2	1 1/8 S	3/8 S	27.20	21.50	18.20	164.00
FFWP042ZTFC020*	4	208-230	22.5	40	18.7	1 1/8 S	1/2 S	27.20	21.60	21.10	195.00
FFWP050ZTFC020*	5	208-230	26.8	45	18.7	1 1/8 S	1/2 S	27.50	21.70	21.10	218.00
FFWP050ZTFD020*	5	460	9.9	15	18.7	1 1/8 S	1/2 S	27.50	21.70	21.10	218.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED CONDENSING UNIT, INDOOR, HERMETIC



AE4440YAA1AGK

HIGH TEMPERATURE (1/6 TO 1/3 HP), EVAPCON R134A R513A

Feature Guide - G = Fan Guard; C = Power Cord; R = Receiver Tank; V = Service Valve

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AE4440YAA1AGK*	1/3	115	1	60	9.8	NA	5/16	1/4	16.00	11.50	8.90	40.00
AE4440YAA1AGB*	1/3	115/1	1	60	9.8	2.47	5/16	1/4	16.00	11.50	8.90	40.00
AE4440YAA1AGC*	1/3	115	1	60	9.8	2.47	5/16 VLV	1/4 VLV	16.00	11.50	8.90	40.00



AE3425YAA1ASS

CELSEON, HIGH TEMPERATURE

- Choose between a shaded pole fan motor for standard effciency or an electronically commutated (EC) type for higher efficiency.
- Molded fan shroud directs air flow across entire coil surface, optimizing system performance.
- Our compressors with quality, corrosion resistant components to deliver longer life and greater up-time.
- Sweat connections (except otherwise noted) and electrical screw terminations simplify your installation, saving you time and money. Modular components provide quick and easy replacement.
- Compact design works well in space restricted applications and facilitates field servicing.

- Model Designations

*K=Power Cord

*B=Power Cord, Receiver Tank

*C=Power Cord, Receiver Tank, Service Valves

*S=Power Cord, Service Valves

- Motor Designations

S*=Shaded Pole, Standard Efficiency

C*=Electronically Commutated, High Efficiency

- R404A units are also approved for R407A, R448A, R452A (R507, appication specific, not mass appoved)
- R134a units are also approved for 513A.

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AE3425YAA1ASS*	1/5	115	1	60	5.1	N/A	3/8	1/4	16.00	11.50	8.90	34.00
AE4430AAA1AXG*	1/4	115	1	60	6.7	N/A	3/8	3/8	16.00	11.50	8.90	56.00
AE4430YAA1AEC*	1/4	115	1	60	6.7	2.45	5/16	1/4	16.00	11.50	8.90	56.00
AE4430YAA1ASB*	1/4	115	1	60	6.7	1.83	5/16	1/4	16.00	11.50	8.90	38.00
AE4440AAA1ASC*	1/3	115	1	60	7.9	1.83	5/16	1/4	16.00	11.50	8.90	40.00
AE4440YAA1ASC*	1/3	115	1	60	7.9	1.83	3/8	1/4	16.00	11.50	8.90	40.00
AE4440YAA1ASK*	1/3	115	1	60	7.9	N/A	5/16	1/4	16.00	11.50	8.90	40.00
AE4440YAA1ASS*	1/3	115	1	60	7.9	N/A	3/8	1/4	16.00	11.50	8.90	40.00
AE4440ZAA1ASC*	1/3	115	1	60	8.5	1.83	5/16	1/4	16.00	11.50	8.90	40.00
AE4450EDS1BDC*	1/2	115	1	60	9.2	2.9	1/2	3/8	16.00	14.30	11.10	40.00
AE4450YAA1ADC*	1/2	115	1	60	10.5	2.9	1/2	3/8	16.00	11.50	11.10	40.60
AKA4457YAADC*	1/2	115	1	60	12.3	2.5	3/8	1/4	20.00	14.30	12.20	94.00
AKA4457YNADC*	1/2	208-230	1	60	6.3	2.5	5/8	3/8	20.00	14.30	12.20	94.00
AKA4472YAADC*	1/2	115	1	60	15.0	3.2	5/8	3/8	20.00	14.30	12.20	54.00

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AE2415ZAA1ASC

CELSEON, LOW TEMPERATURE

- Choose between a shaded pole fan motor for standard effciency or an electronically commutated (EC) type for higher efficiency.
- Molded fan shroud directs air flow across entire coil surface, optimizing system performance.
- Our compressors with quality, corrosion resistant components to deliver longer life and greater up-time.
- Sweat connections and electrical screw terminations simplify your installation, saving you time and money. Modular components provide quick and easy replacement.
- Compact design works well in space restricted applications and facilitates field servicing.

Model Designations
*K=Power Cord
*B=Power Cord, Receiver Tank
*C=Power Cord, Receiver Tank, Service Valves
*S=Power Cord, Service Valves
Motor Designations
S*=Shaded Pole, Standard Efficiency
C*=Electronically Commutated, High Efficiency
X*=X13 Motor
R404A units are also approved for R407A, R448A, R452A, (R507, application specific, not mass approved)
R134a units are also approved for R513A.

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AE2415ZAA1ASC*	1/3	115	1	60	6.8	1.83	5/16	1/4	16.00	11.50	8.90	40.00



AKA9435EAADC

CELSEON, MEDIUM TEMPERATURE

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	Capacity at 90 Deg F Ambient +20 (BTUH)	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AKA9435EAADC*	3510	1/2	115	1	60	9.5	3/8	1/4	15.00	14.00	11.70	52.00
AKA9435ENADC*	3510	1/3	208-230	1	60	5.0	1/2	3/8	15.00	14.00	11.70	52.00
AKA9442ZAADC*	4237	1/2	115	1	60	12.4	5/8	3/8	20.00	14.30	12.10	54.00
AKA9442ZNADC*	4237	1/2	208-230	1	60	5.8	5/8	3/8	20.00	14.30	12.10	54.00
AKA9446EAADC*	4600	1/2	115	1	60	11.9	5/8	3/8	20.00	14.30	12.10	76.00
AKA9446ENADC*	4600	1/2	208-230	1	60	5.8	5/8	3/8	20.00	14.30	12.10	54.00
AKA9461ENADC*	6100	3/4	208-230	1	60	7.3	5/8	3/8	24.00	17.50	13.40	67.00
AKA9463ZAADC*	6360	3/4	115	1	60	16.3	5/8	3/8	24.00	17.50	13.40	67.00
AKA9463ZNADC*	6360	3/4	208-230	1	60	9.0	5/8	3/8	24.00	17.50	13.40	67.00
AWA9514ZXNXM*	14053	1.75	208-230	1	60	16.7	7/8	3/8	19.50	33.48	19.50	121.00



AE2415ZAA1AGC

CELSEON, LOW TEMPERATURE

tecumseh

						Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AE2415ZAA1AGC*	1/3	115	1	60	6.8	5/16	1/4	19.00	9.70	10.30	43.00
AJ2423ZAA1CDC	1/2	115	1	60	11.1	5/8	3/8	22.00	17.00	14.00	42.00
AKA2430ZAADC*	3/4	115	1	60	9.1	3/8	3/8	24.00	17.60	13.40	64.00

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AIR COOLED CONDENSING UNIT, INDOOR, HERMETIC

LOW TEMPERATURE (1/8 TO 1 1/2 HP) R404A R407A R4448A R452A R507



AWA2448ZXDXC

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AWA2448ZXDXC*	1	208-230	1	60	12.0	6.3	5/8	3/8	24.00	17.80	15.40	119.00
AWA2464ZXDXC*	1 1/2	208-230	1	60	16.9	6.3	7/8	3/8	24.00	17.80	15.40	130.00

LOW TEMPERATURE (2 TO 4 HP) R404A R407A R448A R452A R507

These units are designed for use with R404A refrigerant.



AWA2479ZXDXC

tecumseh

							Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Phase	Hertz	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AWA2479ZXDXC*	2	208-230	1	60	17.1	9.8	7/8	3/8	24.00	19.40	16.20	119.00

WATER COOLED CONDENSING UNIT, INDOOR, HERMETIC

HIGH TEMPERATURE



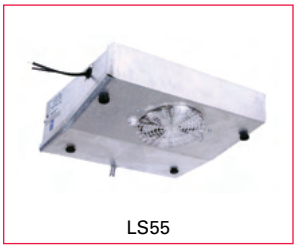
AKA9457EXDXW

tecumseh

					Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	MCA (Amps)	Receiver Cap. (Lbs)	Suction	Liquid	L	W	H	Ship Wgt (Lbs.)
AKA9457EXDXW*	1/2	208-240/1	5.4	2.7	1/2	3/8	21.40	14.00	10.50	67

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REACH-IN EVAPORATOR, AIR DEFROST



LS55

LO-SLOPE, MEDIUM TEMPERATURE

- Low silhouette design for ceiling mounting and maximum use of shelf area
- Low sloped bottom panel promotes highly efficient air distribution
- Aluminum fins and seamless copper tubing
- Thermally protected, permanently lubricated motors
- Moisture-proof wiring harness
- P suffix models have protective coil coating
- Voltage 115/1/60
- BTU @ 10°F T.D.
- Connection: 1/2" OD suction x 1/2" flare liquid

						Motor Data	Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	Suction	H	W	L	Ship Wgt (Lbs.)
LS55	550	115	1	60	125	1	1/2	5.00	14.00	10.00	9.00
LS135	1350	115	1	60	200	2	1/2	5.00	14.00	20.50	16.00
LS240	2400	115	1	60	300	1	1/2	6.63	16.50	24.00	23.00



MJ40

MIDJETTE, MEDIUM TEMPERATURE

- Compact unit for ceiling or wall mounting
- Full-hard temper aluminum fins and seamless copper tubing
- Front panel and drain pan are one piece for easy servicing
- Thermally protected, permanently lubricated motors
- Moisture-proof wiring harness
- Voltage 115/1/60
- Connection: 3/8" OD suction x 1/2" flare liquid
- BTU @ 10°F T.D.

						Motor Data	Connection Size (In.)	Dimensions (In.)			
Part No.	BTUH 25 Deg F at 10 Deg F	Voltage	Phase	Hertz	CFM	Qty	Suction	H	W	L	Ship Wgt (Lbs.)
MJ40	400	115	1	60	140	1	3/8	7.00	8.00	13.63	7.00
MJ120	1200	115	1	60	250	2	3/8	7.00	9.00	20.63	15.00



WALK-IN EVAPORATOR, SPECIAL APPLICATION



CTIH-35

WINE CABINET TOP INTERNAL HORIZONTAL EVAPORATOR

Small units designed for medium to large size humidity controlled spaces such as wine cabinets/ walls, fur cabinets and tobacco humidors.

CTIH Evaporators are designed to be installed horizontally near the top of a cabinet and have a 6" profile to minimize unit space and maximize storage space.

Can be used with R22, R134a, or R404a refrigerants. Chilled water models are available by special order.

- Very low noise
- Provides consistent humidity by maintaining a steady coil temperature, reducing the need for expensive temperature and humidity controls in most applications
- Constant pressure expansion valve standard
- Rust-proof aluminum housing with flat black powder coated finish. Other colors available.
- High performance staggered coils with copper tubing mechanically expanded into aluminum fins
- Each unit pressure tested to eliminate leaks.
- Factory wired for easy field installation
- Condensate pump to evacuate excess moisture
- Coil and drain pan coated with LRCCoat™ anticorrosion coating
- Capacities rated at 38°F suction temperature, 55° room temperature, 17°F TD

	Capacity					Dimensions (In.)			Connection Size (In.)		
Part No.	R22	R134a	R404A	Voltage	CFM	H	W	L	Suction	Liquid	Ship Wgt (Lbs)
CTIH-35*	3577.0	3538.0	3546.0	115	260	7.25	12.19	48.19	3/8	3/8	35.00



HS25EC

HIGH STATIC EC EVAPORATOR

High Static EC evaporators come standard with an energy-efficient motor that is Title 24 compliant. They are the perfect unit if you need a remote system. The HS-EC is made in a wide variety of capacities. HS-EC can be ducted up to 25 feet away. Made to control temperature and humidity for a variety of specialty products.

- 2" Thick Merv 8 Air Filter standard
- Chilled water coil option
- The unit comes standard with a universal AXV Valve and a Liquid Line Solenoid Valve for easy pump down installation
- Coil coated with a non-toxic water-based epoxy coating
- Standard Stainless Steel Drain with ? NPT fitting
- Use with refrigerants: R22, R134a, R404A, R448A
- Capacities rated at 38°F suction temperature, 55° room temperature, 17°F TD

	Capacity					Dimensions (In.)			Connection Size (In.)		
Part No.	R22	R134a	R404A	Voltage	CFM	H	W	L	Suction	Liquid	Ship Wgt (Lbs)
HS25EC	2117.0	2023.0	2087.0	115	220	17.25	29.50	17.75	3/8	3/8	60.00
HS31EC	4793.0	4471.0	4579.0	115	380	18.75	29.50	23.00	3/8	3/8	105.00
HS47EC	7635.0	6915.0	7389.0	115	490	23.00	30.50	23.00	5/8	3/8	120.00
HS66EC	8666.0	8080.0	8476.0	115	750	25.00	35.50	24.50	5/8	3/8	125.00
HS87EC	12310.0	11840.0	11900.0	115	810	25.00	35.50	24.50	5/8	3/8	135.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


LPA17-13Q

DOUBLE ENDED QUIET LOW VELOCITY EVAPORATOR

LRC's Low Profile (LPA-Q) Quiet Unit Coolers are powerful, whisper quiet units in a slim, low profile cabinet. LPA-Q coolers are designed for home or commercial walk-in tobacco, wine, or fur storage rooms or other acoustically sensitive areas. LPA-Q's efficient, low rpm motors and ultra quiet fan blades reduce noise compared to standard commercial units. The ultra-efficient motor(s) generate significantly less heat than a standard motor, reducing the cooling load in the room up to 50% over conventional units.

- Can be used with R22, R134a and R404a.
- LPA-Q units are simple to install, easy to maintain and will provide years of quiet, reliable service.
- Ideal for humidity sensitive and low noise applications
- Small cabinet maximizes available storage space
- Provides consistent room humidity by maintaining a steady coil temperature, reducing the need for expensive temperature and humidity controls in most applications
- Thermally protected motors Quiet, Low Velocity Cooler Air Defrost - 1,463 to 7,577 BTUH Capacity Applications - Small reach-ins, beverage coolers
- Expansion valve and liquid line solenoid valve standard
- High performance staggered coils, with tubing mechanically expanded into aluminum collared fins
- Units are pressure tested to eliminate leaks
- Rustproof all-aluminum cabinet. Flat black powder coated finish available.
- Factory wired for easy field installation
- Air defrosting coil requires no additional heater
- Coil and drain pan coated with LRCCoat™ anticorrosion coating
- Capacities rated at 38°F suction temperature, 55° room temperature, 17°F TD

	Capacity						Dimensions (In.)			Connection Size (In.)	
Part No.	R22	R134a	R404A	Voltage	CFM	Nb. of Fans	H	W	L	Suction	Ship Wgt (Lbs)
LPA17-13Q*	1834.0	1837.0	1809.0	115	220	1	4.75	20.75	14.25	3/8	20.00
LPA27-18Q*	2228.0	2309.0	2280.0	115	250	1	4.75	24.25	14.25	3/8	25.00
LPA27-23Q*	2983.0	2924.0	2963.0	115	275	1	4.75	31.75	14.25	1/2	30.00


RM25EC

RACK MOUNT, ENERGY EFFICIENT, LOW VELOCITY EVAPORATOR

LRC's Energy Efficient Rack Mount (RM-EC) Evaporators are designed for installation inside a wine rack or between two ceiling joists. RM-EC Evaporators quietly supplies refrigerated and humidity controlled air to medium and high temperature spaces, making them an ideal choice for small to medium size wine rooms.

RM units have multiple access doors that can be removed as needed for air intake and exhaust depending on how the unit is installed. RM-EC airflow can be adjusted through the unit to maintain room humidity within desired range.

- Can be used with R-22, R134a, R404a, or other refrigerants.
- Low noise design for minimum acoustical impact
- Compact design allows unit to be inconspicuously integrated into a wine room decor
- Energy efficient EC motors meet or exceed California energy standards
- High performance staggered coils, with copper tubing mechanically expanded into aluminum collared fins
- Provides consistent humidity by maintaining a steady coil temperature, reducing the need for expensive temperature and humidity controls in most applications
- Insulated rust-proof aluminum housing. Flat black powder coated finish available
- Thermally protected motors
- Each coil pressure tested to over 380 psig for maximum system integrity
- Factory wired for easy field installation
- Expansion and liquid line solenoid valve pre-installed
- rainpan made of non-corrosive material
- Coil and drain pan coated with LRCCoat™ anticorrosion coating
- Capacities rated at 38°F suction temperature, 55° room temperature, 17°F TD

	Capacity					Dimensions (In.)			Connection Size (In.)		
Part No.	R22	R134a	R404A	Voltage	CFM	H	W	L	Suction	Liquid	Ship Wgt (Lbs)
RM25EC*	2654.0	2572.0	2633.0	115	220	11.38	11.00	29.19	3/8	3/8	26.00
RM35EC*	3543.0	3228.0	3478.0	115	260	11.38	11.00	36.00	3/8	3/8	32.00
RM50EC*	4996.0	4550.0	4723.0	115	335	14.38	11.00	36.00	5/8	3/8	37.00
RM65EC*	6629.0	6500.0	6603.0	115	420	14.38	11.00	36.00	5/8	3/8	43.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR COOLED, CONDENSING UNIT, INDOOR, UNIT ENCLOSURE



ECO180

ECONOMY

- Economy model
- Includes weather hood instead of condenser grill
- Dimensions are inside measurements

RDM Products

	Dimensions (In.)			
Part No.	L	W	H	Ship Wgt (Lbs.)
ECO180	26.00	20.00	16.00	37.00
ECO200	26.00	24.50	18.00	48.00
ECO230	34.50	24.00	21.00	64.00
ECO240	28.50	37.00	22.50	87.00



TC100LH

DELUXE ENCLOSURE

Constructed of UL Listed 12, 14 and 20 gauge G90U hot dipped galvanized steel, and engineered and manufactured for maximum durability and corrosion protection. Shipped completely knocked down for ease of shipping. All units are shipped complete with easy assembly instructions with clearly labeled unit panels and all necessary hardware.

Kool Star

	Dimensions (In.)			
Part No.	L	W	H	Ship Wgt (Lbs.)
TC100LH	24.00	18.00	14.50	35.00
TC150LH	26.00	22.00	18.00	42.24
TC230LH	28.00	37.00	22.00	70.00



WATER COOLED CONDENSER

COAXIAL, HELICAL

- Water-source heat pump coils operate very effectively as either refrigerant condensers or refrigerant evaporators when transferring heat with water. This makes them an ideal choice for both water-source heat pump and water-cooled condenser applications
- Convoluted inner surface improves heat transfer efficiency and reduces fouling
- Copper inner tubes are recommended for fresh and cooling tower water applications while cupronickel is recommended for ground and sea water applications
- Approved by Underwriters Laboratories, Inc. (U.L.) and the Canadian Standards Association (C.S.A.) at maximum working pressures to 300 psig on the water side and 450 psig on the refrigerant side



COAX2051H

COAXIAL, HELICAL

- Spiral and trombone models available
- COAX copper tube, COCX cupronickel tube

		Dimensions (In.)			Refrigerant (In.)			Water (In.)			
Part No.	Nominal Tons	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
COAX2051H	1/2	1.88	6.00	14.50	3/8	3/8	IDS	1/2	1/2	ODS	5.00
COCX2051H	1/2	1.88	6.00	14.50	3/8	3/8	IDS	1/2	1/2	ODS	5.00
COAX2076H	3/4	6.00	6.63	9.94	3/8	3/8	IDS	1/2	1/2	ODS	7.40
COAX2101H	1	6.94	6.63	9.94	3/8	3/8	IDS	1/2	1/2	ODS	8.41
COCX2101H	1	6.94	6.63	9.94	3/8	3/8	IDS	1/2	1/2	ODS	7.00
COAX2151H	1 1/2	6.88	13.94	13.94	3/8	3/8	IDS	5/8	5/8	ODS	4.50
COAX2201J	2	3.88	12.94	12.94	3/8	3/8	IDS	5/8	5/8	ODS	15.05
COAX2251J	2 1/2	5.13	10.38	12.44	1/2	1/2	IDS	3/4	3/4	ODS	16.00
COAX2301J	3	5.06	13.88	13.88	5/8	5/8	IDS	7/8	7/8	ODS	20.00
COAX2401J	4	4.94	14.13	16.25	5/8	5/8	IDS	7/8	7/8	ODS	30.00
COAX2501J	5	6.00	15.38	17.00	3/4	3/4	IDS	1 1/8	1 1/8	ODS	36.00



COCX2200S

COAXIAL CUPRONICKEL TUBE, SPIRAL

- Less mounting brackets

		Dimensions (In.)			Refrigerant (In.)			Water (In.)			
Part No.	Nominal Tons	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
COCX2200S	2	2.38	11.50	14.38	3/8	3/8	IDS	5/8	5/8	ODS	6.70
COCX2250S	2 1/2	2.69	13.25	16.44	1/2	1/2	IDS	3/4	3/4	ODS	16.00
COCX2300S	3	2.88	13.56	15.63	5/8	5/8	IDS	7/8	7/8	ODS	9.36
COCX2500S	5	3.38	17.19	19.63	5/8	5/8	IDS	7/8	7/8	ODS	36.00
COCX2750S	7 1/2	3.88	21.13	22.50	3/4	3/4	IDS	1 1/8	1 1/8	ODS	60.00

WATER COOLED CONDENSER

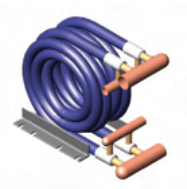
COAXIAL, COPPER TUBE, SPIRAL



COAX2100S

		Dimensions (In.)			Refrigerant (In.)			Water (In.)			
Part No.	Nominal Tons	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
COAX2100S	1	2.13	9.38	11.63	3/8	3/8	IDS	1/2	1/2	ODS	7.00

COAXIAL, MULTI COIL, CUPRONICKEL TUBE, SPIRAL

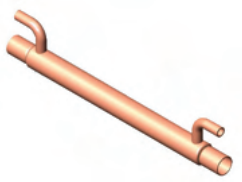


COCX3010S

		Dimensions (In.)			Refrigerant (In.)			Water (In.)			
Part No.	Nominal Tons	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
COCX3010S	10	17.38	11.25	21.56	1 3/8	1 3/8	IDS	2 1/8	2 1/8	ODS	137.00

AIR COOLED CONDENSER, HEAT EXCHANGER

SMALL CAPACITY



HXR25

		Connection Size (In.)			Dimensions (In.)		
Part No.	Nominal HP	Liquid	Vapor	Type	L	W	Ship Wgt (Lbs.)
HXR25	1/2	1/4	1/2	IDS	11.50	0.88	2.06
HXR50	1	3/8	5/8	IDS	12.75	0.88	0.15
HXR75	1.5	3/8	7/8	IDS	13.63	1.13	0.20
HXR100	2	3/8	1 1/8	IDS	14.13	1.38	2.00
HXR150	3	1/2	1 1/8	IDS	14.13	1.38	1.00
HXR250	5	5/8	1 3/8	IDS	14.25	1.63	3.00
HXR350	7.5	5/8	1 5/8	IDS	16.25	1.63	2.00
HXR500	10	7/8	2 1/8	IDS	17.25	2.63	4.00

WATER COOLED CONDENSER


HSE10MP

SHELL AND TUBE HORIZONTAL, SUPER EFFICIENT

- Suitable for use with R22 and R410A
- Horizontal, cleanable shell and tube design
- New high tech enhanced copper tube geometry
- Smaller foot-print equals less space requirement
- Removable, epoxy coated, water plates to facilitate cleaning
- Epoxy coated tube sheets to prevent pitting caused by galvanic action
- Custom models available to 800 nominal HP
- Maximum working pressures: HSE2MP-HSE125MP: shell side 600 psi; tube side 150 psi
- Nominal HP ratings per ARI Standard 450-99, clean

			Dimensions (In.)				Refrigerant (In.)			Water (In.)			
Part No.	Nominal HP	Pumpdown (Lbs.)	Dia.	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
HSE10MP[1]	10	20.0	6.63	8.10	6.60	33.40	1 3/8	7/8	IDS	1 1/4 fpt	1 1/4 fpt	FPT	93.00
HSE15MP[2]	15	35.0	8.63	10.60	8.60	33.40	1 5/8	1 1/8	IDS	2 fpt	2 fpt	FPT	129.00

[1] Gaskets; Front: GASKE3170, Rear GASKE3718 [2] Gaskets; Front: GASKE445, Rear GASKE247


MSE750Z

MARINE CONDENSER

- Marine service
- Heavy duty, horizontal, shell and tube design
- Epoxy coated solid cupronickel tube sheets to prevent pitting caused by galvanic action
- Removable solid cupronickel or brass water plates to facilitate cleaning
- All 90/10, cupronickel, heavy wall, straight tube water channels
- Sacrificial zinc anode
- Dual refrigerant outlets, provides liquid seal in heavy seas
- Maximum working pressures: shell side 400 psi; tube side 150 psi
- Due to the high working pressures of R410A. any condenser product must be customized to conform to ASME construction. Please contact branch/customer service for more information.
- Nominal HP: clean/fouled per ARI standard 450-99 (ffc of 0.00025)

			Dimensions (In.)				Refrigerant (In.)			Water (In.)			
Part No.	Nominal HP	Pumpdown (Lbs.)	Dia.	H	W	L	Inlet	Outlet	Type	Inlet	Outlet	Type	Ship Wgt (Lbs.)
MSE750Z	9.5/6.7	24.0	6.63	8.60	6.60	34.30	1 3/8	7/8	IDS	1 1/4	1 1/4	FPT	107.00

LIQUID RECEIVER


UV30

UPRIGHT

- Due to the high working pressures of R410A. any receiver must be customized to conform to ASME construction. Please contact branch/customer service for more information
- Working pressure: 450 psi
  Pumpdowns are calculated at 80% of receiver volume, R22
  For other refrigerants multiply listed value by factor below
  R12 x 1.10
  R134a x 1.01
  R404A x 0.89
  R507 x 0.88

	Dimensions (In.)			Connection			
Part No.	L	H	Pumpdown (Lbs.)	Inlet	Outlet	Type	Ship Wgt (Lbs.)
UV30	10.60	18.00	29.0	1 RL - 1/2	1 RL - 1/2	IDS	40.00

LIQUID RECEIVER



RBV36105

HORIZONTAL, BRACKET AND VALVES

- Due to the high working pressures of R410A. any receiver must be customized to conform to ASME construction. Please contact branch/customer service for more information
- Working pressure: 450 psi
- Ships with bracket and valves
- Pumpdown calculated for R22, 80% volume, 90°F liquid
  For other refrigerants multiply listed value by factor below
  R12 x 1.10
  R134a x 1.01
  R404A x 0.89
  R507 x 0.88

Standard Refrigeration LLC

	Dimensions (In.)			Connection			
Part No.	L	H	Pumpdown (Lbs.)	Inlet	Outlet	Type	Ship Wgt (Lbs.)
RBV36105	36.00	11.40	94.0	1 1/4 RL - 1 1/8	1 1/4 RL - 1 1/8	IDS	117.00



WATER COOLED CONDENSER

COAXIAL REFRIGERATION COIL, SPIRAL



C660501

Westermeyer Industries Inc.

			Dimensions (In.)			Refrigerant (In.)		Water (In.)		
Part No.	Type	Nominal Tons	H	W	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
C660501	Spiral	2	7.38	13.25	14.50	1/2	1/2	3/4	3/4	25.00
C660502	Spiral, Cupronickel Inner Tube	2	7.38	13.25	14.50	1/2	1/2	3/4	3/4	25.00
C660601	Spiral	2 1/2	7.38	13.25	15.00	1/2	1/2	3/4	3/4	31.00
C660602	Spiral, Cupronickel Inner Tube	2 1/2	7.38	13.25	15.00	1/2	1/2	3/4	3/4	31.00
C660701	Spiral	3	7.88	14.88	15.88	5/8	5/8	7/8	7/8	35.00
C660702	Spiral, Cupronickel Inner Tube	3	7.88	14.88	15.88	5/8	5/8	7/8	7/8	35.00
C660801	Spiral	3 1/2	7.88	15.38	17.25	5/8	5/8	8/9	8/9	37.00
C660802	Spiral, Cupronickel Inner Tube	3 1/2	7.88	15.38	17.25	5/8	5/8	8/9	8/9	37.00
C660901	Spiral	4	8.88	18.13	19.00	5/8	5/8	1 1/8	1 1/8	55.00
C660902	Spiral, Cupronickel Inner Tube	4	8.88	18.13	19.00	5/8	5/8	1 1/8	1 1/8	55.00
C661001	Spiral	5	8.88	18.38	19.75	5/8	5/8	1 1/8	1 1/8	59.00
C661002	Spiral, Cupronickel Inner Tube	5	8.88	18.38	19.75	5/8	5/8	1 1/8	1 1/8	59.00
C661101	Spiral	6	10.88	16.75	19.13	8/9	8/9	1 1/8	1 1/8	63.00
C661102	Spiral, Cupronickel Inner Tube	6	10.88	16.75	19.13	8/9	8/9	1 1/8	1 1/8	63.00
C661201	Spiral	7	10.88	19.50	19.50	8/9	8/9	1 1/8	1 1/8	75.00
C661202	Spiral, Cupronickel Inner Tube	7	10.88	19.50	19.50	8/9	8/9	1 1/8	1 1/8	75.00

COAXIAL REFRIGERATION COIL, HELICAL



C660101

Westermeyer Industries Inc.

			Dimensions (In.)			Refrigerant (In.)		Water (In.)		
Part No.	Type	Nominal Tons	H	W	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
C660101	Helical, Right Hand	1/2	6.38	7.38	9.75	3/8	3/8	5/8	5/8	8.00
C660102	Helical, Right Hand, Cupronickel Inner Tube	1/2	6.38	7.38	9.75	3/8	3/8	5/8	5/8	8.00
C660103	Helical, Left Hand	1/2	6.38	7.38	9.75	3/8	3/8	5/8	5/8	8.00
C660104	Helical, Left Hand, Cupronickel Inner Tube	1/2	6.38	7.38	9.75	3/8	3/8	5/8	5/8	8.00
C660201	Helical, Right Hand	3/4	7.38	7.38	9.75	3/8	3/8	5/8	5/8	9.00
C660202	Helical, Right Hand, Cupronickel Inner Tube	3/4	7.38	7.38	9.75	3/8	3/8	5/8	5/8	9.00
C660203	Helical, Left Hand	3/4	7.38	7.38	9.75	3/8	3/8	5/8	5/8	9.00
C660204	Helical, Left Hand, Cupronickel Inner Tube	3/4	7.38	7.38	9.75	3/8	3/8	5/8	5/8	9.00
C660301	Helical, Right Hand	1	8.38	7.38	9.75	3/8	3/8	5/8	5/8	12.00
C660302	Helical, Right Hand, Cupronickel Inner Tube	1	8.38	7.38	9.75	3/8	3/8	5/8	5/8	12.00
C660303	Helical, Left Hand	1	8.38	7.38	9.75	3/8	3/8	5/8	5/8	12.00
C660304	Helical, Left Hand, Cupronickel Inner Tube	1	8.38	7.38	9.75	3/8	3/8	5/8	5/8	12.00
C660401	Helical, Right Hand	1 1/2	7.00	10.50	12.50	1/2	1/2	3/4	3/4	16.00
C660402	Helical, Right Hand, Cupronickel Inner Tube	1 1/2	7.00	10.50	12.50	1/2	1/2	3/4	3/4	16.00
C660403	Helical, Left Hand	1 1/2	7.00	10.50	12.50	1/2	1/2	3/4	3/4	16.00
C660404	Helical, Left Hand, Cupronickel Inner Tube	1 1/2	7.00	10.50	12.50	1/2	1/2	3/4	3/4	16.00

WATER COOLED CONDENSER

HEC CONDENSER, LOW PRESSURE



HEC2

Westermeyer Industries Inc.

				Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	Nominal HP	Holding Capacity (Lbs.)	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HEC2	2	2.5	11.0	5.00	28.00	5/8	1/2	3/4	3/4	36.00
HEC3	3	3.9	15.0	6.00	28.00	7/8	5/8	3/8	3/8	48.00
HEC5	5	8.28	19.0	6.63	28.00	1 1/8	5/8	1 1/4	1 1/4	66.00
HEC7	7	8.40	22.0	6.63	33.50	1 3/8	7/8	1 1/4	1 1/4	96.00
HEC10	10	11.30	20.0	6.63	33.50	1 3/8	7/8	1 1/4	1 1/4	89.00
HEC15	15	17.55	37.0	8.63	33.50	1 5/8	1 1/8	2	2	123.00
HEC20	20	32.87	60.0	8.63	51.50	1 5/8	1 1/8	2	2	184.00
HEC25	25	34.21	59.0	8.63	51.50	2 1/8	1 3/8	2	2	192.00
HEC30	30	41.50	0.0	10.75	53.00	2 1/8	1 3/8	2 1/2	2 1/2	291.00
HEC40	40	48.20	25.0	10.75	65.00	2 1/8	1 3/8	3	3	348.00
HEC50	50	63.47	18.0	10.75	65.00	2 5/8	1 5/8	3	3	355.00
HEC60	60	82.02	76.0	12.75	66.75	2 5/8	1 5/8	4	4	461.00
HEC70	70	94.85	66.0	12.75	66.88	3 1/8	2 1/8	4	4	480.00
HEC80	80	109.98	56.0	12.75	66.88	3 1/8	2 1/8	4	4	518.00

HEC CONDENSER, HIGH PRESSURE



HECH2

Westermeyer Industries Inc.

				Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	Nominal HP	Holding Capacity (Lbs.)	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HECH2	2	2.5	11.0	5.00	28.00	5/8	1/2	3/4	3/4	36.00
HECH3	3	3.9	13.0	6.00	28.00	7/8	5/8	3/8	3/8	48.00
HECH5	5	8.61	15.0	6.63	28.00	1 1/8	5/8	1	1	66.00
HECH7	7	8.74	19.0	6.63	33.50	1 3/8	7/8	1 1/4	1 1/4	96.00
HECH10	10	11.75	16.0	6.63	33.50	1 3/8	7/8	1 1/4	1 1/4	89.00
HECH15	15	18.25	32.0	8.63	33.50	1 5/8	1 1/8	2	2	123.00
HECH20	20	34.18	53.0	8.63	51.50	1 5/8	1 1/8	2	2	184.00
HECH25	25	35.58	51.0	8.63	51.50	2 1/8	1 3/8	2	2	192.00
HECH30	30	43.16	85.0	10.75	53.00	2 1/8	1 3/8	2 1/2	2 1/2	291.00
HECH40	40	50.13	7.0	10.75	65.00	2 1/8	1 3/8	3	3	348.00
HECH50	50	66.01	0.0	10.75	65.00	2 5/8	1 5/8	3	3	355.00
HECH60	60	85.30	65.0	12.75	66.75	2 5/8	1 5/8	4	4	461.00



HEM100Z

MARINE CONDENSER

This new line of HEM marine condensers are high capacity and cleanable. The enhanced cupronickel tubing provides extra heat transfer surface, thereby reducing the overall size of the condenser. All models come with silicon bronze hardware & a sacrificial zinc anode.

- Maximum working pressure refrigerant: 400 psig
- Maximum working pressure fluid: 150 psig
- Holding Capacity forn R404A

Westermeyer Industries Inc.

				Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	Nominal HP	Holding Capacity (Lbs.)	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HEM100Z	1	1.30	14.0	6.00	21.63	5/8	1/2	1/2	1/2	35.00
HEM200Z	2	2.6	12.0	6.00	21.63	7/8	5/8	1/2	1/2	49.00
HEM300Z	3	4.6	13.0	6.63	21.75	7/8	5/8	3/4	3/4	58.00
HEM500Z	5	6	11.0	6.63	21.75	1 1/8	5/8	3/4	3/4	77.00
HEM750Z	7 1/2	9.5	19.0	6.63	33.25	1 3/8	7/8	1 1/4	1 1/4	107.00
HEM1005Z	10	11.7	23.0	6.63	40.25	1 3/8	7/8	1 1/4	1 1/4	121.00
HEM1500Z	15	19.9	41.0	8.63	40.25	1 5/8	1 1/8	2	2	181.00
HEM2005Z	20	26.7	73.0	8.63	64.50	2 1/8	1 1/8	2	2	254.00
HEM2505Z	25	33.1	66.0	8.63	64.50	2 1/8	1 3/8	2	2	265.00
HEM3006Z	30	39.7	83.0	8.63	76.50	2 5/8	1 3/8	2 1/2	2 1/2	286.00
HEM3305Z	35	44.4	14.0	10.75	65.00	2 5/8	1 3/8	2 1/2	2 1/2	338.00
HEM4005Z	40	45.8	10.0	10.75	65.00	2 5/8	1 3/8	2 1/2	2 1/2	343.00
HEM4505Z	45	57.7	37.0	10.75	77.00	2 5/8	1 5/8	2 1/2	2 1/2	388.00
HEM5005Z	50	59.6	33.0	10.75	77.00	2 5/8	1 5/8	2 1/2	2 1/2	394.00
HEM6505Z	65	71	25.0	12.75	78.75	3 1/8	2 1/8	4	4	517.00
HEM7505Z	75	84.8	15.0	12.75	78.75	3 1/8	2 1/8	4	4	533.00
HEM100HPZ	100	132.2	58.0	12.75	133.50	3 1/8	2 1/8	5	5	1133.00
HEM120HPZ	120	137.2	44.0	12.75	133.50	3 5/8	2 1/8	5	5	1158.00



HEMH500Z

MARINE CONDENSER - R410A

Marine-grade condensers are high-capacity and cleanable. The water side is entirely constructed with 90/10 cupronickel, including the heads, with enhanced tubing providing extra heat transfer surface, reducing the overall size of the condenser. All marine models come with a sacrificial zinc anode and undergo a two-stage anti-corrosive powder coating process.

Westermeyer Industries Inc.

		Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HEMH500Z	5	6.63	21.75	1.13	0.63	0.75	0.75	77.00
HEMH750Z	7.5	6.63	33.25	1.38	0.88	1.25	1.25	107.00
HEMH1005Z	10	6.63	40.25	1.38	0.88	1.25	1.25	121.00
HEMH1500Z	15	8.63	40.25	1.63	1.13	2.00	2.00	181.00
HEMH2505Z	25	8.63	64.50	2.13	1.38	2.00	2.00	265.00

WATER COOLED CONDENSER



HPC200A

HPC CONDENSER, LOW PRESSURE, HIGH PUMPDOWN

The enhanced copper tubing provides extra heat transfer surface, thereby reducing the overall size of the condenser. Both the tube sheet and removable water plates have been epoxy coated for increased corrosion protection.

- Maximum working pressure refrigerant: 450 psig
- Maximum working pressure fluid: 150 psig
- Holding capacity for R404A

Westermeyer Industries Inc.

				Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	Nominal HP	Holding Capacity (Lbs.)	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HPC200A	2	3.50	13.0	6.63	22.00	7/8	5/8	3/4	3/4	52.00
HPC300A	3	5.6	19.0	6.63	28.63	7/8	5/8	3/4	3/4	71.00
HPC500A	5	7.2	33.0	8.63	28.00	1 1/8	5/8	1 1/4	1 1/4	90.00
HPC750A	7 1/2	10.8	30.0	8.63	27.57	1 3/8	7/8	1 1/4	1 1/4	109.00
HPC755A	7 1/2	9.7	53.0	8.63	40.00	1 3/8	7/8	1 1/4	1 1/4	144.00
HPC1000A	10	16	58.0	8.63	46.44	1 3/8	7/8	1 1/4	1 1/4	159.00
HPC1500A	15	24.5	65.0	8.63	52.00	1 3/8	1 1/8	1 1/2	1 1/2	180.00
HPC1555A	15	24.5	96.0	10.75	54.00	1 5/8	1 1/8	1 1/2	1 1/2	272.00
HPC2005A	20	30	39.0	10.75	66.00	2 1/8	1 1/8	2	2	313.00
HPC2026A	20	30	9.0	12.75	66.00	2 1/8	1 1/8	2	2	428.00
HPC2505A	25	37.5	38.0	10.75	66.00	2 1/8	1 3/8	2 1/2	2 1/2	345.00
HPC2527A	25	37.5	42.0	12.75	66.00	2 1/8	1 3/8	2 1/2	2 1/2	413.00
HPC3005A	30	45	32.0	10.75	66.00	2 5/8	1 3/8	2 1/2	2 1/2	350.00
HPC3028A	30	45	1.0	12.75	66.00	2 5/8	1 3/8	2 1/2	2 1/2	448.00
HPC3505A	35	50	3.0	12.75	66.00	2 5/8	1 3/8	2 1/2	2 1/2	400.00
HPC4005A	40	55	1.0	14.00	67.00	2 5/8	1 3/8	3	3	489.00
HPC4505A	45	65	35.0	14.00	67.00	2 5/8	1 5/8	3	3	519.00
HPC5005A	50	70	37.0	14.00	67.00	2 5/8	1 5/8	4	4	527.00
HPC5505A	55	75	28.0	14.00	67.00	3 1/8	1 5/8	4	4	521.00
HPC6005A	60	82.5	23.0	14.00	67.00	3 1/8	2 1/8	4	4	542.00
HPC7005A	70	97.6	15.0	14.00	67.00	3 1/8	2 1/8	4	4	548.00
HPC8005A	80	110.1	9.0	14.00	67.00	3 1/8	2 1/8	4	4	596.00



HPCH200A

HPC CONDENSER, LOW PRESSURE, HIGH PUMPDOWN - R410A MODEL

Designed for high-pumpdown applications. The enhanced copper tubing provides extra heat transfer surface, reducing the overall size of the condenser. Both the tube sheet and removable water plates have been epoxy coated for increased corrosion protection.

Westermeyer Industries Inc.

		Dimensions (In.)		Refrigerant (In.)		Water (In.)		
Part No.	Nominal Tons	H	L	Inlet	Outlet	Inlet	Outlet	Ship Wgt (Lbs.)
HPCH200A	2	6.63	22.00	0.88	0.63	0.75	0.75	52.00
HPCH2505A	25	10.75	66.00	2.13	1.38	1.50	1.50	345.00
HPCH300A	3	6.63	28.63	0.88	0.63	0.75	0.75	71.00
HPCH500A	5	8.63	28.00	1.13	0.63	1.25	1.25	90.00
HPCH750A	7.5	8.63	27.57	1.38	0.88	1.25	1.25	109.00
HPCH755A	7.5	8.63	40.00	1.38	0.88	1.25	1.25	144.00
HPCH1000A	10	8.63	46.44	1.38	0.88	1.25	1.25	159.00
HPCH1500A	15	8.63	52.00	1.38	1.13	1.50	1.50	180.00
HPCH1555A	15	10.75	54.00	1.63	1.13	1.50	1.50	272.00
HPCH2005A	20	10.75	66.00	2.13	1.13	2.00	2.00	313.00
HPCH3005A	30	10.75	66.00	2.63	1.38	1.50	1.50	350.00

LIQUID RECEIVER



R301

UPRIGHT, LOW PRESSURE, UL

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Removable swivel valves
- Includes Rotolock valve
- R6-03 supplied with three mounting legs instead of mounting stud.
- Maximum Working Pressure: 450 psig

All receiver pump-down capacities are calculated at 90% of receiver volume and 90°F. For R-134A, use the R-22 capacity. For R-404A, multiply R-22 capacity by .90.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	H	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
R301	3.00	10.00	2.5	1/4" Flare Elbow	1/4" Flare Valve	5.00
R501	5.00	10.00	6.5	3/8" Flare Elbow	3/8" Flare Valve	10.00
R601	6.00	12.00	11.5	3/8" Flare Elbow	3/8" Flare Valve	14.00
R602	6.00	18.00	17.25	1/2" Flare Elbow	1/2" Flare Valve	18.00
R603	6.00	24.00	23.25	1/2" Flare Elbow	1/2" Flare Valve	24.00

LIQUID RECEIVER



R302

UPRIGHT, HIGH PRESSURE, UL

- Welded design for higher strength
- Nitrogen tested for cleanliness
- Includes fusable plug
- Rotolock valve NOT included

All receiver pump-down capacities are calculated at 90% of receiver volume and 90°F for R-410A. For CO2 at +20°F, multiply R-410A capacity by 0.80.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	H	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
R302	3.00	10.00	2.3	1/2	1/2	6.00
R402	4.00	10.00	3.8	1/2	1/2	10.00
R502	5.00	10.00	5.8	5/8	5/8	14.00
R604	6.00	12.00	10.0	5/8	5/8	21.00



RV615

UPRIGHT, LOW PRESSURE, ASME

Pump-down capacities shown are calculated based on 90% at 90°F for R-22.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	H	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
RV615	6.63	15.00	16.0	5/8	5/8	22.00
RV816	8.63	16.00	29.0	5/8	5/8	26.00
RV1018	10.75	18.00	49.0	1 1/8	1 1/8	55.00
RV1224	12.75	24.00	97.0	1 1/8	1 1/8	82.00



RH636

HORIZONTAL, LOW PRESSURE, ASME

Pump-down capacities shown are calculated based on 90% at 90°F for R-22.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	L	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
RH636	6.63	36.00	41.0	7/8	7/8	40.00
RH848	8.63	48.00	94.0	1 1/8	1 1/8	74.00
RH1036	10.75	36.00	5.0	1 3/8	1 3/8	96.00
RH1048	10.75	48.00	42.0	1 3/8	1 3/8	124.00
RH1060	10.75	60.00	80.0	1 3/8	1 3/8	152.00
RH1072	10.75	72.00	17.0	1 3/8	1 3/8	181.00



RVH615

UPRIGHT, HIGH PRESSURE, ASME

Pump-down capacities shown are calculated based on 90% at 90°F for R-410a.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	H	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
RVH615	6.63	15.00	14.0	5/8	5/8	25.00
RVH1018	10.75	18.00	41.0	1 1/8	1 1/8	66.00



RHH836

HORIZONTAL, HIGH PRESSURE, ASME

Pump-down capacities shown are calculated based on 90% at 90°F for R-410a.

Westermeyer Industries Inc.

	Dimensions (In.)			Connection		
Part No.	Dia.	L	Holding Cap. (Lbs.)	Inlet	Outlet	Ship Wgt (Lbs.)
RHH836	6.63	36.00	60.0	1 1/8	1 1/8	50.00

BARREL BRACKET

UNIVERSAL HINGED



6B

		Base Dimensions (In.)	
Part No.	Inside Dia. (In.)	L	W
6B	6 5/8	7.0	2 9/16

COMPRESSOR/CONDENSER

- Base width 3”



BR1

		Base Dimensions (In.)	
Part No.	Inside Dia. (In.)	L	W
BR1	6	14.0	3

BRACKETS



BK06A

Mounting brackets can be used to install horizontal receivers and condensers. All bracket dimenstion including the mounting hole locations are shown in the table below. Brackets are powder painted black.

		Base Dimensions (In.)	
Part No.	Inside Dia. (In.)	L	W
BK06A	5.50	7.0	2.63
BK06B	5.50	7.0	2.63
BK08A	8.50	9.0	2.63
BK10B	10.50	11.0	2.63
BK12B	12.32	13.0	3.13

ROTALOCK® ADAPTER

REPLACEMENT CAPS FOR ROTOLOCK & SERVICE VALVES



SERCAP06B

Part No.	Rotolock Size, TPI (In.)
SERCAP06B*	1-3/8 - 12
SERCAP20B*	11/16 - 20
SESCAPCB4510*	1/4 SAE
SERCAP01P	3/4 - 16
SERCAP02P	3/4 - 16
SERCAP03P	1 - 14
SERCAP04B*	1-1/16 - 18
SERCAPKIT*	ACCT
SERCAP04P	1-1/16 - 18
SERCAP08P	1-5/8 - 12
SERCAP53P	M27 x 2
SERCAP01B*	3/4 - 16
SERCAP02B*	3/4 - 16
SERCAP02S	3/4 - 16
SERCAP03S	1 - 14
SERCAP54P	M36 x 1.5
SERCAP01S	3/4 - 16
SERCAP08B*	1-5/8 - 12
SERCAP06P	1-3/8 - 12
SERCAP10S	7/8 - 18
SERCAP22P	M22 x 1.5
SERCAP53A	M27 x 2
SERCAP03B*	1 - 14
SERCAP24P	M24 x 2

MALE ROTALOCK® X SWEAT

Sweat connection machined to the next greater size



BA03X06

		Connection Size (In.)		
Part No.	Rotolock Size, TPI (In.)	IDS	ODS	Type
BA03X06	3/4 - 16	3/8	1/2	IDS
BA03X08	1 - 14	3/8	1/2	IDS
BA04X08	1 - 14	1/2	5/8	IDS
BA05X08	1 - 14	5/8	7/8	IDS
BA07X10	1 1/4 - 12	7/8	1 1/8	IDS
BA09X10	1 1/4 - 12	1 1/8	1 3/8	IDS
BA09X14	1 3/4 - 12	1 1/8	1 3/8	IDS
BA11X14	1 3/4 - 12	1 3/8	1 5/8	IDS
AA07	3/4 - 16	3/4	-	IDS

Continued on next page

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		Connection Size (In.)		
Part No.	Rotolock Size, TPI (In.)	IDS	ODS	Type
BA05X10*	1-1/4 - 12	5/8	7/8	IDS
BA07X04P	1/2 MPT	7/8	-	IDS

FEMALE ROTALOCK® X SWEAT



SA03

		Connection Size (In.)
Part No.	Rotolock Size, TPI (In.)	IDS
SA03	3/4 - 16	3/8
SA04	1 - 14	1/2
SA05	1 - 14	5/8
SA07	1 1/4 - 12	7/8
SA09	1 1/4 - 12	1 1/8
SA11	1 3/4 - 12	1 3/8

ROTALOCK® VALVE

HORIZONTAL

- Teflon seal furnished



H03FT

	Connection			
Part No.	Size (In.)	Type	Rotolock Size, TPI (In.)	Gauge Port Location
H03FT	3/8	MFL	3/4 - 16	Top
H05ST	5/8	IDS	1 - 14	Top
H07SL	7/8	IDS	1 1/4 - 12	Left
H11ST	1 3/8	IDS	1 3/4 - 12	Top

VERTICAL

- Teflon seal furnished



V05ST

	Connection			
Part No.	Size (In.)	Type	Rotolock Size, TPI (In.)	Gauge Port Location
V05ST	5/8	IDS	1 - 14	Opposite
V09ST	1 1/8	IDS	1 1/4 - 12	Opposite
H04ST	1/2	IDS	1 - 14	Top
V05FL	5/8	SAE	1 - 14	Left
V07SR	7/8	IDS	1-1/4 - 12	Right

ROTALOCK®



24590

TEFLON SEAL

- 1/16" thickness

	Diameter (In.)		
Part No.	Inside	Outside	Use with Rotalock Thread
24590	7/16	9/16	3/4 - 16
24591	5/8	3/4	1 - 14
24592	7/8	1	1 1/4 - 12
24593	1 3/8	1 1/2	1 3/4 - 12
SETSKIT	-	-	ASST

SHUT OFF VALVE

ROTOLOCK X IDS, 90°

- Female rotolock thread



1RX12S

		Connection	
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type
1RX12S	1 - 14	1/2	ODS
1RX58S	1 - 14	5/8	ODS
114RX58S	1 1/4 - 12	5/8	ODS
114RX34S	1 1/4 - 12	3/4	ODS
114RX78S	1 1/4 - 12	7/8	ODS
114RX118S	1 1/4 - 12	1 1/8	ODS
134RX118S	1 3/4 - 12	1 1/8	ODS
134RX138S	1 3/4 - 12	1 3/8	ODS
134RX158S	1 3/4 - 12	1 5/8	ODS

ROTOLOCK X MFL, 90°

- Female rotolock thread



1RX12FL

		Connection	
Part No.	Rotolock Size, TPI (In.)	Size (In.)	Type
1RX12FL	1 - 14	1/2	MFL
1RX58FL	1 - 14	5/8	MFL

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NOTES

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Valves — **Page**
- TXV ... 198-205
- Balanced Port TXV ... 205-213
- Cartridge Style TXV ... 213-220
- Charge Element ... 220-221
- Electronic Expansion Valve ... 221-223
- Refrigerant Flow Control ... 223
- Refrigerant Distributor ... 223-224
- Solenoid Valve, Sporlan ... 224-229
- Solenoid Valve, Emerson ... 229-232
- Solenoid Valve, Danfoss ... 232-233
- Solenoid Magnet ... 233
- Solenoid Repair Kit ... 233-234
- Discharge Bypass ... 235-236
- Distributor Accessories ... 236
- Pressure Regulator ... 236-241
- Regulator Repair Kit ... 241-242
- Refrigerant/Ammonia Regulator ... 242-243
- FLO-CON Regulator ... 243-245
- Secondary Coolant Solenoid ... 245
- Accessories ... 245-246
- Refrigerant Ball Valve ... 247-249
- Diaphragm Packless Valve ... 249-250
- Packed Angle Valve ... 250-251
- Packed Angle Receiver Valve ... 251
- Swivel Angle Valve ... 251
- Pressure Relief Valve ... 252-253
- Dual Shut Off ... 253
- Rupture Disc Assembly ... 253
- Check Valve ... 253-255
- Ammonia/Refrigerant Shutoff ... 255
- Ammonia/Refrigerant Relief ... 255
- Ammonia/Refrigerant Flange ... 255

Driers — **Page**
- Sealed ... 256-264
- Shell ... 264-267
- Strainer ... 267
- Spun Copper ... 267-268
- Accessories ... 268-269

Moisture Indicators
- Moisture Indicators ... 270-273
- Sight Glass ... 273

Acid Test
- Acid Test ... 274

Oil Control
- Oil Control ... 275-278
- Oil Separator ... 278-282
- Repair Parts ... 282

Refrigerant Control
- Suction Accumulator ... 283-284
- Refrigerant Receiver ... 285
- Noise Abatement ... 285

Water Valves
- Float Valve ... 286-287

Water Pumps
- Automatic Condensate Pump ... 288-292
- Transfer Pump ... 293
- Pump Accessories ... 293
- Drain Pan Accessories ... 294-295
- Heavy Duty Automatic Pump ... 295
- Submersible Pump ... 295

Miscellaneous
- Drain Pan ... 296
- Gaskets ... 296

TXV


AFA1/4FC

AFAF SERIES

- Stainless steel power element prevents corrosion and valve failure
- External superheat adjustment
- Replaceable inlet strainer
- SAE connections only
- Wrench flats on inlet and outlet
- Maximum working pressure: 700 psig
- Refrigerant R-12

COPELAND

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
AFA1/4FC*	1/4	1/4	1/2	C	Internal
AFA1/2FC*	1/2	1/4	1/2	C	Internal


AFA1/4HC

AFAH SERIES

- Stainless steel power element prevents corrosion and valve failure
- External superheat adjustment
- Replaceable inlet strainer
- SAE connections only
- Wrench flats on inlet and outlet
- Maximum working pressure: 700 psig
- Refrigerant R-22, R-290

EMERSON

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
AFA1/4HC*	1/4	1/4	1/2	C	Internal
AFA1/2HC*	1/2	1/4	1/2	C	Internal

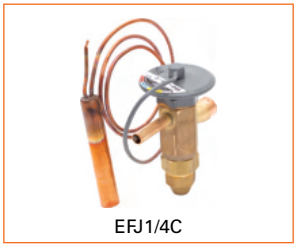

CSE3C

CS SERIES

- Use with refrigerants R404A, R408A, R502

SPORLAN

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
CSE3C*	3	3/8	1/2	C	External
CSE3Z*	3	3/8	1/2	Z	External
CSE4Z*	4	3/8	1/2	Z	External
CVE5C	5	3/8	1/2	C	External


EFJ1/4C

EFJ SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-134a, R-12, R-401A, R-409A

SPORLAN

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EFJ1/4C*	1/4	1/4	1/2	C	Internal
EFJ1/2C*	1/2	1/4	1/2	C	Internal
EFJ1C*	1	3/8	1/2	C	Internal
EFJE-1/8C*	1/8	1/4	1/2	C	External
EFJE1/4C*	1/4	1/4	1/2	C	External
EFJE1/2C*	1/2	1/4	1/2	C	External
EFJE1C*	1	3/8	1/2	C	External
EFJE1-1/2C*	1 1/2	3/8	1/2	C	External


EFS1/8C

EFS SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-404A, R-502, R-408A

SPORLAN

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EFS1/8C*	1/8	1/4	3/8	C	Internal
EFS-1/8ZP*	1/8	1/4	3/8	ZP	Internal
EFS1/4C*	1/4	1/4	1/2	C	Internal
EFS1/4Z*	1/4	1/4	1/2	Z	Internal
EFS1/4ZP*	1/4	1/4	1/2	ZP	Internal
EFS1/2C*	1/2	1/4	1/2	C	Internal

Continued on next page

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		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EFS1/2ZP*	1/2	1/4	1/2	ZP	Internal
EFS1C*	1	3/8	1/2	C	Internal
EFS1ZP*	1	3/8	1/2	ZP	Internal
EFSE1/4C*	1/4	1/4	1/2	C	External
EFSE1/4Z*	1/4	1/4	1/2	Z	External
EFSE1/4ZP*	1/4	1/4	1/2	ZP	External
EFSE1/2C*	1/2	1/4	1/2	C	External
EFSE1/2Z*	1/2	1/4	1/2	Z	External
EFSE1/2ZP*	1/2	1/4	1/2	ZP	External
EFSE1-1/2C*	1 1/2	3/8	1/2	C	External
EFSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	External
EFSE1C*	1	3/8	1/2	C	External
EFSE1Z*	1	3/8	1/2	Z	External
EFSE1ZP*	1	3/8	1/2	ZP	External
EFSE2C*	2	3/8	1/2	C	External
EFSE2ZP*	2	3/8	1/2	ZP	External


EFV1/4C

EFV SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EFV1/4C*	1/4	1/4	1/2	C	Internal
EFV1/4ZP*	1/4	1/4	1/2	ZP	Internal
EFV1/2C-1/4*	1/2	1/4	1/2	C	Internal
EFV1C*	1	1/4	1/2	C	Internal
EFVE1/4C*	1/4	1/4	3/8	C	External
EFVE1/2C*	1/2	1/4	1/2	C	External
EFVE1-1/2C*	1 1/2	3/8	1/2	C	External
EFVE1C*	1	1/4	1/2	C	External
EFVE1Z*	1	1/4	1/2	Z	External
EFVE2C*	2	3/8	1/2	C	External
EFVE3C*	3	3/8	1/2	C	External


EGJE1C

EGJ SERIES

Sporlan Type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type EG valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" ODF
- Refrigerant R-134a, R-12, R-401A, R-409A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EGJE1C*	1	3/8	1/2	C	External
EGJE1-1/2C*	1 1/2	3/8	1/2	C	External


EGS-1/2C

EGS SERIES

Sporlan Type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type EG valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" ODF
- Refrigerant R-404A, R-502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EGS-1/2C*	1/2	3/8	1/2	C	External
EGSE-1/2C*	1/2	3/8	1/2	C	External
EGSE-1/2Z*	1/2	3/8	1/2	Z	External
EGSE-1/2ZP*	1/2	3/8	1/2	ZP	External
EGSE1C*	1	3/8	1/2	C	External
EGSE1Z*	1	3/8	1/2	Z	External
EGSE1ZP*	1	3/8	1/2	ZP	External
EGSE1-1/2C*	1 1/2	3/8	1/2	C	External
EGSE1-1/2Z*	1 1/2	3/8	1/2	Z	External
EGSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	External
EGSE2C*	2	3/8	1/2	C	External
EGSE2ZP*	2	3/8	1/2	ZP	External

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TXV



EGV-3/4Z

EGV SERIES

Sporlan Type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type EG valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" ODF
- Refrigerant R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EGV-3/4Z*	3/4	3/8	1/2	Z	Internal
EGVE-1/5C*	1/5	3/8	1/2	C	External
EGVE-1/4C*	1/4	3/8	1/2	C	External
EGVE-1/3C*	1/3	3/8	1/2	C	External
EGVE-1/2C*	1/2	3/8	1/2	C	External
EGVE-1/2Z*	1/2	3/8	1/2	Z	External
EGVE-1/2ZP*	1/2	3/8	1/2	ZP	External
EGVE-3/4C*	3/4	3/8	1/2	C	External
EGVE-3/4Z*	3/4	3/8	1/2	Z	External
EGVE1C*	1	3/8	1/2	C	External
EGVE1Z*	1	3/8	1/2	Z	External
EGVE1ZP*	1	3/8	1/2	ZP	External
EGVE1ZP40*	1	3/8	1/2	ZP40	External
EGVE1-1/2C*	1 1/2	3/8	1/2	C	External
EGVE1-1/2Z*	1 1/2	3/8	1/2	Z	External
EGVE1-1/2ZP*	1 1/2	3/8	1/2	ZP	External
EGVE2C*	2	3/8	1/2	C	External
EGVE2Z*	2	3/8	1/2	Z	External
EGVE2ZP*	2	3/8	1/2	ZP	External
EGVE3C*	3	3/8	1/2	C	External



ERSE1/4C

ERSE SERIES

- Replaceable thermostatic element with gray epoxy coating
- Internally and externally equalized versions available
- Two body sizes: Small - For capacities less than 8 tons R-22, 6 tons R-404A, 5 tons R-134a and 8 tons R-410A; Large - For capacities 10 to12 tons R-22, 12-1/2 to15 tons R-410A
- ODF connections in a variety of common sizes
- Inlet strainer available
- Outlet Connections - ODF 3/8", 1/2", 5/8", 7/8", 1-1/8"
- Refrigerant: R-404A, R-408A, R-507

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
ERSE1/4C	1/4	1/4	1/2	C	External
ERSE1/4ZP	1/4	1/4	1/2	P	External
ERSE1/2C*	1/2	1/4	1/2	C	External
ERSE1-1/2C	1.5	3/8	1/2	C	External
ERSE2C	2	3/8	5/8	C	External
ERSE3C	3	1/2	5/8	C	External



ERVE1/3C

ERV SERIES

- Replaceable thermostatic element with gray epoxy coating
- Internally and externally equalized versions available
- Two body sizes: Small - For capacities less than 8 tons R-22, 6 tons R-404A, 5 tons R-134a and 8 tons R-410A; Large - For capacities 10 to12 tons R-22, 12-1/2 to15 tons R-410A
- ODF connections in a variety of common sizes
- Inlet strainer available
- Outlet Connections - ODF 3/8", 1/2", 5/8", 7/8", 1-1/8"
- Refrigerant: R-404A, R-408A, R-507

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
ERVE1/3C	1/3	1/4	1/2	C	External
ERVE3C*	3	3/8	1/2	C	External
ERVE5GA*	5	1/2	7/8	A/C	External
ERVE6C	6	5/8	7/8	C	External
ERVE6GA*	6	1/2	5/8	A/C	External
ERVE8C*	8	5/8	7/8	C	External
ERVE8CP100*	8	5/8	7/8	A/C 100 Lb. Limit	External
ERVE8GA*	8	5/8	7/8	A/C	External

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ERYE1-1/2CP

R454B - ERV SERIES

		Connection Size (In.)		
Part No.	Tons	Inlet	Outlet	Equalizer
ERYE1-1/2CP*	1.5	3/8	1/2	External
ERYE2-1/2CP*	2.5	3/8	1/2	External
ERYE3CP*	3	3/8	1/2	External
ERYE4-1/2CP*	4.5	3/8	1/2	External
ERYE6CP*	6	3/8	1/2	External
ERYE7CP*	7	1/2	5/8	External
ERYE8-1/2CP*	8.5	1/2	5/8	External
ERYE11-1/2CP*	11.5	1/2	7/8	External
ERYE11-1/2CP-5X9*	11.5	5/8	1 1/8	External
ERYE15-1/2CP*	15.5	7/8	1 1/8	External
ERYE18CP*	18	5/8	1 1/8	External
ERYE18CP-7X9*	18	7/8	1 1/8	External
OYE20CP*	20	7/8	1 1/8	External
OYE25CP*	25	7/8	1 1/8	External
OYE25CP9X11*	25	1 1/8	1 3/8	External
OYE35CP*	35	1 1/8	1 3/8	External
OYE35CP9X9*	35	1 1/8	1 1/8	External
OYE55CP*	55	1 1/8	1 3/8	External
OYE70CP*	70	1 1/8	1 3/8	External

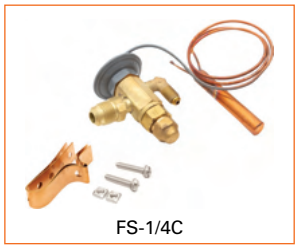

FJ-1/2C-1/4

FJ SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-134a, R-12, R-401A, R-409A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
FJ-1/2C-1/4*	1/2	1/4	1/2	C	Internal
FJ-1/2C-3/8*	1/2	3/8	1/2	C	Internal
FJ1C*	1	3/8	1/2	C	Internal
FJE-1/4C*	1/4	1/4	1/2	C	External
FJE1-1/2C*	1 1/2	3/8	1/2	C	External

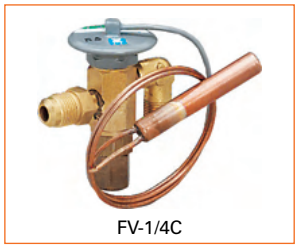

FS-1/4C

FS SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-404A, R-502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
FS-1/4C*	1/4	1/4	1/2	C	Internal
FS-1/2C*	1/2	1/4	1/2	C	Internal
FSE-1/4ZP*	1/4	1/4	1/2	ZP	External
FSE-1/2C*	1/2	1/4	1/2	C	External


FV-1/4C

FV SERIES

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60 x 50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Outlet Connections 3/8" SAE, 1/2" SAE, 3/8" ODF, 1/2" ODF
- Refrigerant: R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
FV-1/4C*	1/4	1/4	1/2	C	Internal
FV-1/2C*	1/2	1/4	1/2	C	Internal
FVE-1/4C*	1/4	1/4	1/2	C	External
FVE-1/2C*	1/2	3/8	1/2	C	External
FVE1-1/2C*	1 1/2	3/8	1/2	C	External
FVE1C*	1	3/8	1/2	C	External
FVE2C*	2	3/8	1/2	C	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TXV



GJ-1/2C-1/4

GJ SERIES

Sporlan Type G valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type G valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" SAE
- Refrigerant: R-134a, R-12, R-401A, R-409A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
GJ-1/2C-1/4*	1/2	1/4	1/2	C	Internal
GJ-1/2C-3/8*	1/2	3/8	1/2	C	Internal
GJ1C*	1	3/8	1/2	C	Internal
GJE-1/2ZP*	1/2	3/8	1/2	ZP	External
GJE1-1/2C*	1 1/2	3/8	1/2	C	External
GJE2C*	2	3/8	1/2	C	External



GS1ZP

GS SERIES

Sporlan Type G valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type G valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" SAE
- Refrigerant: R-404A, R-502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
GS1ZP*	1	3/8	1/2	ZP	Internal
GSE-1/2C*	1/2	3/8	1/2	C	External
GSE-1/2Z*	1/2	3/8	1/2	Z	External
GSE1C*	1	3/8	1/2	C	External
GSE1-1/2Z*	1 1/2	3/8	1/2	Z	External
GSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	External
GSE2ZP*	2	3/8	1/2	ZP	External



GV-1/2Z

GV SERIES

Sporlan Type G valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type G valve may be used for small capacity air conditioning and heat pump units.

- Outlet Connections - 1/2" SAE
- Refrigerant: R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
GV-1/2Z*	1/2	3/8	1/2	Z	Internal
GVE-1/2C*	1/2	3/8	1/2	C	External
GVE1C*	1	3/8	1/2	C	External
GVE1-1/2C*	1 1/2	3/8	1/2	C	External
GVE2C*	2	3/8	1/2	C	External



HVE16GA

HV SERIES

Sporlan Type H valve is a brass bar body, externally adjustable valve available with either ODF solder or FPT flange connections. The thermostatic element is replaceable, and the inlet connection has a permanent 16 mesh strainer. The FPT flange connection requires the Sporlan K-1178 adapter kit. This valve type provides the smallest capacity TEVs with flange connections, and it is designed for both air conditioning and refrigeration applications.

- Outlet Connections 7/8" ODF, 1-1/8" ODF, "H" flange type
- Refrigerant R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HVE16GA*	16	7/8	1 1/8	A/C GA	External

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MVE26GA

MV SERIES

Sporlan Type M valve is a cast bronze body, externally adjustable valve with either ODF solder or FPT flange connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type provides capacities greater than the Type H, and it is designed for both air conditioning and refrigeration applications. Flanges for the Type M valve are interchangeable with the Type V.

- Outlet Connections 1-1/8" ODF, 1-3/8" ODF, 1-5/8" ODF, M/V flange
- Refrigerant R-22, R-407C, R-407A, R422D

		Connection Size (In.)			
Part No.	**Tons**	**Inlet**	**Outlet**	**Thermostatic Charge**	**Equalizer**
MVE26GA*	26	7/8	1 1/8	A/C GA	External


SJE5C

SJ SERIES

Sporlan Type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

- Outlet Connections 5/8" ODF, 7/8" ODF, 1-1/8" ODF
- Refrigerant R-134a, R-12, R-401A, R-409A

		Connection Size (In.)			
Part No.	**Tons**	**Inlet**	**Outlet**	**Thermostatic Charge**	**Equalizer**
SJE5C*	5	5/8	7/8	C	External


SRSE-1/2C

SRS SERIES

- Small brass body
- Replaceable thermostatic element with gray epoxy coating
- Externally adjustable
- Balanced port construction
- Internally and externally equalized versions available
- Available with extended ODF fittings
- 100 mesh removable strainer, can be cleaned or replaced without removing the valve from the system
- Refrigerant: R-404A, R-408A, R-507

		Connection Size (In.)			
Part No.	**Tons**	**Inlet**	**Outlet**	**Thermostatic Charge**	**Equalizer**
SRSE-1/2C*	1/2	3/8	1/2	C	External
SRSE1ZP*	1	3/8	1/2	ZP	External


SRVE1/2C

SRV SERIES

- Small brass body
- Replaceable thermostatic element with gray epoxy coating
- Externally adjustable
- Balanced port construction
- Internally and externally equalized versions available
- Available with extended ODF fittings
- 100 mesh removable strainer, can be cleaned or replaced without removing the valve from the system
- Refrigerant: R-404A, R-408A, R-507

		Connection Size (In.)			
Part No.	**Tons**	**Inlet**	**Outlet**	**Thermostatic Charge**	**Equalizer**
SRVE1/2C	1/2	3/8	1/2	C	External
SRVE1C*	1	3/8	1/2	C	External
SRVE1Z	1	3/8	1/2	Z	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TXV


SSE2C

SS VALVE

Sporlan Type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

- Outlet Connections 5/8" ODF, 7/8" ODF, 1-1/8" ODF
- Refrigerant R-404A, R-502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
SSE2C*	2	1/2	5/8	C	External
SSE3C*	3	1/2	7/8	C	External
SSE3Z*	3	1/2	7/8	Z	External
SSE3ZP*	3	1/2	7/8	ZP	External
SSE4C*	4	1/2	7/8	C	External
SSE4Z*	4	1/2	7/8	Z	External
SSE4ZP*	4	1/2	7/8	ZP	External
SSE6C*	6	5/8	7/8	C	External
SSE6Z*	6	5/8	7/8	Z	External
SSE6ZP*	6	5/8	7/8	ZP	External
SSE7ZP*	7	5/8	7/8	ZP	External




SVE1C

SV SERIES

Sporlan Type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

- Outlet Connections 5/8" ODF, 7/8" ODF, 1-1/8" ODF
- Refrigerant R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
SVE1C*[1]	1	1/2	5/8	C	External
SVE2C*[1]	2	1/2	5/8	C	External
SVE2GA*[1]	2	1/2	5/8	A/C GA	External
SVE3C*[1]	3	1/2	5/8	C	External
SVE3GA*[1]	3	1/2	5/8	A/C GA	External
SVE4C*[1]	4	1/2	7/8	C	External
SVE4GA*[1]	4	1/2	7/8	A/C GA	External
SVE4Z*[1]	4	1/2	7/8	Z	External
SVE5CP100*[1]	5	1/2	7/8	A/C CP100	External
SVE5GA*[1]	5	1/2	7/8	A/C GA	External
SVE8C*[1]	8	5/8	7/8	C	External
SVE8CP100*[1]	8	5/8	7/8	A/C CP100	External
SVE8GA*[1]	8	5/8	7/8	A/C GA	External
SVE10C*[1]	10	5/8	7/8	C	External
SVE10CP100*[1]	10	5/8	7/8	A/C CP100	External
SVE10GA*[1]	10	5/8	7/8	A/C GA	External
SVE5C*[1]	15	1/2	7/8	C	External

1 5/8 M flare inlet and outlet


VVE52CP100

VV SERIES

Sporlan type V valve is a cast bronze body, externally adjustable valve available with ODF solder flange connections. The thermostatic element is replaceable and the inlet connection has a permanent 12 mesh strainer. This valve features a dual port semi balanced design and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve provides greater capacities than the type M valve. Flanges for the type V valve are interchangeable with the type M.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
VVE52CP100*	52	1 3/8	1 3/8	A/C CP100	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


Y1037FV13190

TEMPERATURE RESPONSIVE

Modulates refrigerant flow in response to bulb temperature to help solve R22 discharge temperature problems.

- Extended solder ends
- Connection size: 3/8" inlet ODF x 3/8" outlet ODF
- Capillary length: 5'
- Overall width: 4.98"

Part No.	Ref.	Nominal Tons	Temperature (°F)	Refrigerant
Y1037FV13190*	R22	1/3	190	R22
Y1037FV13230*	R22	1/3	230	R22
Y1037FV12190*	R22	1/2	190	R22
Y1037FV1223*	R22	1/2	230	R22
Y1037FV1180*	R22	1	180	R22
Y1037FV1190*	R22	1	190	R22
Y1037FV1220*	R22	1	220	R22
Y1037FV1230*	R22	1	230	R22
Y1037FV1240*	R22	1	240	R22
Y1037FV11223*	R22	1 1/2	230	R22
Y1037FV5190*	R22	5	190	R22

BALANCED PORT TXV


067L5856

TR6 SERIES, R22

The Danfoss TR6 thermostatic expansion valve helps OEMs meet energy challenges by enabling air-conditioning systems to match a cooling demand at any given time. In designs without a TXV, refrigerant flow is regulated by a fixed orifice. Because the size of the orifice remains constant, the flow of refrigerant remains the same regardless of the cooling demand on the system. The result: only average efficiency. The TR6 design includes a number of features to ensure a long life of efficient service. The sensing bulb charge is carefully optimized for residential air-conditioning. The power element, containing the sensitive valve diaphragm that operates the valve, is laser welded. Because there is much less heat input with laser welding than with traditional plasma welding, the integrity of the diaphragm is not compromised. Danfoss is a pioneer in the use of laser welding, which is also a much cleaner process.

		Connection Size (In.)		
Part No.	Tons	Inlet	Outlet	Equalizer
067L5856*	1 to 2	3/8	3/8	External
067L5857*	2 1/2 to 3	3/8	3/8	External
067L5858*	3 1/2 to 4	3/8	3/8	External
067L5859*	5 to 6	3/8	3/8	External
067L5958*	6	3/8	3/8	External


067L5955

R410A

The Danfoss TR6 thermostatic expansion valve helps OEMs meet energy challenges by enabling air-conditioning systems to match a cooling demand at any given time. In designs without a TXV, refrigerant flow is regulated by a fixed orifice. Because the size of the orifice remains constant, the flow of refrigerant remains the same regardless of the cooling demand on the system. The result: only average efficiency. The TR6 design includes a number of features to ensure a long life of efficient service. The sensing bulb charge is carefully optimized for residential air-conditioning. The power element, containing the sensitive valve diaphragm that operates the valve, is laser welded. Because there is much less heat input with laser welding than with traditional plasma welding, the integrity of the diaphragm is not compromised. Danfoss is a pioneer in the use of laser welding, which is also a much cleaner process.

		Connection Size (In.)		
Part No.	Tons	Inlet	Outlet	Equalizer
067L5955*	3	3/8	3/8	External
067L5956*	4	3/8	3/8	External
067L5957*	5	3/8	3/8	External


BFSAAC

BFS SERIES

Sporlan Type BF valve is a small brass bar body valve with SAE flare connections and balanced port construction. This valve has the same exterior dimensions as the Type F valve. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. The balanced port construction makes this valve ideally suited for small capacity refrigeration applications which operate over widely varying operating conditions.

- Outlet Connections 1/2" SAE
- Refrigerant R-404A, R502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
BFSAAC*	1/4 to 1/3	1/4	1/2	C	Internal
BFSEAAC*	1/4 to 1/3	1/4	1/2	C	External
BFSEAC*	1/2 to 1	3/8	1/2	C	External
BFSEAZ*	1/2 to 1	3/8	1/2	Z	External
BFSEAZP*	1/2 to 1	3/8	1/2	ZP	External
BFSEBC*	1 1/4 to 2	3/8	1/2	C	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV


BFVAC

BFV SERIES

Sporlan Type BF valve is a small brass bar body valve with SAE flare connections and balanced port construction. This valve has the same exterior dimensions as the Type F valve. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer. The balanced port construction makes this valve ideally suited for small capacity refrigeration applications which operate over widely varying operating conditions.

- Outlet Connections 1/2" SAE
- Refrigerant R-22, R-407C, R-407A, R-422D

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
BFVAC*	3/4 to 1 1/2	3/8	1/2	C	Internal
BFVAAC*	1/2 to 2/3	1/4	1/2	C	Internal
BFVEAC*	3/4 to 1 1/2	3/8	1/2	C	External


EBFJAAAC

EBFJ SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing. The balanced port construction makes these valves ideally suited for small capacity refrigeration applications which operate over widely varying conditions.

- Outlet Connections 1/2" ODF, 5/8" ODF
- Refrigerant R-134a R-12, R-401A, R-409A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EBFJAAAC*	1/8 to 1/5	3/8	1/2	C	Internal
EBFJAAC*	1/4 to 1/3	3/8	1/2	C	Internal
EBFJAC*	1/2 to 1	3/8	1/2	C	Internal
EBFJEAAC*	1/4 to 1/3	3/8	1/2	C	External
EBFJEAC*	1/2 to 1	3/8	1/2	C	External
EBFJEBC*	1 1/4 to 1 3/4	3/8	1/2	C	External


EBFSAAAC

EBFS SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EBFSAAAC*	1/8 to 1/5	3/8	1/2	C	Internal
EBFSAAC*	1/4 to 1/3	3/8	1/2	C	Internal
EBFSAAZ*	1/4 to 1/3	3/8	1/2	Z	Internal
EBFSAC*	1/2 to 1	3/8	1/2	C	Internal
EBFSAZ*	1/2 to 1	3/8	1/2	Z	Internal
EBFSEAAC*	1/4 to 1/3	3/8	1/2	C	External
EBFSEAAZ*	1/4 to 1/3	3/8	1/2	Z	External
EBFSEAC*	1/2 to 1	3/8	1/2	C	External
EBFSEAZ*	1/2 to 1	3/8	1/2	Z	External
EBFSEAZP*	1/2 to 1	3/8	1/2	ZP	External
EBFSEBC*	1 1/4 to 2	3/8	1/2	C	External
EBFSEBC-3X4*	1 1/4 to 2	3/8	1/2	C	External
EBFSEBZ*	1 1/4 to 2	3/8	1/2	Z	External
EBFSECC*	2 1/4 to 3	3/8	1/2	C	External
EBFSECZ*	2 1/4 to 3	3/8	1/2	Z	External


EBFVAC

EBFV SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EBFVAC*	3/4 to 1 1/2	3/8	1/2	C	Internal
EBFVAAAC*	1/8 to 1/3	3/8	1/2	C	Internal
EBFVAAC*	1/2 to 2/3	3/8	1/2	C	Internal
EBFVEAC*	3/4 to 1 1/2	3/8	1/2	C	External
EBFVEAZ*	3/4 to 1 1/2	3/8	1/2	Z	External
EBFVEAAAC*	1/8 to 1/3	3/8	1/2	C	External
EBFVEAAC*	1/2 to 2/3	3/8	1/2	C	External
EBFVEAAZP*	1/2 to 2/3	3/8	1/2	ZP	External
EBFVEBC*	1 3/4 to 3	3/8	1/2	C	External
EBFVECC*	3 1/4 to 5 1/2	3/8	1/2	C	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


EBSVE8GA

EBSV SERIES

Sporlan type EBS valve is a brass bar body valve having the same physical sizes as the type S valve except the type EBS features a balanced port construction and extended ODF connections. The thermostatic element is replaceable. The balanced port construction makes this valve ideally suited for refrigeration and air conditioning applications which operate over widely varying conditions.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
EBSVE8GA*	8	5/8	7/8	A/C GA	External
EBSVE8CP100*	8	5/8	7/8	A/C CP100	External
EBSVE8C*	8	5/8	7/8	C	External
EBSVE11GA*	11	5/8	7/8	A/C GA	External
EBSVE11CP100*	11	5/8	7/8	A/C CP100	External
EBSVE11C*	11	5/8	7/8	C	External
EBSVE15C*	15	7/8	1 1/8	C	External
EBSVE15GA*	15	7/8	1 1/8	A/C GA	External


ERZE2GA

R SERIES, R410A

Sporlan Type ER valve is a small brass bar body, externally adjustable with ODF solder connections, a replaceable thermostatic element, and balanced port construction. The ER valve is designed for R-22 and R-410A air conditioning and heat pump applications and is ideal for replacing I, BI, BBI and RI (non-RPB version only) valves. This valve type has two body styles: a small body which provides capacities up to 8 tons R-22 and R-410A, and a large body style which extends capacities to 12 tons R-22 and 15 tons R-410A. This valve may also be applied in bi-directional applications.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
ERZE2GA*	2	3/8	1/2	GA	External
ERZE3GA*	3	3/8	1/2	GA	External
ERZE4GA*	4	3/8	1/2	GA	External
ERZE5GA*	5	3/8	1/2	GA	External
ERZE6GA*	6	1/2	5/8	GA	External
ERZE8GA*	8	5/8	7/8	GA	External
ERZE8GA-B15*	8	5/8	7/8	GA	External
ERZE8CP180*	8	5/8	7/8	CP180	External
ERZE12-1/2GA*	12 1/2	5/8	7/8	GA	External

Continued on next page

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
ERZE12-1/2GA-B15*	12 1/2	5/8	7/8	GA	External
ERZE12-1/2CP180*	12 1/2	5/8	7/8	CP180	External
ERZE15GA*	15	5/8	1 1/8	GA	External
ERZE15GA-B15*	15	5/8	1 1/8	GA	External
ERZE12-1/2GA 5X9*	12 1/2	5/8	1 1/8	GA	External


HF1/2FC

HFF SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-12, R134a

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HF1/2FC*	1/2	3/8	1/2	C	Internal
HF1FC*	1	3/8	1/2	C	Internal
HFE1/4FC*	1/4	3/8	1/2	C	External
HFE1/2FC*	1/2	3/8	1/2	C	External
HFE1FC*	1	3/8	1/2	C	External
HFE2FC*	2	3/8	1/2	C	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV


HF1/4HC

HFH SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Bi-directional capability up to 3-1/2 tons for R-22 on one valve superheat control in cooling and heating
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-22, R-407A

COPELAND

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HF1/4HC*	1/4	3/8	1/2	C	Internal
HF1/2HC*	1/2	3/8	1/2	C	Internal
HF1HC*	1	3/8	1/2	C	Internal
HFE1/2HC*	1/2	3/8	1/2	C	External
HFE1/2HZ*	1/2	3/8	1/2	Z	External
HFE3HC*	3	3/8	1/2	C	External


HF1/2RC

HFR SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-502

EMERSON

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HF1/2RC*	1/2	3/8	1/2	C	Internal
HF1/2RZ*	1/2	3/8	1/2	Z	Internal
HFE2RC*	2	3/8	1/2	C	External


HFESC2HZ

HFESCH SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Bi-directional capability up to 3-1/2 tons for R-22 on one valve superheat control in cooling and heating
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-22, R-407A

COPELAND

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HFESC2HZ*	2	3/8	1/2	Z	External


HFES2RZ

HFESR SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-502

COPELAND

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HFES2RZ*	2	3/8	1/2	Z	External

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HFES2SZ

HFESS SERIES

The HF Series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power assembly eliminates corrosion and prevents valve failure
- Two body sizes provide capacities from 1/8 to 13 tons for R-404A
- Bodies, cages and power assemblies can be ordered separately or in pre-packaged service kits
- Optional removable inlet strainer (ODF only)
- Available in straight-through or angle flow configurations
- Available with internal or external equalizer
- Available in ODF or SAE connections
- Refrigerants - R-404A, 407H

COPELAND

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
HFES2SZ*	2	3/8	1/2	Z	External
HFES10SZ*	10	5/8	7/8	Z	External



HXCAE3KXCHAT

HXCAE, R410A

The Sporlan HX series balanced port valve is designed specifically for air conditioning and heat pumps used in both air and water source systems. It offers features such as bleed ports and a variety of connection styles for the inlet, outlet, and external equalizer. The HXC series adds a built in 5 ton check valve for R-22, R-407C, and R410 heat pump applications with either factory set or field adjustable superheat. Used in Residential Air Conditioning and Light Commercial Air Conditioning markets.

- Stainless steel power element
- Bleed ports available
- Bi-directional metering available
- Weight: 10.7 oz (.30 kg)
- Factory set or field adjustable
- Low pressure drop internal check valve
- Refrigerant R-22

SPORLAN

		Connection Size (In.)	
Part No.	Tons	Inlet	Outlet
HXCAE3KXCHAT*	1 1/2 to 3	Male	Female
HXCAE3KX*	1 1/2 to 3	3/8	1/2
HXCAE6KXCHAT*	3 1/2 to 5	Male	Female
HXCAE6KX*	3 1/2 to 5	3/8	1/2



HXCAE3VXCHAT

HXCAE, R22

The Sporlan HX series balanced port valve is designed specifically for air conditioning and heat pumps used in both air and water source systems. It offers features such as bleed ports and a variety of connection styles for the inlet, outlet, and external equalizer. The HXC series adds a built in 5 ton check valve for R-22, R-407C, and R410 heat pump applications with either factory set or field adjustable superheat. Used in Residential Air Conditioning and Light Commercial Air Conditioning markets.

- Stainless steel power element
- Bleed ports available
- Bi-directional metering available
- Weight: 10.7 oz (.30 kg)
- Factory set or field adjustable
- Low pressure drop internal check valve
- Refrigerant R-22

SPORLAN

		Connection Size (In.)	
Part No.	Tons	Inlet	Outlet
HXCAE3VXCHAT*	1 1/2 to 3	Male	Female
HXCAE3VX*	1 1/2 to 3	3/8	1/2
HXCAE5VXCHAT*	3 1/2 to 5	Male	Female
HXCAE5VX*	3 1/2 to 5	3/8	1/2



OJE12CP60

OJ SERIES

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve type has two body styles: a small body which provides capacities up to 30 tons R-22 and 35 tons R-410A, and a large body which extends capacities to 70 tons R-22 and 60 tons R-410A.

- Outlet Connections 1-1/8" ODF, 1-3/8" ODF, 1-5/8" ODF
- Refrigerant R-134a, R-12, R-401A, R-409A

SPORLAN

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
OJE12CP60*	12	7/8	1 1/8	A/C CP60	External
OJE16CP60*	16	7/8	1 3/8	A/C CP60	External
OJE23CP60*	23	7/8	1 3/8	A/C CP60	External

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BALANCED PORT TXV



OSE6C

OS SERIES

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
OSE6C*	6	7/8	1 1/8	C	External
OSE6ZP*	6	7/8	1 1/8	ZP	External
OSE9C*	9	7/8	1 1/8	C	External
OSE9ZP*	9	7/8	1 1/8	ZP	External
OSE12C*	12	7/8	1 3/8	C	External
OSE12Z*	12	7/8	1 3/8	Z	External
OSE12ZP*	12	7/8	1 3/8	ZP	External
OSE21C*	21	1 1/8	1 3/8	C	External
OSE21ZP*	21	1 1/8	1 3/8	ZP	External
OSE30Z*	30	1 1/8	1 5/8	Z	External



OVE10GA

OV SERIES

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
OVE10GA*	10	5/8	7/8	A/C GA	External
OVE10CP100*	10	5/8	7/8	A/C CP100	External
OVE10C*	10	5/8	7/8	C	External
OVE15GA*	15	7/8	1 1/8	A/C GA	External
OVE15CP100*	15	7/8	1 1/8	A/C CP100	External

Continued on next page

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
OVE15C*	15	7/8	1 1/8	C	External
OVE20GA*	20	7/8	1 3/8	A/C GA	External
OVE20C*	20	7/8	1 3/8	C	External
OVE30GA*	30	1 1/8	1 3/8	A/C GA	External
OVE30CP100*	30	1 1/8	1 3/8	A/C CP100	External
OVE40GA*	40	1 1/8	1 3/8	A/C GA	External
OVE40CP100*	40	1 1/8	1 3/8	A/C CP100	External
OVE55GA*	55	1 1/8	1 3/8	A/C GA	External
OVE55CP100*	55	1 1/8	1 3/8	A/C CP100	External



OZE20GA

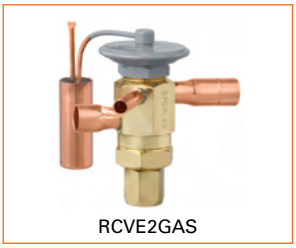
OZ SERIES

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve type has two body styles: a small body which provides capacities up to 30 tons R-22 and 35 tons R-410A, and a large body which extends capacities to 70 tons R-22 and 60 tons R-410A.

- Outlet Connections 1-1/8" ODF, 1-3/8" ODF, 1-5/8" ODF
- Refrigerant R-410A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
OZE20GA*	20	7/8	1 3/8	A/C GA	External
OZE20GA-B15*	20	7/8	1 3/8	A/C GA	External
OZE25GA*	25	1 1/8	1 3/8	A/C GA	External
OZE35GA*	35	1 1/8	1 3/8	A/C GA	External
OZE35GA-B15*	35	1 1/8	1 3/8	A/C GA	External
OZE50GA*	50	1 1/8	1 3/8	A/C GA	External
OZE60GA*	60	1 1/8	1 3/8	A/C GA	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


RCVE2GAS

RC SERIES, R22

Sporlan Type RC valve is a small brass body, externally adjustable valve with balanced port construction. The RC valves are available for replacement of types CBI and CBBI valves. These valves contain internal check valves to allow reverse flow on heat pump applications. This eliminates the need for an external check valve piped around the TEV for reverse flow. The RC valve can be used on heat pump and air conditioning (cooling only) applications. This allows you to reduce inventory by using the same valve to replace the I, BI and BBI valves. The RC valves can even be used to replace the RI valve (non-RPB versions only).

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
RCVE2GAS*	2	3/8	1/2	GA	External
RCVE2GAF*	2	3/8	1/2	GA	External
RCVE3GAS*	3	3/8	1/2	GA	External
RCVE3GAF*	3	3/8	1/2	GA	External
RCVE4GAS*	4	1/2	1/2	GA	External
RCVE4GAF*	4	1/2	1/2	GA	External
RCVE5GAS*	5	1/2	1/2	GA	External
RCVE5GAF*	5	1/2	1/2	GA	External
RCVE6GAS*	6	1/2	1/2	GA	External
RCVE2GAKIT*	2	3/8	1/2	GA	External
RCVE3GAKIT*	3	3/8	1/2	GA	External
RCVE4GAKIT*	4	1/2	1/2	GA	External
RCVE5GAKIT*	5	1/2	1/2	GA	External

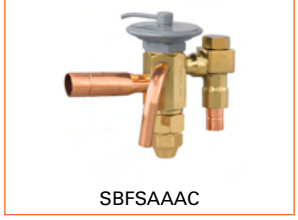

RCZE2GA

RC SERIES, R410A

Sporlan Type RC valve is a small brass body, externally adjustable valve with balanced port construction. The RC valves are available for replacement of types CBI and CBBI valves. These valves contain internal check valves to allow reverse flow on heat pump applications. This eliminates the need for an external check valve piped around the TEV for reverse flow. The RC valve can be used on heat pump and air conditioning (cooling only) applications.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
RCZE2GA*	2	3/8	1/2	GA	External
RCZE3GA*	3	3/8	1/2	GA	External
RCZE4GA*	4	1/2	1/2	GA	External
RCZE5GA*	5	1/2	5/8	GA	External
RCZE6GA*	6	1/2	5/8	GA	External
RCZE3GAKIT*	3	3/8	1/2	GA	External
RCZE4GAKIT*	4	1/2	1/2	GA	External
RCZE5GAKIT*	5	1/2	5/8	GA	External

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SBFSAAAC

SBFS SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing. The balanced port construction makes these valves ideally suited for small capacity refrigeration applications which operate over widely varying conditions.

- Outlet Connections 1/2" ODF, 5/8" ODF
- Refrigerant R-404A, R-502, R-408A

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
SBFSAAAC*	1/8 to 1/5	3/8	1/2	C	Internal
SBFSAAC*	1/4 to 1/3	3/8	1/2	C	Internal
SBFSAAZP*	1/4 to 1/3	3/8	1/2	ZP	Internal
SBFSEAAAC*	1/8 to 1/5	3/8	1/2	C	External
SBFSEAAAZ*	1/8 to 1/5	3/8	1/2	Z	External
SBFSEAAAZP*	1/8 to 1/5	3/8	1/2	ZP	External
SBFSEAAC*	1/4 to 1/3	3/8	1/2	C	External
SBFSEAAZP*	1/4 to 1/3	3/8	1/2	ZP	External
SBFSEAC*	1/2 to 1	3/8	1/2	C	External
SBFSEAZ*	1/2 to 1	3/8	1/2	Z	External
SBFSEAZP*	1/2 to 1	3/8	1/2	ZP	External
SBFSEBC*	1 1/4 to 2	3/8	1/2	C	External
SBFSEBZ*	1 1/4 to 2	3/8	1/2	Z	External
SBFSEBZP*	1 1/4 to 2	3/8	1/2	ZP	External
SBFSECC*	2 1/4 to 3	3/8	1/2	C	External
SBFSECZP*	2 1/4 to 3	3/8	1/2	ZP	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV



SBFVAAAC

SBFV SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
SBFVAAAC*	1/8 to 1/3	3/8	1/2	C	Internal
SBFVAAC*	1/2 to 2/3	3/8	1/2	C	Internal
SBFVEAAAZP*	1/8 to 1/3	3/8	1/2	ZP	External
SBFVEAAAC*	1/8 to 1/3	3/8	1/2	C	External
SBFVEAAC*	1/2 to 2/3	3/8	1/2	C	External
SBFVEAAZP*	1/2 to 2/3	3/8	1/2	ZP	External
SBFVEAAZP40*	1/2 to 2/3	3/8	1/2	ZP40	External
SBFVEAC*	3/4 to 1 1/2	3/8	1/2	C	External
SBFVEAZ*	3/4 to 1 1/2	3/8	1/2	Z	External
SBFVEAZP*	3/4 to 1 1/2	3/8	1/2	ZP	External
SBFVEBC*	1 3/4 to 3	3/8	1/2	C	External
SBFVEBZP*	1 3/4 to 3	3/8	1/2	ZP	External
SBFVEBZ*	1 3/4 to 3	3/8	1/2	Z	External
SBFVECC*	3 1/4 to 5 1/2	3/8	1/2	C	External
SBFVECZ*	3 1/4 to 5 1/2	3/8	1/2	Z	External



SBFJEAAC

SBFJ SERIES

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing.

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
SBFJEAAC*	1/4 to 1/3	3/8	1/2	C	External
SBFJEAC*	1/2 to 1	3/8	1/2	C	External



TRAE+10HC

TRAE+ SERIES

The TRAE+ thermostatic expansion valve is a large capacity series designed for refrigeration and air conditioning applications. The new series introduces a new replaceable stainless steel power element, a fully interchangeable cage assembly and a square body. This valve type features double balanced port design which provides stable and accurate control over wide loads and evaporator temperature ranges.

- Removable power element and cage assembly for full serviceability
- Stainless steel power element for enhanced corrosion resistance
- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4" ODF
- Thermostatic charge: HC for air conditioning applications or HCA optomized for heat pump applications
- Capillary length in feet
- Use with refrigerants R22, R407A, R407C

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
TRAE+10HC*	10	5/8	7/8	A/C	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


TRAE70HC

TRAE SERIES

The larger TRAE valves have a fixed stainless steel power assembly, a permanent cage assembly, and a balanced port design.

- Suitable for bi-flow applications
- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4" ODF
- Use with refrigerants R22, R407A, R407C

EMERSON

		Connection Size (In.)			
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer
TRAE70HC*	70	1 1/8	1 3/8	A/C	External


X26300FC1

POWER HEAD

- Replacement power element for HF(E) thermostatic expansion valve

EMERSON

Part No.	Refrigerant Class	Application	Thermostatic Charge	Capillary Length
X26300FC1*	R12/134a	Medium Temp	C	5'
X26300FZ1*	R12/134a	Low Temp	Z	5'
X26300HC1*	R22	A/C Med. Temp	C	5'
X26300HCA1*	R22	Heat Pump	C	5'
X26300HW1001*	R22	AC MOP	W100	5'
X26300HZ1*	R22	Low Temp	Z	5'
X26300SW451*	R404A	Low Temp MOP	W45	5'
X26300SZ1*	R404A	Low Temp	Z	5'

CARTRIDGE STYLE TXV


BQBODY2X4F

FLARE BODY/BALANCED PORT

The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications.

SPORLAN

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
BQBODY2X4F*	1/4	1/2	Internal
BQBODY3X4F*	3/8	1/2	Internal
BQEBODY2X4F*	1/4	1/2	External
BQEBODY3X4F*	3/8	1/2	External


EBQBODY2X3

ODF BODY, EXTENDED ENDS, BALANCED PORT

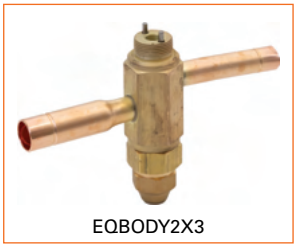
The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications. Q & BQ brass body type valves feature Sporlan's traditional knife edge, metal-to-metal thermostatic element to valve body construction, which ensures a leak-proof joint. Sporlan selective thermostatic charges are specifically designed for low temperature, medium temperature, and air conditioning application. Refrigerant flow through the valve port opposes the pin movement in all type Q and BQ valves. This provides improved stability at light loads, when the pin modulates to a position close to the port.

SPORLAN

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
EBQBODY2X3*	1/4	3/8	Internal
EBQBODY3X4*	3/8	1/2	Internal
EBQEBODY3X4*	3/8	1/2	External
EBQEBODY4X7*	1/2	7/8	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CARTRIDGE STYLE TXV


EQBODY2X3

ODF BODY, EXTENDED ENDS

The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications.

	Connection Size (In.)			
Part No.	Inlet	Outlet	Equalizer	Overall W (In.)
EQBODY2X3*	1/4	3/8	Internal	4.98
EQBODY2X4*	1/4	1/2	Internal	4.98
EQEBODY2X3*	1/4	3/8	External	4.98


QBODY2X3F

FLARE BODY

The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications.

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
QBODY2X3F*	1/4	3/8	Internal
QBODY2X4F*	1/4	1/2	Internal
QBODY3X4F*	3/8	1/2	Internal
QEBODY2X3F*	1/4	3/8	External
QEBODY2X4F*	1/4	1/2	External
QEBODY3X4F*	3/8	1/2	External


SBQBODY3X4

ODF BODY/BALANCED PORT

The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications. Q & BQ brass body type valves feature Sporlan's traditional knife edge, metal-to-metal thermostatic element to valve body construction, which ensures a leak-proof joint. Sporlan selective thermostatic charges are specifically designed for low temperature, medium temperature, and air conditioning application. Refrigerant flow through the valve port opposes the pin movement in all type Q and BQ valves. This provides improved stability at light loads, when the pin modulates to a position close to the port.

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
SBQBODY3X4*	3/8	1/2	Internal
SBQEBODY3X4*	3/8	1/2	External


SQBODY3X4

ODF BODY

The Sporlan Q & BQ series are replaceable cartridge style valves designed for small refrigeration systems, such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves are ideal for air conditioning and heat pump systems. BQ valves are balanced ported, engineered specifically for systems with a wide range of operating conditions and may be applied on bi-directional applications. Q & BQ brass body type valves feature Sporlan's traditional knife edge, metal-to-metal thermostatic element to valve body construction, which ensures a leak-proof joint. Sporlan selective thermostatic charges are specifically designed for low temperature, medium temperature, and air conditioning application. Refrigerant flow through the valve port opposes the pin movement in all type Q and BQ valves. This provides improved stability at light loads, when the pin modulates to a position close to the port.

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
SQBODY3X4*	3/8	1/2	Internal
SQEBODY3X4*	3/8	1/2	External

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


TCLE7-1/2FC

TCLEF SERIES

The T-series Take-Apart valves, with adjustable superheat and replaceable, interchangeable components are ideal for original equipment and field replacements in air conditioning, heat pump, and refrigeration applications.

- Take-Apart construction for easy field service
- External superheat adjustment
- Bi-Flow capability
- Stainless steel power assembly up to 18 tons
- Interchangeable, replaceable cages
- Interchangeable body flanges
- Interchangeable power assemblies
- 1/4 to 100 tons capacity

COPELAND

				Connection Size (In.)		
Part No.	Use with	Nominal Tons	Cage Included	Inlet	Out-let	Capillary Length
TCLE7-1/2FC*	R409A, R134A, R401A, R12	7 1/2	X22440B8B	0.625	0.5	5′


TCLE3HC

TCLEH SERIES

The T-series Take-Apart valves, with adjustable superheat and replaceable, interchangeable components are ideal for original equipment and field replacements in air conditioning, heat pump, and refrigeration applications.

COPELAND

				Connection Size (In.)		
Part No.	Use with	Nominal Tons	Cage Included	Inlet	Outlet	Capillary Length
TCLE3HC*	R22, R407A, R407C	3	X22440B4B	0.625	0.875	5′
TCLE5HC*	R22, R407A, R407C	5	X22440B5B	0.625	0.875	5′
TCLE7-1/2HC*	R22, R407A, R407C	7 1/2	X22440B6B	0.625	0.875	5′
TCLE10HC*	R22, R407A, R407C	10	X22440B7B	0.375	0.5	5′
TCLE12HC*	R22, R407A, R407C	12	X22440B8B	0.375	0.5	5′


TER26HC

T*R SERIES

The T-series Take-Apart valves, with adjustable superheat and replaceable, interchangeable components are ideal for original equipment and field replacements in air conditioning, heat pump, and refrigeration applications.

- Take-Apart construction for easy field service
- External superheat adjustment
- Bi-Flow capability
- Stainless steel power assembly up to 18 tons
- Interchangeable, replaceable cages
- Interchangeable body flanges
- Interchangeable power assemblies
- 1/4 to 100 tons capacity

EMERSON

				Connection Size (In.)		
Part No.	Use with	Nominal Tons	Cage Included	Inlet	Out-let	Capillary Length
TER26HC*	R22, R407A, R407C	26	X9117B7B	7/8	1 1/8	10′
TER35HC*	R22, R407A, R407C	35	X9117B8B	7/8	1 1/8	10′


TJLE14HC

TJ SERIES

The T-series Take-Apart valves, with adjustable superheat and replaceable, interchangeable components are ideal for original equipment and field replacements in air conditioning, heat pump, and refrigeration applications.

- Take-Apart construction for easy field service
- External superheat adjustment
- Bi-Flow capability
- Stainless steel power assembly up to 18 tons
- Interchangeable, replaceable cages
- Interchangeable body flanges
- Interchangeable power assemblies
- 1/4 to 100 tons capacity

COPELAND

				Connection Size (In.)		
Part No.	Use with	Nominal Tons	Cage Included	Inlet	Out-let	Capillary Length
TJLE14HC*	R22, R407A, R407C	14	XC724B5B	3/8	1/2	5′

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CARTRIDGE STYLE TXV


KT20298-1

FLARE, ANGLE BODY

The HF series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power element eliminates corrosion and prevents valve failure
- Two body sizes provide capacities from 1/4 to 20 tons
- The HF is offered several ways:
- Standard Body or Extended body
- Bi-Flow capability up to 5-1/2 tons R-22 allows one valve to control the superheat in both cooling and heating modes
- ODF or SAE connections
- Straight-through or angle flow configurations
- Removable inlet strainer (ODF only)
- Internal or external equalizer

COPELAND

	Connection Size (In.)				
Part No.	Inlet	Outlet	Use with	Equalizer	Overall L (In.)
KT20298-1	1/4	1/2	R-22, R-134A, R-404A, R-507, R-12, R-502	Internal	3.09
KT20298-3*	1/4	1/2	R-22, R-134A, R-404A, R-507, R-12, R-502	External	3.09
KT20298-4*	3/8	1/2	R-22, R-134A, R-404A, R-507, R-12, R-502	External	3.09


KT20298-5

ODF, ANGLE, REMOVABLE STRAINER BODY

The HF series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power element eliminates corrosion and prevents valve failure
- Two body sizes provide capacities from 1/4 to 20 tons
- The HF is offered several ways:
- Standard Body or Extended body
- Bi-Flow capability up to 5-1/2 tons R-22 allows one valve to control the superheat in both cooling and heating modes
- ODF or SAE connections
- Straight-through or angle flow configurations
- Removable inlet strainer (ODF only)
- Internal or external equalizer

EMERSON

	Connection Size (In.)			
Part No.	Inlet	Outlet	Use with	Equalizer
KT20298-5*	3/8	1/2	R-22, R-134A, R-404A, R-507, R-12, R-502	Internal
KT20298-6*	3/8	1/2	R-22, R-134A, R-404A, R-507, R-12, R-502	External


KT20298-8

ODF, STRAIGHT BODY

The HF series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

- Stainless steel replaceable power element eliminates corrosion and prevents valve failure
- Two body sizes provide capacities from 1/4 to 20 tons
- The HF is offered several ways:
- Standard Body or Extended body
- Bi-Flow capability up to 5-1/2 tons R-22 allows one valve to control the superheat in both cooling and heating modes
- ODF or SAE connections
- Straight-through or angle flow configurations
- Removable inlet strainer (ODF only)
- Internal or external equalizer

COPELAND

	Connection Size (In.)				
Part No.	Inlet	Out-let	Use with	Equalizer	Overall L (In.)
KT20298-8*	3/8	5/8	R-22, R-134A, R-404A, R-507, R-12, R-502	Internal	5.00
KT20298-12*	3/8	5/8	R-22, R-134A, R-404A, R-507, R-12, R-502	External	5.00
KT20298-13*	1/2	5/8	R-22, R-134A, R-404A, R-507, R-12, R-502	External	5.00
KT20298-14*	1/2	7/8	R-22, R-134A, R-404A, R-507, R-12, R-502	External	5.00


KT20299-0

CAGE KIT

EMERSON

	Nominal Cap. (Tons)						
Part No.	R12	R22	R134a	R404A	R507	R502	R407C
KT20299-0*	1/8	1/4	1/4	1/8	1/8	1/8	1/4
KT20299-1*	1/4	1/2	1/2	1/4	1/4	1/4	1/2
KT20299-2*	1/2	1	3/4	1/2	1/2	1/2	1
KT20299-3	1	1 1/2	1	1	1	1	1 1/2
KT20299-4*	1 1/4	2	1 1/2	1 1/4	1 1/4	1 1/4	2
KT20299-5*	1 1/2	2 1/2	1 3/4	1 1/2	1 1/2	1 1/2	2 1/2
KT20299-6*	2	3	2 1/2	2	2	2	3
KT20299-7*	3 1/2	5 1/2	4	3 1/2	3 1/2	3 1/2	5 1/2

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0682003

ORIFICE CARTRIDGE, T*2/T*E2 SERIES

Insert into body for proper refrigerant capacity.
Capacities for normal range (-40°F to +50°F)
For T*2/T*E2 cartridge style expansion valves

- Supplied with filter

	Capacity				Capacity (Tons)
Part No.	R134a	R404A	R22	R12	R502
0682003*	0.25	0.21	0.3	0.2	0.2
0682015*	0.8	0.6	1.0	0.5	0.5
0682006*	1.3	1.2	1.5	1.0	1.0
0682007*	1.9	1.7	2.3	1.5	1.5
0682008*	2.5	2.2	3.0	2.0	2.0
0682009*	3.0	2.6	4.5	3.0	3.0


068U1030

ORIFICE CARTRIDGE, TUA/TUAE SERIES

For TUA/TUAE cartridge style expansion valves. Insert into body for proper refrigerant capacity.
Capacities for normal range (-40°F to +50°F)

- Supplied with filter (068U0016 and gasket(068U0015)
- Gasket must be changed each time orifice is disassembled

	Capacity (Tons)		
Part No.	R12, R134a, R401A, R409A	R22, R407A, R407C	R404A, R408A, R502
068U1030	0.13	0.17	0.13
068U1031	0.19	0.25	0.19
068U1032	0.28	0.36	0.28
068U1033	0.39	0.50	0.39
068U1034	0.59	0.75	0.60
068U1035	0.78	1.00	0.79
068U1036	1.20	1.50	1.20
068U1037	1.60	2.00	1.60
068U1038	2.30	3.00	2.40
068U1039	3.50	4.50	3.50


068U2235

ODF BODY, STAINLESS STEEL, R404A

- Bimetal connections; no need for wet cloth
- Biflow function
- Compact design
- Stainless steel; high strength, suitable for foodservice and A/C applications
- Use with ORIFICE0-9

	Connection Size (In.)			
Part No.	Inlet	Outlet	Use with	Equalizer
068U2235*	3/8	1/2	R22	Internal
068U2237*	3/8	1/2	R22	External
068U2285*	3/8	1/2	R404A	Internal
068U2287*	3/8	1/2	R404A	External
068U2205*	3/8	1/2	R134a	Internal
068U2207*	3/8	1/2	R134a	External


068U4900

ICE MACHINE EXPANSION VALVE

The Danfoss universal ice machine expansion valve kit has all the valuable features of the TU valve paired with Danfoss ice machine expertise to make selection and installation easy.

- Includes stainless steel expansion valve, 3 orifices, a bulb strap, insulation tape, 2 elbow connections
- Replaceable orifice allows for capacity adaptations with a single valve, and enables access to the screen for cleaning
- Laser engraved product information for lasting identification of valve type
- Stainless steel capillary tube and bulb and laser welding for longest lasting valve in the industry
- Bimetal connections for fast and easy brazing with no wet wrap

	Connection Size (In.)			
Part No.	Inlet	Outlet	Use with	Description
068U4900*	1/4	3/8	R404A	Orifice Sizes: 1, 3, 5 (Nameplates Lbs/24 Hrs per TXV Flaker/Nugger: 75 to 950, Cuber: 75 to 600)
068U4901*	3/8	1/2	R404A	Orifice Sizes: 5, 7, 8 (Nameplates Lbs/24 Hrs per TXV Flaker/Nugger: 501 to 950, Cuber: 351 to 1800)

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CARTRIDGE STYLE TXV



068U7001

TXV KIT

Kits save space, inventory and cost while allowing easy replenishment of parts

Part No.	Description	Includes
068U7001*	Maximizer Sweat and Flare kit	TUA/TUAE +T2/TE2



068Z3346

T*2 STYLE VALVES

These thermostatic expansion valves have been developed and designed especially for easy and quick soldering into hermetic refrigeration systems.

- Bi-metal connections
- Compact, lightweight design
- Stainless steel High body strength.
- Laser-welded power element
- Stainless steel capillary tube
- Laser engraving
- Fully hermetic brazed and laser-welded design

	Connection Size (In.)		
Part No.	Inlet	Outlet	Equalizer
068Z3346*	3/8	1/2	Internal
068Z3348*	3/8	1/2	External
068Z3414*	3/8	1/2	Internal
068Z3403*	3/8	1/2	Internal
068Z3415*	3/8	1/2	External
068Z3206*	3/8	1/2	Internal
068Z3209*	3/8	1/2	External



X22440B2B

CAGE ASSEMBLY

- Used with various take-a-part expansion valve assemblies and regulators
- B-suffix part numbers for external equalizer
- A-suffix part number for internal equalizer
- Nominal capacities in tons of refrigeration

		Nominal Cap. (Tons)		
Part No.	Use with	R134a	R22	R404A
X22440B2B*	TCLE	3/4	1	1/2
X22440B3B*	TCLE	1 1/2	2	1
X22440B4B*	TCLE	2 1/2	3	2
X22440B5B*	TCLE	3 1/2	5	3
X22440B6B*	TCLE	5 1/2	7 1/2	4 1/2
X22440B7B*	TCLE	7 1/2	10	7
X22440B8B*	TCLE	9	12	8
X11873B5B*	TJR	13	18	12
X9117B6B*	TER	16	22	14
X9117B7B*	TER	19	26	16
X9117B8B*	TER	25	35	21
X9117B9B*	TER	31	45	27
X9144B13B*	THR	56	85	51



XB1019FC1B

POWER ASSEMBLY

- Use XB1019 and XB8019 power assembly on TCL, TCLE, TJLE, TJRE expansion valves

Part No.	Refrigerant Class	Thermostatic Charge	Capillary Length
XB1019FC1B*	R12	C	5′
XB1019FC2B*	R12	C	10′
XB1019HC1B*	R22	C	5′
XB1019RC1B*	R502	C	5′



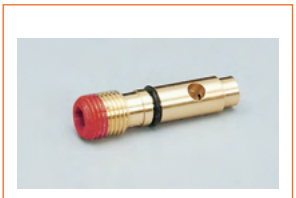
XC726HC2B

POWER ASSEMBLY

- Use XC726 power assembly on TER, TIR, THR, TMR expansion valves

Part No.	Refrigerant Class	Thermostatic Charge	Capillary Length
XC726HC2B*	R22	C	10′

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



QC0

ORIFICE CARTRIDGE

Insert into body for proper refrigerant capacity.

- Requires 4mm allen wrench
- 791001: replacement O-ring
- Use BQC cartridge for balanced port valve

Part No.	Color	Capacity (Tons) R12, R134a, R401A, R409A	R22, R407A, R407C	R404A, R408A, R502
QC0*	Red	1/6	1/3	1/6
QC1*	Yellow	1/4	1/2, 3/4	1/4
QC2*	Green	1/2	1	1/2
QC3*	Blue	1	1 1/2	1
QC4*	Pink	1 1/2	2, 2 1/2	1 1/2
QC5*	Black	2	3	2
QC6*	White	2 1/2	5	3
BQCAAA*	Red	1/8 to 1/5	1/8 to 1/3	1/8 to 1/5
BQCAA*	Yellow	1/4 to 1/3	1/2 to 2/3	1/4 to 1/3
BQCA*	Blue	1/2 to 1	3/4 to 1 1/2	1/2 to 1
BQCA-BP15*	Blue	1/2 to 1	3/4 to 1 1/2	1/2 to 1
BQCB*	Pink	1 1/4 to 1 3/4	1 3/4 to 3	1 1/4 to 2
BQCB-BP15*	Pink	1 1/4 to 1 3/4	1 3/4 to 3	1 1/4 to 2
BQCC*	White	2 to 3	3 1/4 to 5 1/2	2 1/4 to 3
BQCC-BP15*	White	2 to 3	3 1/4 to 5 1/2	2 1/4 to 3



184000

ACCESSORIES

Part No.	Description
184000*	(1) 4mm Allen Wrench, (1) Bottle Oil
184007*	(1) BQ Cartridge Tool, (1) Bottle Oil
AW1*	Replacement 4mm Wrench
OB1*	Replacement Oil Bottle
4444000*	BQ Cartridge Tool
180390*	KT43 Element Wrench
183367*	Adapter, 5/8"ODF x Aeroquip
183368*	Adapter, 1/2"ODF x Aeroquip
183369*	Adapter, 5/8"ODF x Chatleff
183370*	Adapter, 1/2"ODF x Chatleff
183371*	Adapter, 1/2"ODF x 3/8"SAE



C5005

ANGLE FLANGE

- For take-a-part thermostatic expansion valves
- Available in SAE M flare and sweat ODF
- 7/8" ODF fitting machined for 1 1/8" ODM

Part No.	Use with	Connection Size (In.) Inlet	Outlet
C5005*	TCL(E)	3/8	5/8
C5014*	TCL(E)	3/8	1/2
C5015*	TCL(E)	3/8	5/8
C5017*	TCL(E)	1/2	5/8
9151FLG*[1]	CPHE5, TIR	7/8	7/8
9153FLG*[1]	CPHE4, TER	7/8	7/8

1 1 1/8 ODM



9150

STRAIGHT-THRU FLANGE

- Flanges are straight through configuration, offset for the larger size valves
- Available in SAE male flare and ODF solder
- 7/8" ODF fitting machined for 1 1/8" ODM

Part No.	Use with	Connection Size (In.) Inlet	Outlet
9150*[1]	CPHE5, TIR	7/8	7/8
9152FLG*[1]	CPHE4, TER	7/8	7/8
97612*	TCL(E)	1/2	7/8
97614*	CPHE2, TCL(E)	1/2	5/8
97615*	TCL(E)	3/8	1/2
X634616*	TCL(E)	5/8	5/8
X634617*	TCL(E)	5/8	7/8
X634618*	TCL(E)	5/8	1 1/8
X634634*	TCL(E)	7/8	1 1/8
X66691*	TCL(E)	3/8	5/8
X66694*	TCL(E)	3/8	1/2

1 1 1/8 ODM

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CARTRIDGE STYLE TXV

PRE-PACKAGED SERVICE KITS



HFKKT-20301-1

EMERSON

Part No.	Description	Includes
HFKKT-20301-1*	Cage Kit	2 of each

GASKET STRIP



X134551

COPELAND

Part No.	Description
X134551*	Gasket Strip, T, ZZ Series Valves



068U0016

ENGINEERING TOMORROW Danfoss

Part No.	Description
068U0016	Orifice Filter
068U0015	Orifice Gasket

CHARGE ELEMENT

KT33 SERIES



KT33VC

- Used on large capacity O Series and H Series valves

SPORLAN

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT33VC*	R22	High Temp	N/A	5′
KT33VCP100*	R22	A/C	100	5′
KT33JCP60*	R134a	A/C	60	5′
KT33VZ*	R22	Low Temp	N/A	5′
KT33SZP*	R404A	Low Temp	45	5′
KT33NGA*	R407C	A/C	N/A	5′
KT33VGA10*	R22	A/C	10	10′
KT33SC/PC*	R404A/R507	High Temp	N/A	5′

KT43 SERIES



KT43SZ-30

- Used on N, RCVE, F, EF,Q Body, BF,SBF, EBF Series valves
- DSH application is desuperheating valve on bypass circuit
- KT45 fits 43 nut but is heavier construction for R410A service

SPORLAN

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT43SZ-30*	R404A	Low Temp	30	2.5′
KT43VC-30*	R22	High Temp	30	2.5′
KT43SC/PC-30*	R404A/R507	High Temp	30	2.5′
KT43NGA*	R407C	A/C	N/A	5′
KT43VCP100*	R22	A/C	100	5′
KT45-5ZGA*	R410A	A/C	N/A	5′
KT43JCP60*	R134a	A/C	60	5′
KT45ZGA*	R410A	A/C	N/A	5′
KT45ZCP180*	R410A	A/C	180	5′
KT43FZ30*	R410A	Chiller	N/A	5′
KT43SCP*	R410A	Chiller	N/A	5′
KT45L0*	R410A	Chiller	N/A	5′
KT43JC*	R134a	High Temp	N/A	5′
KT43VC*	R22	High Temp	N/A	5′
KT43DC*	R448A	High Temp	N/A	5′
KT43SC/PC*	R404A/R507	High Temp	N/A	5′
KT43JZ*	R409A	Low Temp	N/A	5′
KT43SZP*	R404A	Low Temp	45	5′
KT43SZ*	R404A	Low Temp	N/A	5′
KT43VZ*	R22	Low Temp	N/A	5′
KT43VZP40*	R22	Low Temp	40	5′
KT43VZP*	R22	Low Temp	30	5′
KT43JZP*	R134a	Low Temp	20	5′

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


KT53JCP60

KT53 SERIES

- Used on G, EG Series valves

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT53JCP60*	R134a	A/C	60	5′
KT53NGA*	R407C	A/C	N/A	5′
KT53VCP100*	R22	A/C	100	5′
KT53JZ*	R134a	Low Temp	N/A	5′
KT53SZ*	R404A	Low Temp	N/A	5′
KT53SZP*	R404A	Low Temp	45	5′
KT53VZ*	R22	Low Temp	N/A	5′
KT53VZP*	R22	Low Temp	30	5′
KT53JC*	R134a	High Temp	N/A	5′
KT53SC/PC*	R404A/R507	High Temp	N/A	5′
KT53VC*	R22	High Temp	N/A	5′


KT63FZ

KT63 SERIES

- Used on M, V, W Series valves

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT63FZ*	R409A	Low Temp	N/A	5′
KT63SC/PC*	R404A	High Temp	N/A	5′


KT83NGA

KT83 SERIES

- Used on C, S, EBS, Small O Series valves

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT83NGA*	R407C	A/C	N/A	5′
KT85ZGA*	R410A	A/C	N/A	5′
KT853ZGA*	R410A	A/C	N/A	5′
KT83VGA20*	R22	A/C	20	20′
KT83VCP100*	R22	A/C	100	5′
KT83VCP10010*	R22	A/C	100	10′
KT853ZN*	R410A	Chiller	N/A	5′
KT83L1*	R402A	DSH	N/A	5′
KT83VC*	R22	High Temp	N/A	5′
KT83VZ*	R22	Low Temp	N/A	5′

Continued on next page

Part No.	Refrigerant Class	Applica-tion	Pressure Limit (psig)	Capillary Length
KT83VZP*	R22	Low Temp	30	5′
KT83JC*	R134a	High Temp	N/A	5′
KT83SZ*	R404A	Low Temp	N/A	5′
KT83SC/PC*	R404A/R507	High Temp	N/A	5′
KT83SZP*	R404A	Low Temp	45	5′

ELECTRONIC EXPANSION VALVE


034G4211

ELECTRONIC EXPANSION VALVE TYPE ETS 12.5 - ETS 100

ETS is a series of electric expansion valves for precise liquid injection in evaporators for air conditioning and refrigeration applications.

- Balanced design (ETS 50 – ETS 400) providing bi-flow operation as well as solenoid tight shut-off function in both flow directions.
- ETS 50 and ETS 100 feature improved process and productivity due to waterless brazing i.e soldering without wet cloth for cooling.
- ETS 50 – ETS 400 are all designed with built-in sight glass with moisture indicator.
- Wide range for all common refrigerants: R410A, R407C, R404A, R507, R134a, R22, R1234ze
- Refrigerant temperature range: -40 to 149°F
- Maximum working pressure: 660 psig
- ODF connection
- Cable and connector assemblies as accessories.

		Connection (In.)			
Part No.	Description	Inlet	Outlet	Type	Use with
034G4211*	Type ETS 12.5, Straight	7/8	7/8	ODF	R410A, R407C, R404A, R507, R134a, R22,R1234ze

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ELECTRONIC EXPANSION VALVE



068F5212

ELECTRONIC EXPANSION VALVE AKV

AKV 10P and AKV10PS are electric operated expansion valves designed for refrigerating plants. The AKV 10P and AKV 10PS valves are normally controlled by a controller from the Danfoss range of ADAP- KOOL® controllers that ensure precise liquid injection into evaporators. The valves enable optimum utilization of the evaporator, increased energy efficiency, COP and improved overall system performance while being designed for use with a wide variety of refrigerants. Soft pulse operation provides for a low noise valve.

		Connection (In.)		
Part No.	Description	Inlet	Outlet	Type
068F5212*	AKV 10-2 Valve, Angle	1/2	3/8	ODF
068F5213*	AKV 10-3 Valve, Angle	1/2	3/8	ODF
068F5214*	AKV 10-4 Valve, Angle	1/2	3/8	ODF
068F5215*	AKV 10-5 Valve, Angle	1/2	3/8	ODF
068F5216*	AKV 10-6 Valve, Angle	1/2	3/8	ODF
068F5217*	AKV 10-7 Valve, Angle	1/2	5/8	ODF
068F5035*	AKV 15-1 Valve, Straight	3/4	3/4	ODF
068F5036*	AKV 15-2 Valve, Straight	3/4	3/4	ODF



068F5283

ORIFICE KIT, AKV/AKVH SERIES

Spare part kits for AKV/AKVH valves. Each kit contains items required for servicing of the valves, such as piston assemblies, springs, gaskets, orifices and filters

Part No.	Description	Use with
068F5283	Use with AKV/AKVH 10 - 0/1/2/3	AKV/AKVH 10 - 0/1/2/3
068F5284	Use with AKV/AKVH 10 - 4/5/6	AKV/AKVH 10 - 4/5/6



805194

CABLE ASSEMBLY FOR SERA TO SERD

Part No.	Description	Cable Length
805194*	Cable Assembly for SERA to SERD	10′
805195*	Cable Assembly for SERA to SERD	20′



ESX24B5S

ELECTRONIC STEPPER

Designed for compatibility with all current halocarbon refrigerants, including CFCs, HCFCs and HFCs. For air conditioning and heat pump uni-directional applications only!! The ESX is an electronically operated, unipolar step motor flow control valve, intended for the precise control of liquid refrigerant flow. Synchronized signals to the motor provide discrete angular movement, which is translated into precise linear positioning of the valve pin. Valve pins and ports are uniquely characterized to provide improved flow resolution and performance. ESX valves have an operating stroke of 0.104 inches and 500 steps of control. Each step translates into 0.0002 inches. When used with one of the Sporlan controllers, ESX valves yield unsurpassed accuracy in resolution of flow and repeatability of position.

	Connection				
Part No.	Inlet	Outlet	Orifice Size	Overall Height (In.)	Cable Length
ESX24B5S*	3/8	1/2	2.4 mm	4.44	60″



MTW95

MODULATING 3-WAY VALVE

Allows control of refrigerant flow through two outlet ports. Two valve pistons are attached to a connecting rod and also to the stepper motor. As the MTW valve modulates one port opens and the other port closes. The movement of the valve pistons relative to the two ports is inversely proportional.

- Improved performance from modulated control
- Reduction in number of modulation valves required per system
- Simplified system piping enables piping material cost reduction
- Reduced install time enables labor cost reduction
- Single actuator reduces control and wiring complexity
- Utilizes standard 42mm stepper motor
- 6,386 steps of resolution
- 75 ? bipolar stepper motor
- 160 mA per winding
- Bi-sealing piston assembly
- Compatible with the Sporlan Kelvin II Series valve controllers

	Connection Size (In.)		
Part No.	Inlet	Outlet	Overall Height (In.)
MTW95*	5/8	5/8	6.71
MTW97*	7/8	7/8	6.71

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



SER610S-3X3

ELECTRONIC STEPPER

Designed for compatibility with all current halocarbon refrigerants, including CFCs, HCFCs and HFCs. The SER is an electronically operated step motor flow control valve, intended for the precise control of liquid refrigerant flow. Synchronized signals to the motor provide discrete angular movement, which is translated into precise linear positioning of the valve pin. Valve pins and ports are uniquely characterized to provide improved flow resolution and performance.

SER valves have an operating stroke of 0.189 inches and 1596 steps of control. Each step translates into 0.00012 inches. When used with one of the Sporlan controllers, SER valves yield unsurpassed accuracy in resolution of flow and repeatability of position.

SER valves are suitable for liquid or hot gas bypass service

- Total power consumption: < 2.8 watts (200 steps per second)
- Working pressure: 700 psig
- MOPD: 500 psig
- Operating ambient temperature range: -50°F to 155°F (temperatures of up to 250°F may be used for dehydration)

		Connection		
Part No.	Nominal Tons	Inlet	Outlet	Cable Length
SER610S-3X3*	6	3/8	3/8	120″
SER610S-4X5*	6	1/2	5/8	120″
SER610S-4X4*	6	1/2	1/2	120″
SER1110S-4X5*	11	1/2	5/8	120″



TC26

CAPILLARY TUBING

Commercial tolerance ±.001". Plug-drawn, sealed and dehydrated soft copper tubing.

Part No.	ID (In.)	OD (In.)	Length (Ft.)
TC26*	0.026	.072	100.0
TC26-16*	0.026	.072	16.0
TC31*	0.031	.083	100.0
TC31-12*	0.031	.083	12.0
TC3612*	0.036	.087	12.0
TC36*	0.036	.087	100.0
TC42*	0.042	.093	100.0
TC4212*	0.042	.093	12.0
TC44*	0.044	.109	100.0
TC49-11*	0.049	.099	11.0
TC49*	0.049	.099	100.0
TC50*	0.050	.114	100.0
TC54*	0.054	.106	100.0
TC55*	0.055	.125	100.0
TC59*	0.059	.112	100.0
TC64*	0.064	.125	100.0
TC7012*	0.070	.125	12.0
TC75-9*	0.075	.125	9.0
TC80*	0.080	.145	100.0
TC85-9*	0.085	.145	9.0
TC70	0.070	.125	100.0

REFRIGERANT FLOW CONTROL



BC5

CAPILLARY TUBE

Part No.	ID (In.)	OD (In.)	Length (Ft.)
BC5	0.028	0.071	10.0
BC5100	0.028	0.071	100.0
BC1	0.031	0.081	10.0
BC1100	0.031	0.081	100.0
BC2	0.040	0.093	12.0
BC2100	0.040	0.093	100.0
BC3	0.052	0.093	12.0
BC3100	0.052	0.093	100.0
BC4	0.064	0.125	12.0
BC4100	0.064	0.125	100.0

REFRIGERANT DISTRIBUTOR



D2623-5/16

ODM

- First 4 digits indicate distributor model
- Connection: OD male x OD female

Part No.	Available Nb. of Outlets	Outlet Size (In.)	Overall Length (In.)	Connection Size (In.)	Nozzle Type	Use with
D2623-5/16*	3	5/16	2.44	1/2	I	Valves (B)BI, EBF, E(B)Q, EF, EG, FB, RC, SBF, S(B)Q
D2625-1/4*	5	1/4	2.44	1/2	L	Valves (B)BI, EBF, E(B)Q, EF, EG, FB, RC, SBF, S(B)Q
D2626-1/4*	6	1/4	2.44	1/2	L	Valves (B)BI, EBF, E(B)Q, EF, EG, FB, RC, SBF, S(B)Q
11138-1/4*	8	1/4	1.78	7/8	G	Valves (B)BI, EBS, E(B)Q, ER, O, R, S
111612-1/4*	12	1/4	2.44	1 1/8	E	Valves EBS, O, S

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT DISTRIBUTOR


16052-1/4

FEMALE FLARE

- First 4 digits indicate distributor model
- Connection type: female flare

Part No.	Available Nb. of Outlets	Outlet Size (In.)	Overall Length (In.)	Connec-tion Size (In.)	Nozzle Type	Use with
16052-1/4*	2	1/4	2.50	1/2	L	Valves G, C
16053-1/4*	3	1/4	2.50	1/2	L	Valves G, C
16054-1/4*	4	1/4	2.50	1/2	L	Valves G, C
16055-3/16*	5	3/16	2.50	1/2	L	Valves G, C

SOLENOID VALVE, SPORLAN


SPW0

PULSE WIDTH MODULATION VALVE - SPW SERIES

The Sporlan SPW line of electric expansion valves uses pulse width modulation (PWM) technology to control refrigerant flow in direct expansion refrigeration systems. The valve's duty cycle is varied based on measured evaporator superheat. Typical controllers monitor superheat and vary the duty cycle across a 6 second interval. Sporlan's Pulse Width Modulation Valves are rated at 100% duty cycle, no reserve capacity. Pulse Width Modulation Valves are typically sized between 50% and 85% duty cycle. This allows additional capacity for pulldown at start-up and after defrost. Further consideration should be given to the liquid line size to avoid excessive liquid hammer. Liquid line velocity should not exceed 3 ft/second. The SPW valve family offers 8 port sizes to cover a wide range of evaporator loads.

		Connection		
Part No.	Port Size (In.)	Size (In.)	Type	Comments
SPW0*	0/32	3X4	ODF	Less Coil
SPW1*	1/32	3X4	ODF	Less Coil
SPW3*	3/32	3X4	ODF	Less Coil
SPW2*	2/32	3X4	ODF	Less Coil
SPW4*	4/32	3X4	ODF	Less Coil
SPW5*	5/32	3X4	ODF	Less Coil
SPW7*	7/32	3X4	ODF	Less Coil


A3F1

A3, E3, E5 SERIES

Types A3 and E3 series are hermetic, direct-acting type solenoid valves primarily for refrigeration and air conditioning applications. The flow rate of the E3 and A3 are identical, therefore, the E3 may be freely substituted for the A3. The E5 series are compact solenoid valves with pilot operated disc construction and are rated at 2.8 tons R-22 at 3 psi pressure drop vs. 1.6 for the A3S1. These valves may be mounted horizontally, on their side or in a vertical line. The Types E3 and E5 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E3" and "E5" series can be installed using either low or no silver content brazing alloy.

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model
A3F1*	0.010	1/4	MFL	2.38	A	MKC1
A3P1*	0.010	3/8	FPT	1.88	A	MKC1
E3S120*	0.010	1/4	ODF	4.63	E	MKC1
E3S140*	0.010	1/2	ODF	4.63	E	MKC1
E5S140*	0.150	1/2	ODF	4.63	E	MKC1
E3S130*	0.010	3/8	ODF	4.56	Extended Solder Ends	MKC1


B10F2

B10, E10 SERIES

Types B10 and E10 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. They are suitable for suction line service because very low pressure differential, 1 psi, is required for full operation. The Type E10 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E10" series can be installed without disassembly using either low or no silver content brazing alloy.

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model
B10F2*	5/16	1/2	MFL	3.25	B	MKC2
MB10F2*	5/16	1/2	MFL	3.25	Manual Lift Stem	MKC2
OE10S240HP*	5/16	1/2	ODF	5.00	O, E	MKC2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


B14P2

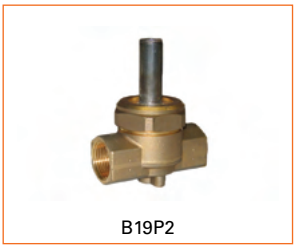
B14, E14 SERIES

Types B14 and E14 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. These valves are also suitable for suction line service because very low pressure differential, 1 psi, is required for full operation.

The Type E14 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E14" series can be installed without disassembly using either low or no silver content brazing alloy.

- Port size: 7/16"
- Liquid capacity: R22, 3 lb. ?P, 40°F evaporator, 15.8 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
B14P2*	7/16	1/2	FPT	2.41	B	MKC2
ME14S270*	7/16	7/8	ODF	8.00	M,E	MKC2


B19P2

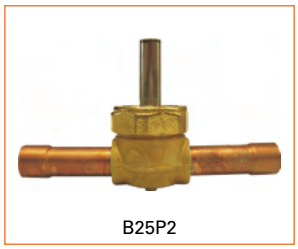
B19, E19 SERIES

Types B19 and E19 Series are pilot operated solenoid valves for refrigeration and air conditioning applications. They are suitable for suction service because very low pressure differential, 1 psi, is required for full operation.

These valves may be mounted horizontally, on their side or in a vertical line. The Type E19 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E19" series can be installed without disassembly using either low or no silver content brazing alloy.

- Port size: 19/32"
- Liquid capacity: R22, 3 lb. ?P, 40°F evap, 24.2 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
B19P2*	19/32	3/4	FPT	3.00	B	MKC2
OE19S270*	19/32	7/8	ODF	7.13	O, E	OMKC2


B25P2

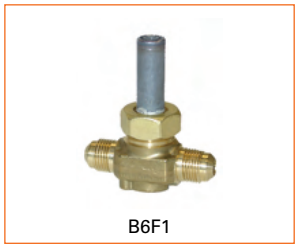
B25, E25 SERIES

Types B25 and E25 Series are pilot operated solenoid valves for refrigeration and air conditioning applications. They are suitable for suction service because very low pressure differential, 1 psi, is required for full operation.

These valves may be mounted horizontally, on their side or in a vertical line. The Type E25 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E25" series can be installed without disassembly using either low or no silver content brazing alloy.

- Port size: 25/32"
- Liquid capacity: R22, 3 lb. ?P, 40°F evaporator, 41.4 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model
B25P2*	25/32	1	FPT	3.50	B	MKC2
OE25S270*	25/32	7/8	ODF	7.50	Normally Open, Extended Solder Ends	OMKC2
OE25S290*	25/32	1 1/8	ODF	8.50	O, E	OMKC2


B6F1

B6, E6 SERIES

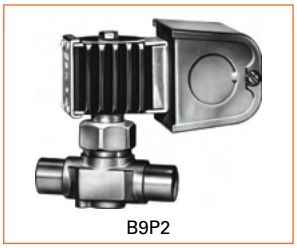
Types B6 and E6 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. They are suitable for suction line service because very low pressure differential, 1 psi, is required for full operation.

- Safe working pressure: 500 psi
- Port size: 3/16"
- Liquid capacity: R22, 3 lb. ?P, 40°F evaporator, 4.9 tons
- MOPD: 300 psi AC, 175 psi DC
- Use MKC1 coil for normally closed valve
- Overall length is less coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
B6F1*	3/16	3/8	MFL	2.50	B	MKC1
B6P1*	3/16	3/8	FPT	1.94	B	MKC1
MB6F1*	3/16	3/8	MFL	2.50	M	MKC1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID VALVE, SPORLAN


B9P2

B9, E9 SERIES

Types B9 and E9 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. These valves are also suitable for suction line service because very low pressure differential, 1 psi, is required for full operation.

The Type E9 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E9" series can be installed without disassembly using either low or no silver content brazing alloy.

- Port size: 9/32"
- Safe working pressure: 500 psi
- Liquid capacity: R22, 3 lb. ?P, 40°F evaporator, 8.0 tons
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
B9P2*	9/32	3/8	FPT	2.06	B	MKC2
E9S230*	9/32	3/8	ODF	4.63	E	MKC2
ME9S250*	9/32	5/8	ODF	6.50	M,E	MKC2
OE9S230*	9/32	3/8	ODF	4.63	O, E	OMKC2
OE9S240*	9/32	1/2	ODF	5.00	O, E	OMKC2
OE9S250*	9/32	5/8	ODF	6.50	O, E	OMKC2


CME14S250

CHECK VALVE SOLENOID

- Designed to replace a liquid line solenoid in parallel with a reverse flow check valve
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
CME14S250*	7/16	5/8	ODF	6.88	M,E	MKC2
CME10S250*	5/16	5/8	ODF	6.50	M,E	MKC2


E10S240HP

R410A SERVICE

Extended solder ends

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
E10S240HP*	10/32	1/2	ODF	5.00	E	MKC2
E10S250HP*	10/32	5/8	ODF	6.50	E	MKC2
E14S250HP*	14/32	5/8	ODF	6.88	E	MKC2
E14S270HP*	14/32	7/8	ODF	6.88	E	MKC2
E19S250HP*	19/32	5/8	ODF	6.88	E	MKC2
E19S270HP*	19/32	7/8	ODF	7.13	E	MKC2
E19S290HP*[1]	19/32	1 1/8	ODF	6.88	E	MKC2
E25S270HP*	25/32	7/8	ODF	7.50	E	MKC2
E25S290HP*	25/32	1 1/8	ODF	8.50	E	MKC2
E2S130HP*	2/32	3/8	ODF	4.63	E	MKC1
E35S1110HP*	35/32	1 3/8	ODF	11.06	E	MKC1
E43S1130HP*	43/32	1 5/8	ODF	11.06	E	MKC1
E5S120HP*	5/32	1/4	ODF	4.56	E	MKC1
E5S130HP*	5/32	3/8	ODF	4.56	E	MKC1
E6S130HP*	6/32	3/8	ODF	4.63	E	MKC1
E6S140HP*	6/32	1/2	ODF	5.00	E	MKC1
E9S230HP*	9/32	3/8	ODF	4.63	E	MKC2
E9S240HP*	9/32	1/2	ODF	5.00	E	MKC2
E9S250HP*	9/32	5/8	ODF	6.50	E	MKC2
ME10S240HP*[1]	10/32	1/2	ODF	5.00	M,E	MKC2
ME10S250HP*[1]	10/32	5/8	ODF	6.50	M,E	MKC2
ME14S250HP*[1]	14/32	5/8	ODF	6.88	M,E	MKC2
ME14S270HP*[1]	14/32	7/8	ODF	6.88	M,E	MKC2
ME19S250HP*[1]	19/32	5/8	ODF	6.88	M,E	MKC2
ME19S270HP*[1]	19/32	7/8	ODF	7.13	M,E	MKC2
ME19S290HP*[1]	19/32	1 1/8	ODF	6.88	M,E	MKC2
ME25S270HP*[1]	25/32	7/8	ODF	7.50	M,E	MKC2
ME25S290HP*[1]	25/32	1 1/8	ODF	8.50	M,E	MKC2
ME5S130HP*[1]	5/32	3/8	ODF	4.56	M,E	MKC1
ME6S130HP*[1]	6/32	3/8	ODF	4.63	M,E	MKC1
ME6S140HP*[1]	6/32	1/2	ODF	5.00	M,E	MKC1
ME9S230HP*[1]	9/32	3/8	ODF	4.63	M,E	MKC2
ME9S240HP*[1]	9/32	1/2	ODF	5.00	M,E	MKC2

1 Manual lift stem

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ME35S190HP

R410A SERVICE

Constructed for service allowing the higher working pressures of R410A.
The E34/E35 Series may be mounted horizontal, on side, or in a vertical line.

- Liquid capacity: R410A, 3 lb. ?P, 40°F evaporator, 100°F liquid
- Safe working pressure: 700 psi
- MOPD: 450 psi AC
- Use MKC2 coil for normally closed valve (M)E42 Series
- Use MKC1 coil for normally closed valve (M)E35 Series

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
ME35S190HP*	1	1 1/8	ODF	10.06	M,E	MKC1
E35S190HP*	1	1 1/8	ODF	10.06	E	MKC1
ME35S1110HP*	1	1 3/8	ODF	11.06	M,E	MKC1


ME43S1130HP

LARGE CAPACITY

May be mounted horizontal, on side, or in a vertical line.

- Liquid capacity: R22, 3 lb. ?P, 40°F evaporator
- Safe working pressure: 500 psi
- MOPD: 300 psi AC (E35, E42), 250 psi DC (E35), 275 psi DC (OE42)
- MOPD: 450 psi AC (E43-1130), 400 psi AC (E43-1170), 400 psi DC (E43)
- Use MKC2 normally closed valve/OMKC2 coil normally open valve for E34, E42 Series
- Use MKC1 normally closed valve/OMKC1 coil normally open valve for E35, E43 Series

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
ME43S1130HP*	1 5/16	1 5/8	ODF	11.06	M,E	MKC1
ME43S1170HP*	1 5/16	2 1/8	ODF	11.06	M,E	MKC1
OE35S1110*	1	1 3/8	ODF	11.06	O, E	OMKC1
OE35S190*	1	1 1/8	ODF	10.06	M,E	OMKC1
OE43S1130HP*	1 5/16	1 5/8	ODF	11.06	O, E	MKC1
OE43S1170HP*	1 5/16	2 1/8	ODF	11.06	O,E	MKC1


BR184P1

INDUSTRIAL DIAPHRAGM

Ideal for water, most refrigerant oils, air lines to chucking devices, steam lines, etc. These valves may be mounted horizontally, on their side, or on a vertical line. These valves are tight sealing in applications of normal differential pressure. Use teflon diaphragm type valves for high temperature and steam applications over 5 psig but do not exceed 10 psig. For applications where differential pressures in the closed position are below 5 psi, it is recommended that a Buna-N diaphragm be used in the place of the standard teflon diaphragm. In certain areas of the country, particularly hard water localities, the integral brass seats in the solenoid valves may deteriorate very rapidly. This problem is solved by using a stainless steel seat insert in place of the usual brass seat.

- For air, water, steam, light oil
- Use MKC1 coil
- Connection: FPT x FPT

	Connection					
Part No.	Size (In.)	Type	Port Size (In.)	Dia-phragm	Seat Material	Use Coil Model
BR184P1*	1/2	FPT x FPT	9/16	Buna-N	Brass	MKC1
BR246P1*	3/4	FPT x FPT	3/4	Buna-N	Brass	MKC1
R184P1*	1/2	FPT x FPT	9/16	Teflon	Brass	MKC1
R246P1*	3/4	FPT x FPT	3/4	Teflon	Brass	MKC1


W3P1

INDUSTRIAL DISC

Use disc type valves for high temperature and steam applications up to 25 psig. In certain areas of the country, particularly hard water localities, the integral brass seats in the solenoid valves may deteriorate very rapidly. This problem is solved by using a stainless steel seat insert in the brass body in place of the usual brass seat. Valves from the W6 Series through the W25 Series have this feature. These valves are also equipped with teflon seating materials for long life. The W14 Series through the W25 Series are also equipped with a spring on top of the disc to assist in valve closing.

- Connection: FPT x FPT

	Connection				
Part No.	Size (In.)	Type	Port Size (In.)	Seat Ma-terial	Use Coil Model
W3P1*	1/4	FPT x FPT	0.109	Brass	MKC1
W14P2*	1/2	FPT x FPT	7/16	Stainless	MKC2
W19P2*	3/4	FPT x FPT	19/32	Stainless	MKC2
W25P2*	1	FPT x FPT	25/32	Stainless	MKC2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID VALVE, SPORLAN


XRN

RAPID CYCLE

Sporlan rapid cycle solenoid valves are designed for applications that require a solenoid valve to cycle frequently in a short period to maintain very close temperatures. An environmental test chamber using a mechanical refrigeration system is the most common application of rapid cycle solenoid valves.

- Normally closed valve
- Connection: ODF x ODF

Part No.	Connection Size (In.)	Modification Of	Use Coil Model	Comments
XRN*	1/2	B9S2	OMKC2	B
XRN1*	3/8	E9S230	OMKC2	E
XRM*	5/8	B14S2	OMKC2	B
XPO3*	7/8	E19S270	OMKC2	E


XSP2S130

SECONDARY COOLANT CO2, XSP SERIES

- Direct Acting, Hermetic Valves
  - No gaskets eliminate source for external leaks
  - Tighter seating at lower pressure differentials
- Mount Horizontally (for best performance, it is recommended to mount valve with coil in vertical position or at 45° angle)
- Extended Solder Type Connections
- Can be installed using either low or no silver content brazing alloy
- MKC-1 Coil, Class F
- Sporlan Catch-All® Filter-Drier is Recommend Upstream
- Standard connections: ODF x ODF

			Connection			
Part No.	Flow (Cv)	MOPD (psi)	Size (In.)	Type	Port Size (In.)	Overall Length (In.)
XSP2S130*	0.15	300	3/8	ODF	0.062	4.56
XSP3S140*	0.30	100	1/2	ODF	0.101	5.00
XSP5S140*	0.48	50	1/2	ODF	0.150	5.00


S8D7B

HEAT RECLAIM

- Capacity: R22, 2 lb. pressure drop, 0°F evaporator, 100°F condensing isotropic compression +50°F, 25°F superheat suction, de-energized mode, two condenser mode in SC models
- Use B type to eliminate N.O. solenoid to suction for systems requiring reclaim condenser pump out
- Use SC type for split condenser applications
- Use MKC1 coil
- B5D5B brass body replaces steel 5D5B

		Connection					
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Overall Height (In.)	Use Coil Model	Capac-ity Tons (R22)
S8D7B*	3/4	7/8	ODF	6.88	10.00	MKC1	9.9
S8D7C*	3/4	7/8	ODF	6.88	10.00	MKC1	9.9
S8D9B*	3/4	1 1/8	ODF	6.88	10.06	MKC1	9.9
S8D9B-SC*	3/4	1 1/8	ODF	6.88	10.31	MKC1	14.5
S12D11B*	1 1/4	1 3/8	ODF	8.38	13.57	MKC1	28.5
S12D11B-SC*	1 1/4	1 3/8	ODF	8.38	13.84	MKC1	31.1
S12D13B*	1 1/4	1 5/8	ODF	8.38	13.57	MKC1	28.5
S12D13B-SC*	1 1/4	1 5/8	ODF	8.38	13.84	MKC1	31.1
S16D17B*	2	2 1/8	ODF	10.94	17.47	MKC1	68.7
S16D17B-SC*	2	2 1/8	ODF	10.94	17.71	MKC1	87.1


S8D9B-HP

HEAT RECLAIM, R410A

- Capacity: R410A, 2 lb. pressure drop, 100°F condensing isotropic compression plus 50°F, 30°F evaporator plus 25°F superheat suction, de-energized mode
- Use B type to eliminate N.O. solenoid to suction for systems requiring reclaim condenser pump out
- MOPD: 400 psig
- Maximum rated pressure: 650 psig
- Use MKC1 coil

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Overall Height (In.)	Use Coil Model
S8D9B-HP*	3/4	1 1/8	ODF	6.88	10.06	MKC1
SB5D5B*	5/8	5/8	ODF	6.44	9.47	MKC1
S12D11B-HP*	1 1/4	1 3/8	ODF	8.38	13.57	MKC1
S12D13B-HP*	1 1/4	1 5/8	ODF	8.38	13.57	MKC1

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10G711B

HOT GAS DEFROST

These 3-way valves are used for gas defrost only. One or more compressors are used to provide refrigeration for a multiple of refrigerated cases, both medium and low temperature. The 3-way valves are used to control the flow of gas off a discharge header to the various cases or suction gas from the cases to the suction header. The 3-way valve body is take-apart construction, as is the pilot valve, and both may be completely serviced in the field. Since the pilot valve is 2-way and normally closed, the main valve failure mode from electrical failure or coil failure will be in the refrigeration mode. It should be remembered when applying these valves that the flow of discharge gas is completely blocked off when the pilot valve is de-energized. Therefore these valves can only be applied off a discharge header and not in the main discharge line.

- Connection size: 7/8" discharge, 1 3/8" suction, evaporator
- MOPD: 300 psi
- Safe working pressure: 500 psi
- Use MKC1 coil

Part No.	Setup	Overall Length (In.)	Overall Height (In.)
10G711B*	Suction Upper	9.90	9.79
10G711C*	Discharge Upper	9.90	10.62


MKC124V

MKC COIL

- MKC coils for normally closed solenoid valves

Part No.	Description	Ship Wgt (Lbs.)
MKC124V*	Solenoid valve coil, for normally closed valves, 24 vac	0.56
MKC1120V*	Solenoid valve coil, for normally closed valves, 120 vac	0.56
MKC1120VCB*	Solenoid valve coil with conduit boss, for normally closed valves, 120 vac	0.46
MKC1240V*	Solenoid valve coil, for normally closed valves, 208/240 vac	0.54
MKC1DUAL*	Solenoid valve coil, for normally closed valves, 120/208/240 vac	0.56
MKC112VDC*	Solenoid valve coil, for normally closed valves, 12 vdc	0.56
MKC224V*	Solenoid valve coil, for normally closed valves, 24 vac	0.88
MKC224VCB*	Solenoid valve coil, for normally closed valves, 24 vac, conduit boss	0.80
MKC2120V*	Solenoid valve coil, for normally closed valves, 120 vac	0.90
MKC2120VCB*	Solenoid valve coil, for normally closed valves, 120 vac, conduit boss	0.80
MKC2DUAL*	Solenoid valve coil, for normally closed valves, 120/208/240 vac	0.88

Continued on next page

Part No.	Description	Ship Wgt (Lbs.)
MKC212VDC*	Solenoid valve coil, for normally closed valves, 24 vdc	0.92
MKC264VDC*	Solenoid valve coil, for normally closed valves, 64 vdc	0.92
MKC2240V*	Solenoid valve coil, for normally closed valves, 208/240 vac	0.88


OMKC1240VCB

OMKC COIL

- OMKC coils for normally open or rapid cycle solenoid valves

Part No.	Description	Ship Wgt (Lbs.)
OMKC1240VCB*	Solenoid valve coil, with conduit boss, for normally open or rapid cycle valves, 208/240 vac	0.46
OMKC224V*	Solenoid valve coil, for normally open or rapid cycle valves, 24 vac	0.88
OMKC224VDC*	Solenoid valve coil, for normally open or rapid cycle valves, 24 vdc	0.94
OMKC2120V*	Solenoid valve coil, for normally open or rapid cycle valves, 120 vdc	0.88
OMKC2240V*	Solenoid valve coil, for normally open or rapid cycle valves, 208/240 vac	0.88
OMKC2DUAL*	Solenoid valve coil, for normally open or rapid cycle valves, 120/208/240 vac	0.86

SOLENOID VALVE, EMERSON


100RB2F2

100RB SERIES

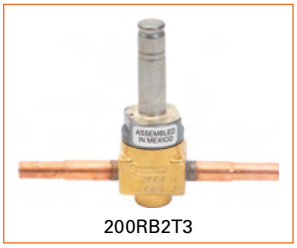
Emerson 100RB Series solenoid valves are direct-acting, 2-way, normally closed valves. The 100RB is ideal for liquid or discharge gas refrigerant service.

- One coil fits all valve sizes
- Maximum differential pressure: 300 psig
- Maximum working pressure: 500 psig
- Port size: 1/8"
- Capacity: 1.27 tons, R22, liquid, 3 psi ?P, 40°F evaporator
- Use AM, ASC2, DM coil

Part No.	Port Size (In.)	Connection Size (In.)	Connection Type	Overall Length (In.)	Com-ments	Use Coil Model
100RB2F2*	1/8	1/4	MFL	2.88	E	AM, ASC2, DM
100RB2S2*	1/8	1/4	ODF	4.63	E	AM, ASC2, DM
100RB2S3*	1/8	3/8	ODF	4.63	E	AM, ASC2, DM

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID VALVE, EMERSON


200RB2T3

200RB2 SERIES

Features

- Single coil family fits all valve sizes
- Extended ends for easy installation (standard)
- Available in 6 port sizes
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)
- Port size: 1/8”
- Capacity: 3.1 tons R22, liquid, 3 psi ?P, 40°F evaporator
- Coil not included

COPELAND

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB2T3*	3/16	3/8	ODF	4.63	E	AM, ASC2, DM


200RB3T3

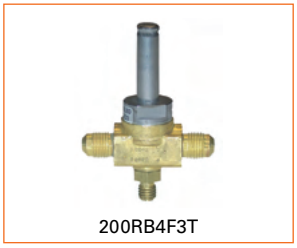
200RB3 SERIES

Features

- Single coil family fits all valve sizes
- Extended ends for easy installation (standard)
- Available in 6 port sizes
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)

COPELAND

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB3T3*	3/16	3/8	ODF	4.63	E	AM, ASC2, DM
200RB3T3T*	3/16	3/8	ODF	4.63	E,T	AM, ASC2, DM
200RB3T4*	3/16	1/2	ODF	4.63	E	AM, ASC2, DM
200RB3T4M*	3/16	1/2	ODF	4.63	E, M	AM, ASC2, DM


200RB4F3T

200RB4 SERIES

Features

- Single coil family fits all valve size
- Extended ends for easy installation (standard)
- Available in 6 port size
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)
- Port size: 1/4”
- Capacity:5.6 tons, R22, liquid, 3 psi ?P, 40°F evaporator

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB4F3T*	1/4	3/8	MFL	2.94	T	AM, ASC2, DM
200RB4T3T*	1/4	3/8	ODF	4.63	E	AM, ASC2, DM
200RB4T4*	1/4	1/2	ODF	5.00	E	AM, ASC2, DM
200RB4T4T*	1/4	1/2	ODF	5.00	T, E	AM, ASC2, DM
200RB4T4M*	1/4	1/2	ODF	5.00	M,E	AM, ASC2, DM


200RB5S4T

200RB5 SERIES

Features

- Single coil family fits all valve sizes
- Extended ends for easy installation (standard)
- Available in 6 port sizes
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)
- Port size: 5/16”
- Capacity: 8.2 tons, R22, liquid, 3 psi ?P, 40°F evaporator

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB5S4T*	5/16	1/2	ODF	2.38	T	AM, ASC2, DM
200RB5T4M*	5/16	1/2	ODF	5.00	M,E	AM, ASC2, DM
200RB5T5M*	5/16	5/8	ODF	6.50	M,E	AM, ASC2, DM

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


200RB6F4T

200RB6 SERIES

Features

- Single coil family fits all valve sizes
- Extended ends for easy installation (standard)
- Available in 6 port sizes
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)
- Port size: 3/8”
- Capacity: 10.0 tons, R22, liquid, 3 psi ?P, 40°F evaporator

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB6F4T*	3/8	1/2	MFL	3.31	T	AM, ASC2, DM
200RB6S5T*	3/8	5/8	ODF	2.38	T	AM, ASC2, DM
200RB6T5*	3/8	5/8	ODF	6.50	E	AM, ASC2, DM
200RB6T5T*	3/8	5/8	ODF	6.50	T, E	AM, ASC2, DM
200RB6S4M*	3/8	1/2	ODF	2.38	M	AM, ASC2, DM
200RB6S5M*	3/8	5/8	ODF	2.38	M	AM, ASC2, DM


200RB7T5M

200RB7 SERIES

Features

- Single coil family fits all valve sizes
- Extended ends for easy installation (standard)
- Available in 6 port sizes
- Optional manual stem or mounting stud
- Bi-Directional operation either factory assembled or convert with kit KS-30293 (except 200RB 7 & 9)
- Field serviceable parts available
- Compatible with all common A1, A2L, and A3 class refrigerants (refer to the capacity tables)
- Port size: 7/16”
- Capacity: 15.6 tons, R22, liquid, 3 psi ?P, 40°F evaporator

COPELAND

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Com-ments	Use Coil Model
200RB7T5M*	7/16	5/8	ODF	6.88	E,M	AM, ASC2, DM


540RA9T7T

540RA SERIES, NORMALLY OPEN

Emerson 540RA Series solenoid valves are 2-way, normally open diaphragm valves.

Features:

- Capacity: R22 liquid line, 3 psi ?P, 40°F evaporator
- Maximum differential pressure: 300 psig
- Use AM, ASC2, DM coil
- Connection type: ODS
- Extended ends for easy installation
- Long-life molded coils
- Low pressure differential required for full opening
- Can be brazed into the line without disassembly
- PTFE diaphragm

COPELAND

			Connection			
Part No.	Port Size (In.)	Capacity (Tons)	Size (In.)	Type	Overall Length (In.)	Use Coil Model
540RA9T7T*	9/16	30.5	7/8	ODS	7.13	AM, ASC2, DM


AMG24V

COIL, JUNCTION BOX

- Standard coil
- Junction box
- 6-In. lead

EMERSON

Part No.	Description	Ship Wgt (Lbs.)
AMG24V*	Solenoid coil, junction box, 24 vac	0.80
AMG24VDC*	Solenoid coil, junction box, 24 vdc	0.50
AMG120V*	Solenoid coil, junction box, 120 vac	0.63
AMG240V*	Solenoid coil, junction box, 240 vac	0.55
AMG480V*	Solenoid coil, junction box, 480 vac	0.50
AMGDUAL*	Solenoid coil, junction box, 120/240 vac	0.85


AMC120V

COIL, CONDUIT

- Conduit boss coil
- 1/2-In. conduit
- 18-In. lead

EMERSON

Part No.	Description	Ship Wgt (Lbs.)
AMC120V*	Solenoid coil, conduit, 120 vac	0.70
AMC240V*	Solenoid coil, conduit, 240 vac	0.70

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID VALVE, EMERSON



AMF240V

COIL, OPEN FRAME

- Open frame
- 18-In. lead

Part No.	Description	Ship Wgt (Lbs.)
AMF240V*	Solenoid coil, open frame, 240 vac	0.49

SOLENOID VALVE, DANFOSS



018F4100

COIL, JUNCTION BOX

General Purpose coils for 13.5 mm armature, 17.5W ac, BTxxxCS Series

- Junction box
- Ambient temperature: Up to 120°F
- IP 32 / NEMA 2
- For UL listed valves

Part No.	Description	Ship Wgt (Lbs.)
018F4100	Coil, junction box, 24 volt, EVR solenoid	0.85
018F4110	Coil, junction box, 110 volt, EVR solenoid	0.90
018F4120	Coil, junction box, 240 volt, EVR solenoid	0.85



018F4104

COIL, CONDUIT BOSS

BJ and BX are a series of coils with UL approval. The coils are designed to be used with Danfoss electric expansion and solenoid valves.

- High reliability and long lifetime
- Easy mounting and dismounting
- UL approved coil range
- Covering standard voltage and frequency
- Two electrical connection versions

Part No.	Description	Ship Wgt (Lbs.)
018F4104	Coil, Conduit Boss NEMA 4, 24 Vac, 98 In. Wire	0.90
018F4112	Coil, conduit boss, 110 volt, EVR solenoid	0.75
018F4115	Coil, Conduit Boss NEMA 4, 110-120 Vac, 98 In. Wire	0.95
018F4122	Coil, conduit boss, 208-240 volt, EVR solenoid	0.65



018F7663

COIL, DIN SPADE

BYxxxCS, High performance UL recognised coils
Compact coil for valve range B, 13.5 mm armature, 14W ac

- Traditional fastening or clip-on system for fast, easy fitting and removal
- Ambient temperature: Up to +50°C / +120°F
- IP 65 / NEMA 4
- For UL recognised valves

Part No.	Description	Ship Wgt (Lbs.)
018F7663	Coil, DIN spade, 120 volt, BY type	0.60
018F7658	Coil, DIN spade, 208-240 volt, BY type	0.60



032F1157

EVR SOLENOID

EVR is a direct or servo operated solenoid valve suitable for liquid, suction, and hot gas lines with most refrigerants, including flammammable refrigerants.
EVR valves and coils are sold separately.

Features:

- MOPD assumes AC coil, 40 psi less for DC coil (110 psi less for DC EVR20, EVR22)
- 032F8100 series valves are normallly open
- Capacity R22 liquid
- Complete range of solenoid valves for refrigeration, freezing and air conditioning plant
- Supplied in versions normally closed (NC) and normally open (NO) with de-energized coil
- Wide choice of coils for AC and DC
- Suitable for most refrigerants, including flammable refrigerants
- Designed for media temperatures up to 105 °C
- Flare connections up to 5⁄8 in
- Solder connections up to 2 1⁄8 in
- Extended ends on solder versions make the installation easy, eliminating the need to dismantle the valve when soldering in
- Available in flare, solder and flange connection versions

		Connection			
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments
032F1157*	1/8	3/8	ODF	3.90	Not Manual
032F1206*	1/8	1/4	ODF	3.98	Not Manual
032F1204*	1/8	3/8	ODF	4.62	Not Manual
032L7144*	1/4	1/2	ODF	5.00	Manual

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Port Size (In.)	Connection Size (In.)	Connection Type	Overall Length (In.)	Comments
032L7121*	1/4	1/2	ODF	5.00	Not Manual
032L7148*	1/4	1/2	ODF	5.00	Manual
032L1214*	3/8	5/8	ODF	6.42	Not Manual
032L7149*	5/8	5/8	ODF	6.42	Manual
032L1225*	9/16	7/8	ODF	6.85	Not Manual
032L1004*	9/16	7/8	ODF	7.05	Manual
032L7137*	15/16	1 1/8	ODF	8.74	Manual

SOLENOID MAGNET



066019

MAGNET

The Solenoid Multi-Purpose Tool performs three distinct functions:

- It's a magnetic tool that operates the valve without having to energize the coil (up to 300 psi ?P)
- It's a spanner wrench for a 3/8" ratchet drive that enables easier valve disassembly while protecting the enclosing tube (prongs align with collar recesses)
- It's an adjustment tool that quickly opens a valve with a manual stem.

EMERSON

Part No.	Description
066019*	Magnetic Solenoid Opener



018F0091

MAGNETIC SOLENOID OPENER

ENGINEERING TOMORROW Danfoss

Part No.	Description
018F0091	Magnetic Solenoid Opener, Permanent Magnet

SOLENOID REPAIR KIT



KS30386

SOLENOID

200RB repair kits include enclosing tube assembly, plunger spring, plunger assembly, gasket and piston assembly.
240A repair kits include enclosing tube assembly, spring, plunger spring, plunger enclosing tube gasket, hold down spring, diaphragm assembly and pilot gasket.

EMERSON

Part No.	Description	Applicable Valve
KS30386*	Repair Kit	200RD2-200RD6
KS30387*	Bi-Flow Kit	200RD2-6
KS30325*	Repair Kit	240RA20
KS30066*	Manual Opener Kit	240RA9



KSB6/E6HP

B, E SERIES, R410A

- Includes: stem and plunger assembly, disc assembly, enclosing tube gasket, kick off spring, enclosing tube
- For R410A solenoid valves

SPORLAN

Part No.	Applicable Valve
KSB6/E6HP*	(M)B6/(M)E6-HP
KSB9/E9HP*	(M)B9/(M)E9-HP
KSB10/E10HP*	(M)B10/(M)E10-HP
KSB14/E14HP*	(M)B14/(M)E14-HP
KSB19/E19HP*	(M)B19/(M)E19-HP
KSB25/E25HP*	(M)B25/(M)E25-HP



KSCB9

CHECK VALVE SOLENOIDS

- Includes: stem and plunger assembly, disc assembly, enclosing tube gasket, kick off spring, enclosing tube

SPORLAN

Part No.	Applicable Valve
KSCB9*	C(M)B9/C(M)E9
KSCB10*	C(M)B10/C(M)E10
KSCB14*	C(M)B14/C(M)E14

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SOLENOID REPAIR KIT


KSE35

LARGE PORT

• Includes: stem and plunger assembly, piston assembly, enclosing tube O-ring

Part No.	Applicable Valve
KSE35*	(M)E35
KSE35HP*	(M)E35-HP


KSW14

INDUSTRIAL, DISC

• Includes: plunger assembly, enclosing tube O-ring, disc assembly, enclosing tube tetraseal, stem and plunger assembly (W14, W19, W25 only)

Part No.	Applicable Valve
KSW14*	W14
KSW25*	W25


KSBR24

INDUSTRIAL, DIAPHRAGM

• Includes: plunger assembly, diaphragm, enclosing tube tetraseal

Part No.	Applicable Valve
KSBR24*	BR24/KBR24


KSXUP

RAPID CYCLE

• Includes: stem and plunger assembly, disc assembly, enclosing tube assembly, coil housing locknut, spacer ring and cup, tetraseal, nameplate

Part No.	Applicable Valve
KSXUP*	XUP
KSXRM*	XRM
KSXRN*	XRN


KSOE35

LARGE PORT, NORMALLY OPEN

• Includes: upper valve assembly, piston assembly, closing spring, body flange tetraseal, spacer cup and ring, body flange gasket

Part No.	Applicable Valve
KSOE35*	OE35


KS8DB

HEAT RECLAIM

• KS kits include: enclosing tube tetraseal, stem and seat assembly, piston assembly, lower body O-ring
• KE enclosing tube kit includes: enclosing tube assembly, enclosing tube gasket, coil housing screw, body screws

Part No.	Applicable Valve
KS8DB*	8D7B/8D9B
KS12DB*	12D11B/12D13B
KS16DB*	16D17B
KE8D/12D*	8D/12D


032F0181

EVR REPAIR KITS

Includes diaphragm assembly, armature assembly, rubber gasket, screws, torx key, snap fastener, nut

Part No.	Applicable Valve
032F0181	EVR2, EVR3
032F8166	EVR6
032F0185	EVR10

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DISCHARGE BYPASS

1/4" PORT, ADJUSTABLE

Discharge bypass valves open on decrease in suction pressure to maintain a minimum evaporation pressure. The flow to the bypass valve is controlled by a solenoid valve. Discharge valves are preferably piped from the compressor discharge to the evaporator inlet using an auxiliary side connector but can also be piped to the suction line.



ADRS20/80

1/4" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 6.44"
- Valve capacity:
0/80 26°F evaporator, 100°F condensing— 3.45 tons,
0/30 -20°F evaporator, 100°F condensing— 3.63 tons
- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

	Connection		
Part No.	Size (In.)	Pressure Range (psi)	Equalizer
ADRS20/80*	1/2	0 to 80	Internal
ADRSE238*	3/8	0 to 80	1/4 ODF
ADRSE258*	5/8	0 to 80	1/4 ODF
ADRSE2*	1/2	0 to 80	1/4 ODF
ADRSE20/30*	1/2	0 to 30	1/4 ODF



ADRPE3

3/8" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 6.94"
- Connection: ODF
- Valve capacity:
0/80 26°F evaporator, 100°F condensing—6.06 tons
0/30 -20°F evaporator, 100°F condensing—7.23 tons
- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

	Connection		
Part No.	Size (In.)	Pressure Range (psi)	Equalizer
ADRPE3*	5/8	0 to 80	1/4 ODF
ADRPE30/30*	5/8	0 to 30	1/4 ODF



ADRHE658

3/4" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 7.06", width 9.24"
- External equalizer: 1/4 ODF
- Connection: ODF
- Valve capacity:
0/80 26°F evaporator, 100°F condensing-9.58 tons
0/30 -20°F evaporator, 100°F condensing-13.7 tons
- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

	Connection		
Part No.	Size (In.)	Pressure Range (psi)	Equalizer
ADRHE658*	5/8	0 to 80	1/4 ODF
ADRHE6*	7/8	0 to 80	1/4 ODF
ADRHE6118*	1 1/8	0 to 80	1/4 ODF



DRHE655/70AR

REMOTE BULB, ADJUSTABLE, 3/4" PORT

- Adjustable remote bulb model
- Overall height: 4.88", width 9.24"
- External equalizer: 1/4"ODF
- Connection: ODF
- Valve capacity: 55/70 26°F evaporator, 100°F condensing-16.4 tons
- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

	Connection		
Part No.	Size (In.)	Pressure Range (psi)	Equalizer
DRHE655/70AR*	7/8	55 to 70	1/4 ODF



HGBE5-3/8

R410A, ADJUSTABLE

- Adjustable model
- External equalizer: 1/4 ODF
- Connection: ODF
- Capacities are valve capacity based on 6°F evaporator temperature change, discharge temperatures 50°F above isentropic compression, 25°F superheat, 10°F subcooling, R410A

		Connection	
Part No.	Adjustment Range (psi)	Size (In.)	Equalizer
HGBE5-3/8*	95 - 115	3/8	1/4 ODF
HGBE5-1/2*	95 - 115	1/2	1/4 ODF
HGBE5-5/8*	95 - 115	5/8	1/4 ODF
HGBE6-95/115*	95 - 115	7/8	1/4 ODF
HGBE8-7/8*	75 - 150	7/8	1/4 ODF

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DISCHARGE BYPASS


A30/30

BYPASS VALVE ELEMENT

- Used to replace defective element or change application on existing valve

Part No.	Fits Valve	Adjustment Range (psi)
A30/30*	ADRP/ADRH	0 - 30
A30/80*	ADRP/ADRH	0 - 80
A80/30*	ADRS	0 - 30


034N0081

ADJUSTABLE

- Superior control accuracy
- Provides protection against too low an evaporator temperature
- Direct connection to system suction line
- For use with CFC, HCFC and HFC refrigerants
- Regulation range: 0 to 85 psig
- Factory setting: 5.8 psig
- Maximum working pressure MWP : 400 psig
- Maximum differential pressure: 260 psig
- Maximum test pressure: 450 psig
- Maximum media temperature: 285°F
- Minimum media temperature:-50°F
- 1/4" flare pilot connection
- Rated capacity R407C, minimum suction temperature: 15°F, condensing temperature: 100°F, expansion valve superheat: 7°F

Approvals: UL listed, file SA7200 ; CSA approved

			Connection
Part No.	Adjustment Range (psi)	Capacity (Tons)	Size (In.)
034N0081*	0 to 85	6.7	1/2
034N0082*	0 to 85	6.7	1/2


SDR320S-1/2

ELECTRONIC

Performs bypass/capacity control function of traditional valves with proven step motor technology.

- ODF connections

	Connection
Part No.	Size (In.)
SDR320S-1/2*	1/2
SDR320S-5/8*	5/8
SDR420S-7/8*	7/8
SDR420S-1-1/8*	1 1/8

DISTRIBUTOR ACCESSORIES


ASC54

SIDE CONNECTOR

Auxiliary side connectors permit the conversion of conventional Sporlan refrigerant distributors to hot gas bypass, hot gas defrost or reverse cycle (heat pump) service.

- Connection: ODM inlet x ODF outlet x ODF auxiliary

			Connection			
Part No.	Nozzle Type	Overall Length (In.)	In-let	Out-let	Aux-iliary	Type
ASC54*	J	1.88	5/8	5/8	1/2	ODM inlet x ODF outlet x ODF auxiliary
ASC74*	G	2.25	7/8	7/8	1/2	ODM inlet x ODF outlet x ODF auxiliary
ASC95*	E	2.81	1 1/8	1 1/8	5/8	ODM inlet x ODF outlet x ODF auxiliary
ASC117*	C	3.53	1 3/8	1 3/8	7/8	ODM inlet x ODF outlet x ODF auxiliary
ASC139*	A	3.72	1 5/8	1 5/8	1 1/8	ODM inlet x ODF outlet x ODF auxiliary

PRESSURE REGULATOR


ORI658HP

CONDENSER FLOOD CONTROL

- Adjustable
- Used with ORD4 differential valve to flood condenser for low ambient control
- Pressure range: 65-225psi
- Connection: ODF inlet x ODF outlet 90°
- Capacity at 2 lbs. ?P R22 liquid flow
- Opens on rise of inlet pressure

			Connection
Part No.	Port Size (In.)	Capacity (Tons)	Size (In.)
ORI658HP*	3/4	12.0	5/8
ORI678HP*	3/4	12.0	7/8
ORI6118HP*	3/4	12.0	1 1/8
ORI10118HP*	1 1/4	24.0	1 1/8
ORI10138HP*	1 1/4	24.0	1 3/8

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ORD420

DIFFERENTIAL PRESSURE

- Used to maintain receiver pressure during operation of ORIHP valve
- Pressure drop is maximum design between compressor and receiver
- Overall length: 6.56”
- Connection size: 5/8” ODF

Part No.	Pressure Drop (psi)	Valve Setting (psi)	Connection Size (In.)	Overall Length (In.)
ORD420*	<14	20	5/8	6.56
ORD425*	15 - 19	25	5/8	6.56
ORD430*	20 - 24	30	5/8	6.56
ORD435*	25 - 29	35	5/8	6.56


OROA558180

HEAD PRESSURE

- Nonadjustable
- Receiver pressure must be specified
- Pressure drop is maximum design between compressor and receiver
- Discharge size: 5/8” ODF
- Condenser/Receiver size: 5/8 or 7/8” ODF
- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)
- Capacity: 2 lbs. ?P, R22 14.5 tons liquid flow
- Use 100 psi for R12, 180 psi for R22
- Condenser fans should not be cycled when using this type of control. The sudden changes in high side pressure will result in erratic TXV performance and shorten the life of the head pressure control

Part No.	Pressure Drop (psi)	Receiver Pressure (psi)	Connection Size (In.)	Overall Length (In.)
OROA558180*	<14	180	5/8 x 5/8 x 5/8	5.94
OROA578210*	<14	210	5/8 x 7/8 x 7/8	6.19
OROAB558100*	15 - 19	100	5/8 x 5/8 x 5/8	5.94
OROAB558180*	15 - 19	180	5/8 x 5/8 x 5/8	5.94
OROAB578100*	15 - 19	100	5/8 x 7/8 x 7/8	6.19
OROAB578180*	15 - 19	180	5/8 x 7/8 x 7/8	6.19
OROAB578210*	15 - 19	210	5/8 x 7/8 x 7/8	6.19


LAC4100

HEAD PRESSURE

- Small capacity flooded head pressure control
- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)
- Connection sizes available: 1/4”, 3/8” and 1/2” (LAC4100 and 4215)
- Use 100 psi for R12, 180 psi for R22, 210-215 psi for R404A

Part No.	Receiver Pressure (psi)	Connection Size (In.)
LAC4100*	100	3/8
LAC4148-3/8*	148	3/8
LAC4180-3/8*	180	3/8
LAC4180*	180	1/2
LAC4210-3/8*	210	3/8
LAC4215*	215	3/8
LAC-4-220*	220	3/8


LAC4295HP

HEAD PRESSURE

- Small capacity flooded head pressure control
- Capacity winter rated: 2 lbs. ?P, 0°F evaporator, 94°F condenser, 10°F subcooled liquid, 0°F ambient, R410A
- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)

Part No.	Capacity (Tons)	Receiver Pressure (psi)	Connection Size (In.)
LAC4295HP*	2.65	295	1/2
LAC5295HP*	4.71	295	5/8
LAC10295HP-11X7*	8.79	295	7/8

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PRESSURE REGULATOR



ORIT107830

EVAPORATOR

The primary function of this type of valve is to prevent the evaporator pressure from falling below a predetermined value at which the valve has been set.
The 0-50 range is suitable for most applications while the 30-100 range is necessary for those R502 (404A) applications with evaporator temperature >20°F.

- Capacity: R502, 5 psi valve ?P, 0°F evaporator, 100°F condensing, 10°F superheat;
  8 psi evap ?P-0/50, 1.05 tons;
  12 psi evap ?P-30/100, 2.50 tons
- Opens on rise of inlet pressure
- All units have an access valve connection on inlet side
- Connection: M Flare SAE or ODF, 90°

	Connection		Overall Dimensions (In)
Part No.	Size (In.)	Operating Range (psi)	L
ORIT107830*	7/8	30 - 100	11.19
ORIT678*	7/8	0 - 50	9.75
ORIT67830*	7/8	30 - 100	9.75
ORIT65830*	5/8	30 - 100	6.38
ORIT658S*	5/8	0 - 50	9.75
ORIT612*	1/2	0 - 50	6.41
ORIT61230*	1/2	30 - 100	6.41
ORIT612S*	1/2	0 - 50	6.41
ORIT10138*	1 3/8	0 - 50	11.19
ORIT1013830*	1 3/8	30 - 100	11.19
ORIT10118*	1 1/8	0 - 50	11.19
ORIT1011830*	1 1/8	30 - 100	11.19
ORIT611830*	1 1/8	30 - 100	9.75



CRO412S0/20

CRANKCASE

- Adjustable crankcase pressure regulator, closes on rise of outlet pressure
- Overall height: 4.90”
- Capacity approximately .5 tons
- Connection: M Flare SAE or ODF

	Connection	
Part No.	Size (In.)	Adjustment Range (psi)
CRO412S0/20*	1/2	0 - 20
CRO412S0/50*	1/2	0 - 50



CRO658S

CRANKCASE

The function of the crankcase pressure regulating valve is similar to the practice of manually throttling the compressor suction service valve until the machine can handle the load.

- Closes on rise of outlet pressure
- Connection: M Flare SAE or ODF, 90°
- Capacity: R22, 100°F condensing, 10°F superheat, 0°F subcooling, -10°F evaporator,
- CRO6—0.66 tons,
- CRO10—2.23 tons
- Valve set at 30 psi, 1 lb. ? P
- CAUTION
- Do not use with pressure limit expansion valves as similar pressure settings may greatly extend pulldown time.

	Connec-tion			
Part No.	Size (In.)	Capacity (Tons)	Overall Length (In.)	Adjustment Range (psi)
CRO658S*	5/8	0.66	9.82	0 - 60



CROT678

CRANKCASE, ACCESS

Same characteristics as CRO valve T indicates 1/4 SAE access fitting on inlet side of valve

	Connection		
Part No.	Size (In.)	Overall Length (In.)	Adjustment Range (psi)
CROT678*	7/8	9.82	0 - 60
CROT1078*	7/8	11.01	0 - 60
CROT107830*	7/8	11.01	0 - 60
CROT658S30*	5/8	9.82	30 - 110
CROT658S*	5/8	9.82	0 - 60
CROT658FL*	5/8	6.37	0 - 60
CROT612S*	1/2	9.82	0 - 60
CROT612FL*	1/2	6.19	0 - 60
CROT10138*	1 3/8	11.01	0 - 60
CROT1011830*	1 1/8	11.01	30 - 110
CROT10118*	1 1/8	11.01	0 - 60

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SHGBE8

DISCHARGE BYPASS

The SHGB(E) valves are adjustable, pilot operated, discharge bypass valves that Sporlan developed for use on larger capacity systems such as chillers and large air handling units that require system capacity control. The S-valve opens on a decrease in suction pressure and can be set to automatically maintain a desired minimum evaporating pressure regardless of the decrease in evaporator load. The solenoid stop feature on this valve allows it to be closed for system pumpdown with no need for an additional hot gas solenoid valve.

- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4 SAE
- Valve capacity: discharge 50°F above isentropic compression, 10°F subcooling, fully open R22, 26°F minimum evaporation at reduced load, 100°F condensing, SHGBE—15.9 tons, SHGBE15—65.0 tons

	Connection	
Part No.	Size (In.)	Overall Length (In.)
SHGBE8*	1 1/8	9.32
SHGBE15*	1 3/8	11.00


ORIT12

EVAPORATOR

The Sporlan line of evaporator pressure regulating (EPR) valves are designed to provide an accurate and economical means of balancing system capacity and load requirements during "low" loads and/or while maintaining different evaporator conditions on multitemperature evaporator systems. These valves control evaporator temperature by maintaining evaporator pressure. As the evaporator load increases the ORI valves will Open on Rise of Inlet pressure above the valve's setting to provide more flow capacity to meet the evaporator load. When the evaporator load decreases the valves will modulate closed to maintain the pressure setting of the valve.

	Connection		Overall Dimensions (In)	
Part No.	Size (In.)	Capacity (Tons)	L	H
ORIT12*	1 1/8	2.52	8.50	5.71
ORIT15*	1 3/8	3.77	11.06	5.79
ORIT20*	1 5/8	9.09	11.06	7.10


SORIT12

EVAPORATOR, SOLENOID STOP

(S)ORIT-12, -15 and -20 Features

- High side pilot for improved temperature control and low ΔP operation
- Adjustable
- Optional solenoid "stop" feature to close valve during defrost
- Normally open design allows system evacuation without manual operator
- These EPRs are pilot operated using "high side" pressure and require a pilot supply connection from the compressor discharge to operate. They are designed to be "normally open" providing an unparalleled ability to operate with virtually no suction line pressure drop.

	Connection		Overall Dimensions (In)	
Part No.	Size (In.)	Capacity (Tons)	L	H
SORIT12*	1 1/8	2.52	8.50	7.22
SORIT15*	1 3/8	3.77	11.06	7.30
SORIT20*	1 5/8	9.09	11.06	8.60


ORITPI313

EVAPORATOR

(S)ORIT-PI-2, -3, -4 and -5 Features

- Piloted internally (No high side connection required)
- Superior corrosion resistance
- Optional solenoid "stop" feature to close valve during defrost
- Optional electric open feature for "two temperature operation"
- Manual lift stem (standard) to allow system evacuation
- These EPRs are Piloted Internally using the natural pressure drop across the valve to operate and do not require a "high side" pilot connection. And, like the (S)ORIT valves, the pilot operated design does not require the "allowable evaporator pressure change" necessary with the direct acting models, and can be simply sized based on design evaporator temperature and available pressure drop across the valve at full load conditions.
- Design improvements to the SORIT-PI family of valves has resulted in removable ports so that components can now be exchanged to increase or decrease valve capacity. This unique feature allows the valve to become adaptable for application updates or refrigerant conversions.

	Connection		Overall Dimensions (In)
Part No.	Size (In.)	Capacity (Tons)	L
ORITPI313*	1 5/8	3.75	10.80
ORITPI517*	2 1/8	9.13	14.75

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PRESSURE REGULATOR



SORITPI49S

EVAPORATOR, SOLENOID STOP

(S)ORIT-PI-2, -3, -4 and -5 Features

- Piloted internally (No high side connection required)
- Superior corrosion resistance
- Optional solenoid "stop" feature to close valve during defrost
- Optional electric open feature for "two temperature operation"
- Manual lift stem (standard) to allow system evacuation
- These EPRs are Piloted Internally using the natural pressure drop across the valve to operate and do not require a "high side" pilot connection. And, like the (S)ORIT valves, the pilot operated design does not require the "allowable evaporator pressure change" necessary with the direct acting models, and can be simply sized based on design evaporator temperature and available pressure drop across the valve at full load conditions.
- Design improvements to the SORIT-PI family of valves has resulted in removable ports so that components can now be exchanged to increase or decrease valve capacity. This unique feature allows the valve to become adaptable for application updates or refrigerant conversions.

	Connection		Overall Dimensions (In)	
Part No.	Size (In.)	Capacity (Tons)	L	H
SORITPI49S*	1 1/8	4.78	8.50	8.02
SORITPI511S*	1 3/8	9.13	10.80	8.02
SORITPI513S*	1 5/8	9.13	10.80	8.02


OLDR16

DIFFERENTIAL

In many supermarket applications refrigerant gas from the discharge line or from the top of the receiver is used for defrost. This method of defrost diverts a portion of the hot gas or cool gas (from the top of the receiver) to the suction line and back through the evaporator being defrosted. The gas condenses in the evaporator and flows in reverse, through check valves, around the TEV and liquid line solenoid valve. Liquid refrigerant then flows to the liquid header where it is distributed to evaporators not in the defrost cycle. In order for this reverse flow to occur, the pressure of the defrost header must be greater than the pressure of the liquid header. The difference in pressure is known as the defrost differential.

Several methods are used to obtain the defrost differential. The (O)LDR is designed to maintain a differential pressure between the receiver and the liquid header.

Sporlan liquid line differential valves have a solenoid bypass feature that allows the valve to remain full open or modulate to maintain a differential. We supply two versions of liquid line differential valves:

The OLDR is in the full open position when the coil is de-energized, and it's in differential operation mode when the coil is energized.

The LDR is in differential operation mode when the coil is de-energized, and it is in the full open position when the coil isenergized.

The DDR-20 is designed to create a differential pressure between its inlet (discharge) pressure and the receiver pressure.

Part No.	Connection Size (In.)	Capacity (Tons)	Overall Length (In.)	Overall Height (In.)	Use Coil Model
OLDR16*	1 3/8 ODF	31.1	11.05	6.44	MKC1
OLDR16118*	1 1/8 ODF	31.1	11.05	6.44	MKC1
OLDR21*	2 1/8 ODF	48.6	11.06	7.24	MKC1
LDR16*	1 5/8 ODF	31.1	11.05	6.44	OMKC1
LDR21*	2 1/8 ODF	68.7	11.06	7.19	OMKC2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


CDS478

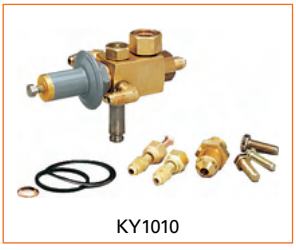
EVAPORATOR STEP

Electronically operated step motor evaporator pressure regulating valve. When properly applied, the CDS valves and controllers can replace standard mechanical evaporator pressure regulator (EPR) valves, suction stop solenoid valves, and conventional thermostats.

- Maximum rated pressure: 680 psig
- Operating temperature: -50°F to 140°F
- Capacity at -10°F evaporator, 60°F liquid, 25°F superheated vapor, 2 psi ?P, R404A
- T models have pressure tap

	Connection	
Part No.	Size (In.)	Capacity (Tons)
CDS478	7/8 x 7/8	1.15
CDS458	5/8 x 5/8	1.15
CDST778*	7/8	3.21
CDST278*	7/8	0.55
CDST478*	7/8	1.15
CDST9*	7/8	3.8
CDST258*	5/8	0.55
CDST458*	5/8	1.15
CDST958*	5/8	3.8
CDST212*	1/2	0.55
CDST412*	1/2	1.15
CDST17158*	1 5/8	8.6
CDST17138*	1 3/8	8.6
CDST7138*	1 3/8	3.21
CDST9138*	1 3/8	3.8
CDST7118*	1 1/8	3.21
CDST9118*	1 1/8	3.8
CDST17218*	2 1/8	8.6

REGULATOR REPAIR KIT


KY1010

(S)ORIT PILOT ASSEMBLY KIT

- Kit includes: pilot assembly, (2) tetraseal gaskets ((S)ORIT12,15), (1) composition gasket ((S)ORIT20), copper flare gasket, 1/2 SAE bottom cap, (8) hex bolts

Part No.	Applicable Valve	Description
KY1010*	ORIT12, ORIT15, ORIT20	Regulator repair kit-includes: pilot assembly, (2) tetraseal gaskets (ORIT12,15), (1) composition gasket (ORIT20), copper flare gasket, 1/2 SAE bottom cap, (8) hex bolts
KY1005*	SORIT12, SORIT15, SORIT20	Regulator repair kit-includes: pilot assembly, (2) tetraseal gaskets (SORIT12,15), (1) composition gasket (SORIT20), copper flare gasket, 1/2 SAE bottom cap, (8) hex bolts


KGSORITPI

(S)ORIT PI

- Apply to all variations

Part No.	Applicable Valve	Description
KGSORITPI*	All (S)ORITPI	O-Ring Kit: (2) Body, (2) Guide Pin


KSORI12

(S)ORIT PARTS KIT

Part No.	Applicable Valve	Description
KSORI12*	(S)ORIT12	Regulator repair kit-includes: adapter, pilot body "T" seal, piston assembly, bottom spring
KSORI/CDA15*	(S)ORIT15/ CDA15	Regulator repair kit-includes: adapter, pilot body "T" seal, piston assembly, bottom spring
KSORI/CDA20*	(S)ORIT20/ CDA20	Regulator repair kit-includes: adapter, pilot body "T" seal, piston assembly, bottom spring


901656

(S)ORIT TO CDS CONVERSION

Conventional evaporator pressure regulator to CDS electronically operated EPR conversion kit.

- Includes: Motor, adaptor, gasket and instructions

Part No.	Applicable Valve	Description
901656*	(S)ORIT12	Regulator conversion kit-includes: motor, adaptor, gasket and instructions
901654*	(S)ORIT15	Regulator conversion kit-includes: motor, adaptor, gasket and instructions
901655*	(S)ORIT20	Regulator conversion kit-includes: motor, adaptor, gasket and instructions

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REGULATOR REPAIR KIT



RKSORITPI2

(S)ORIT PI

- RKS kits include: pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
- Gasket kit and electric open assembly apply to all variations

Part No.	Applicable Valve	Description
RKSORITPI2*	(S)ORITPI2	Sporlan repair kit with pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
RKSORITPI3*	(S)ORITPI3	Sporlan repair kit with pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
RKSORITPI4*	(S)ORITPI4	Sporlan repair kit with pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
RKSORITPI5*	(S)ORITPI5	Sporlan repair kit with pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
SPWKIT1	SPW	Kit Port
953423	SPW Pulse Width Modulation	Service Kit



KSOLDR16

DIFFERENTIAL VALVE

Pressure regulating valve parts kit.

Includes: Upper Valve Assbly, Piston Assbly, Enclosing Tube Locknut, Closing Spring, O- Ring (Large), O- Ring (Small), Cap Screws

Part No.	Use with	Description
KSOLDR16*	OLDR16	Internal Parts Kit



KS10G

10G

Parts Kit for Hot Gas Defrost Valves

Includes: 1 Enclosing Tube Gasket 2 Pilot Assembly Gaskets 1 Plunger Assembly, 1 Pushrod 1 Seat Assembly, 1 Piston Assembly, 1 Valve Spring

Part No.	Applicable Valve	Description
KS10G*	All 10G7	Hot Gas Defrost Kit



GB10

GASKET BOOK

Array of 36 different gaskets replaces most common gaskets used today in expansion and solenoid valves and pumps. This fine gasket material Garlock replaces old gaskets on Sporlan, Penn, Alco, Jackes/Evans, Parker, Mueller, Hamilton Pax, Henry and Primore.

Part No.	Description
GB10	Finny's Gasket Book - Contains 36 of the most commonly used gaskets in the HVAC/R industry and one blank for field fabrication

REFRIGERANT/AMMONIA REGULATOR



A4A-1

INLET PRESSURE

- Pilot operated characterized modulating plug for precise control
- Many control variations are possible with the use of a few modules and kits
- Stainless steel diaphragm
- Chrome plated pilot seat
- Manual opening stem
- Opens on rise of inlet pressure
- Available as differential pressure regulator and remote pilot regulator (special order)
- Standard connections correspond to port size but are not included
- Capacities rated suction: R22, 40°F evaporator, 2 psi ?P 100°F liquid, 10°F superheat
- Standard setpoint range: 0-150 psig
- Working pressure: 300 psig

Part No.	Port Size (In.)	Port Size (mm)	Capacity (Tons)
A4A-1*	1	25	6.4



RSF

STRAINER

These industrial type, semi-steel bodied refrigerant strainers with stainless steel screen are designed especially for the protection of R/S control valves from foreign materials present in refrigeration systems. The strainers may be close coupled to R/S valves having the same flange gasket size.

- Flanges not included, adapter ring not included
- Use with female adapter ring on outlet and FK flange

	Port Size			
Part No.	Inches	Port Size (In.)	Use with Valve Port Size (In.)	Width (In.)
RSF*	3/4	3/4	20, 25	7.63

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


CK4A8

CHECK VALVE

- A flanged in-line light spring loaded check valve typically used for liquid lines, high speed compressor discharge
- Applications: liquid flood back, maintain receiver pressure
- Liquid capacity: 110°F liquid, 20°F evaporator, R22, 3/4 psi ?P
- Hot gas capacity: 90°F condensing, 20°F evaporator, R22, 3/4 psi ?P
- Suction capacity: 110°F liquid, -15°F evaporator, R22, 3/4 psi P
- Flanges not included; use kit corresponding to port size
- Length with FPT or SW flanges

	Port Size			Capacity (Tons)			Dimensions (In.)
Part No.	Inches	mm	Flow (Cv)	Suction	Hot Gas Discharge	Liquid	L
CK4A8*	2	50	46.0	9.8	23.0	114.0	4.47

FLO-CON REGULATOR


A8A-7/8

INLET PRESSURE

The A8 ductile iron-bodied regulators, with brazed copper couplings, maintain a constant pressure at a control point regardless of fluctuations in load, ambient conditions, or alternate diversions for flow.

- Dual spring for wide range pressure set-points
- Pilot operated for close control at desired set-point
- Interchangeable capacity cartridges (Except for the A82's)
- Low pressure drop
- All service from the top
- Sweat-in-place without disassembly

		Connection	Capacity (Tons)			
Part No.	Port Size (In.)	Size (In.)	Liquid Drain	Discharge	Suction	Pressure Range (psig)
A8A-7/8*	7/8	7/8	19.7	4.9	2.08	10" to 400
A8A-1-1/8*	7/8	1 1/8	19.7	4.9	2.08	10" to 400
A81-1-1/8*	1 1/8	1 1/8	25.1	6.2	2.65	10" to 400
A81-1-3/8*	1 3/8	1 3/8	44.5	11.0	4.67	10" to 400
A81-1-5/8*	1 3/8	1 5/8	44.5	11.0	4.67	10" to 400
A82-1-5/8*	1 5/8	1 5/8	66.3	16.4	6.98	10" to 400
A82-2-1/8*	2 1/8	2 1/8	116.8	28.9	12.25	10" to 400


A810E-1-1/8

OUTLET PRESSURE

The A8 ductile iron-bodied regulators, with brazed copper couplings, maintain a constant pressure at a control point regardless of fluctuations in load, ambient conditions, or alternate diversions for flow.

- Dual spring for wide range pressure set-points
- Pilot operated for close control at desired set-point
- Interchangeable capacity cartridges (Except for the A82's)
- Low pressure drop
- All service from the top
- Sweat-in-place without disassembly

		Connection	Capacity (Tons)	
Part No.	Port Size (In.)	Size (In.)	Hot Gas Bypass	Condenser Bypass
A810E-1-1/8*	5/8	1 1/8	47.6	37.4
A810E-1-3/8*	1 3/8	1 3/8	77.8	66.0
A820E-1-5/8*	1 5/8	1 5/8	120.1	98.5
A820E-2-1/8*	2 1/8	2 1/8	203.4	173.2


A81BL-1-3/8

DIFFERENTIAL PRESSURE

The A8 ductile iron-bodied regulators, with brazed copper couplings, maintain a constant pressure at a control point regardless of fluctuations in load, ambient conditions, or alternate diversions for flow.

- Dual spring for wide range pressure set-points
- Pilot operated for close control at desired set-point
- Interchangeable capacity cartridges (Except for the A82's)
- Low pressure drop
- All service from the top
- Sweat-in-place without disassembly

Part No.	Connection Size (In.)	Discharge Capacity (Tons)
A81BL-1-3/8*	1 3/8	11.0
A82BL-1-5/8*	1 5/8	16.4
A82BL-2-1/8*	2 1/8	28.9

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLO-CON REGULATOR



A9E-5/8

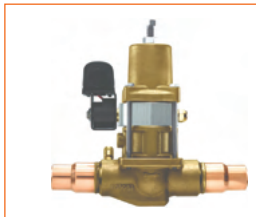
OUTLET PRESSURE

The A9E is an "externally equalized" outlet pressure regulator and is usually applied as a hot gas bypass regulator. For those applications where the discharge gas is introduced into the inlet of the evaporator, an A9E is typically used with a small pilot line connected from the compressor suction to the external f itting on the regulator. Installed in this manner the valve senses and responds to compressor suction pressure while piped to feed discharge gas to the inlet of the evaporator.

- Controls outlet pressure at sensing point
- Pilot operated for close regulation
- Few sizes cover entire capacity range
- Tight seating - simple adjustment
- Sweat end design solders into line without disassembly

			Capacity (Tons)	
Part No.	Port Size (In.)	Hot Gas Size (In.)	Hot Gas Bypass	Condenser Bypass
A9E-5/8*	5/8	5/8	5.7	5.5
A9E-7/8*	7/8	7/8	16.4	15.5
A9SE-7/8*	7/8	7/8	16.4	15.5





SPORTII37/LC

EVAPORATOR PRESSURE

The commercial pressure regulator (S)PORT/ (S)PORTII valves are designed with stainless steel bonnet bolts, adjusting stems, and piston and plug assemblies. The result is a regulator designed to withstand the rigorous application environment a low side regulator must endure. Unlike some competitive models of low side regulators that utilize high pressure discharge gas as a pilot source, they are piloted with upstream pressure. This eliminates the requirement for hot gas headers, isolation devices, piping, and the labor associated with the installation of other valves. Flare connections from high pressure pilot lines are also eliminated, minimizing sources for prospective leaks.

- The piston and plug assembly can handle reduced flow conditions and controlling down to about 15% of the valve's maximum capacity
- Designed entirely with corrosion resistant materials
- New cooler running coil and open frame coil housing
- New dual voltage 208/240/60 Hz coil
- Conveniently located access fitting
- Excellent regulation at light loads
- Interchangeable capacity cartridges
- Low pressure drop
- Long-life stainless steel diaphragms (no bellows to fail)

		Connection	Capacity (Tons)
Part No.	Port Size (In.)	Size (In.)	Suction
SPORTII37/LC*	3/8	7/8	.34
SPORTII39/LC*	3/8	1 1/8	.34
SPORTII57/LC*	5/8	7/8	.87
SPORTII59/LC*	5/8	1 1/8	.87
SPORTII511/LC*	5/8	1 3/8	.87
SPORTII77/LC*	7/8	7/8	1.23
SPORTII79/LC*	7/8	1 1/8	1.23
SPORTII711/LC*	7/8	1 3/8	1.23
SPORTII713/LC*	7/8	1 5/8	1.23
SPORTII99/LC*	1 1/8	1 1/8	1.57
SPORTII911/LC*	1 1/8	1 3/8	1.57
SPORTII1111/LC*	1 3/8	1 3/8	2.78
SPORTII1113*	1 3/8	1 5/8	2.78
SPORTII1113/LC*	1 3/8	1 5/8	2.78
SPORT37*	3/8	7/8	.34
SPORT57*	5/8	7/8	.87
SPORT59*	5/8	1 1/8	.87
SPORT77*	7/8	7/8	1.23
SPORT79*	7/8	1 1/8	1.23
SPORT99*	1 1/8	1 1/8	1.57
SPORT911*	1 1/8	1 3/8	1.57
SPORT1111*	1 3/8	1 3/8	2.78
SPORT1113*	1 3/8	1 5/8	2.78

Continued on next page

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		Connection	Capacity (Tons)
Part No.	Port Size (In.)	Size (In.)	Suction
SPORT1313*	1 5/8	1 5/8	4.14
SPORT1317*	1 5/8	2 1/8	4.14
SPORT1713*	2 1/8	1 5/8	7.28
SPORT1717*	2 1/8	2 1/8	7.28
PORTII37*	3/8	7/8	.34
PORTII39*	3/8	1 1/8	.34
PORTII57*	5/8	7/8	.87
PORTII59*	5/8	1 1/8	.87
PORTII1113*	1 3/8	1 5/8	2.78
PORT1717*	2 1/8	2 1/8	7.28
PORT2121*	2 5/8	2 5/8	9.32

SECONDARY COOLANT SOLENOID



AF4C05-R1021

COIL

USE WITH 34E NORMALLY CLOSED VALVE ONLY

Part No.	Description	Voltage	Wire Length (In.)
AF4C05-R1021*	Solenoid coil, secondary coolant valve, for 34E24C	120	18
AF4C10-R1021*	Solenoid coil, secondary coolant valve, for 34E24C	208	18



10E23C2-R1021E

NORMALLY CLOSED

A new line of solenoid valves to control secondary coolant. These fluids include propylene glycol, ethylene glycol, Pecasol 50, Dynalene HC-40 and others. Parker's valve is the only valve designed to meet the requirements of both medium and low temperature applications encountered in supermarket applications.

			Connection		
Part No.	Flow (Cv)	MOPD (psi)	Size (In.)	Type	Overall Length (In.)
10E23C2-R1021E*	4.0	0 - 150	5/8	ODS	6.50
14E23C2-R1021E*	5.0	0 - 150	7/8	ODS	8.75
18E23C2-R1021E*	5.0	0 - 150	1 1/8	ODS	10.31
22EH5C2-R1021E*	12.2	0 - 50	1 3/8	ODS	9.38
26EH5C2-R1021E*	12.2	0 - 50	1 5/8	ODS	9.38
34E24C2-R1021E*	22.5	5 - 125	2 1/8	ODS	11.06



10E2302-R1021E

NORMALLY OPEN

A new line of solenoid valves to control secondary coolant. These fluids include propylene glycol, ethylene glycol, Pecasol 50, Dynalene HC-40 and others. Parker's valve is the only valve designed to meet the requirements of both medium and low temperature applications encountered in supermarket applications.

			Connection		
Part No.	Flow (Cv)	MOPD (psi)	Size (In.)	Type	Overall Length (In.)
10E2302-R1021E*	4.0	0 - 150	5/8	ODS	6.50
14E2302-R1021E*	5.0	0 - 150	7/8	ODS	8.75
18E2302-R1021E*	5.0	0 - 150	1 1/8	ODS	10.31



CF5C05R1021

COIL

10E, 14E, 18E, 22E, 26E NORMALLY OPEN OR NORMALLY CLOSED AND 34E NORMALLY OPEN SERIES VALVES

Part No.	Description	Voltage	Wire Length (In.)
CF5C05R1021*	Solenoid coil, secondary coolant valve	120	18
CF5C10-R1021*	Solenoid coil, secondary coolant valve	208	18
CF5C15-R1021*	Solenoid coil, secondary coolant valve	240	18

ACCESSORIES



FK25-3/4FPT

FLANGE KIT, FPT

- Fits valve with appropriate port size
- Includes pair of flanges only

	Port Size	Connection
Part No.	mm	Size (In.)
FK25-3/4FPT*	20, 25	3/4
FK25-114FPT*	20, 25	1 1/4
FK32-1-1/4FT*	32	1 1/4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESSORIES

SOLENOID COIL



202944

Part No.	Description	Voltage	Use with	Width (In.)
202944*	R/S 24V COIL A8 & A9 SERIES VALVES	24	Flocon, A8, A9	3.00
202940*	R/S 120V COIL A8 & A9 SERIES VALVES	120	Flocon, A8, A9	2.30
202942*	R/S 208V COIL A8 & A9 SERIES VALVES	208	Flocon, A8, A9	2.70
202941*	R/S 240V COIL A8 & A9 SERIES VALVES	240	Flocon, A8, A9	2.70
206004*	R/S SOL COIL 120V FOR ALL SPORT VALVES	120	SPORT, SPORTII	2.10
206005*	R/S SOL COIL 208/240V ALL SPORT VALVES	208/240	SPORT, SPORTII	1.80
206007*	R/S SOL COIL 24V FOR ALL SPORT VALVES	24	SPORT, SPORTII	2.00
335003	SPORLAN PWC1 COIL 120V CA18 335003	120	PWC1	2.20

GASKET KIT



202701

Part No.	Use with	Width (In.)
202701*	A8A, A81, SPORT 3 to 11	6.00
202420*	A9	5.00

FLANGE GASKET

Replacement gaskets for valve flanges; flange kit (FK) sizes correspond to valve port size



202078

Part No.	Flange Size (In.)	Use with
202078*	1/2	FK-13
202081*	1 5/8, 2	FK-50

CARTRIDGE KIT



202710

Part No.	Use with	Port Size Inches	Port Size (In.)	Width (In.)
202710*	SPORT, A8	7/8	7/8	3.30
202711*	SPORT, A8	5/8	5/8	3.30
202712*	SPORT, A8	3/8	3/8	0.40
202708*	SPORT, A8	1 3/8	1 3/8	2.50
202709*	SPORT, A8	1 1/8	1 1/8	3.70

A8/SPORT TO CDS VALVE CONVERSION KIT



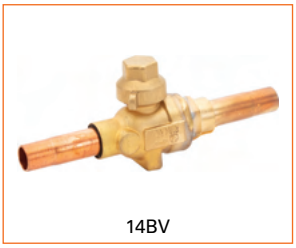
183903

- Converts a mechanical A8 or SPORT valve to a stepper motor driven modulating valve
- Eliminates the need for brazing, because the existing A8 or SPORT valve body stays in the system piping
- Economical system upgrade opportunity, with a typical 30 minute valve installation
- Reduces the external seal surface area
- Improves performance and system efficiency
- Tight seating for defrost and pumpdown applications
- No pressure drop required for operation

Part No.	Description	Width (In.)
183903*	A81 (5/8") to SDR-5	6.25
183904*	A81 (7/8 - 1 3/8") to CDS-17	6.25
183905*	A82 (1 5/8 - 2 1/8") to CDS-17	6.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT BALL VALVE



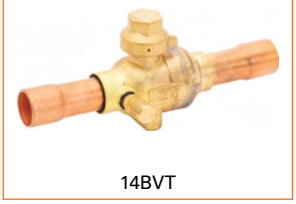
14BV

LESS ACCESS PORT

- Full refrigeration service temperature range of -40°F to +300°F
- Design working pressure: 700 psig
- Robust brass body and cap design

Part No.	Connection Size (In.)	Connection Type	Port Size (In.)	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)
14BV*	1/4	ODS	0.50	5.50	2.2	0.92
38BV*	3/8	ODS	0.50	5.50	4.4	0.93
12BV*	1/2	ODS	0.50	6.33	7.2	0.96
58BV*	5/8	ODS	0.50	6.33	14.3	0.96
34BV*	3/4	ODS	0.75	7.32	20.6	1.69
78BV*	7/8	ODS	0.75	7.32	29.7	1.69
118BV*	1 1/8	ODS	1	9.10	60.0	2.48
138BV*	1 3/8	ODS	1 1/4	9.66	83.5	3.61
158BV*	1 5/8	ODS	1 1/2	11.00	206.0	5.43
218BV*	2 1/8	ODS	2	11.75	279.0	10.90
258BV*	2 5/8	ODS	2	11.75	292.6	11.35
258BVFP*[1]	2 5/8	ODS	2 4/9	12.92	340.0	15.00
318BV*	3 1/8	ODS	2 1/2	14.68	316.0	20.51

[1] Full port



14BVT

WITH ACCESS PORT

- Full refrigeration service temperature range of -40°F to +300°F
- Design working pressure: 700 psig
- Robust brass body and cap design
- 1/4" M flare access fitting

Part No.	Connection Size (In.)	Connection Type	Port Size (In.)	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)
14BVT*	1/4	ODS	0.50	5.50	2.2	0.92
38BVT*	3/8	ODS	0.50	5.50	4.4	0.93
12BVT*	1/2	ODS	0.50	6.33	7.2	0.95
58BVT*	5/8	ODS	0.50	6.33	14.3	0.96
34BVT*	3/4	ODS	0.75	7.32	20.6	0.96
78BVT*	7/8	ODS	0.75	7.32	29.7	1.69
118BVT*	1 1/8	ODS	1	9.10	60.0	2.48
138BVT*	1 3/8	ODS	1 1/4	9.66	83.5	3.61
158BVT*	1 5/8	ODS	1 1/2	11.00	206.0	5.43
218BVT*	2 1/8	ODS	2	11.75	279.0	10.90
258BVT*	2 5/8	ODS	2	11.75	292.6	11.36



14-58BVRK

RETROFIT KIT

Retrofit Cap w/ Teflon Gasket. Designed to replace existing caps on installed BV and BVT refrigerant ball valves

Part No.	Fits Valve	Ship Wgt (Lbs.)
14-58BVRK	1/4" to 5/8"	0.15
34-118BVRK	3/4" to 1 1/8"	0.20
138-158BVRK	1 3/8" to 1 5/8"	0.30
218-318BVRK	2 1/8" to 3 1/8"	0.60



EBVTPR1030

BALL VALVE WITH INTEGRAL PRESSURE RELIEF

- Allows for positive shut-off in one direction and flow in the other direction whenever pressure differential is present. (The integrated pressure relief feature is one direction only.)
- Protects system from pressure spikes when servicing equipment.
- Welded body joint. Factory tested to ensure positive, leak-free performance. Forged brass body construction with extended copper fittings and optional access fittings.
- Full size ports for unrestricted flow on most sizes, 3/8" through 1-1/8".
- Dual Teflon seals surround the polished, brass ball to prevent leakage. Stem seal and stem washer provide the primary stem seal. Bottom load stem for safety.
- Stainless steel stop plate ensures fully open to fully closed with a 1/4 turn.
- All EBV(T)-PR ball valves may be installed in any position.
- Full refrigeration service temperature range: -40°F to +325°F
- Design working pressure: 1015 psig
- For refrigeration or air conditioning systems
- Suitable for use with the following refrigerants: R22, R123, R125, R134a, R236fa, R402A, R402B, R404A, R407A, R407C, R407F, R410A, R422D, R448A, R449A, R450A, R452A, R507, R513A, R744

Part No.	Connection Size (In.)	Connection Type	Port Size (In.)	Overall Length (In.)	Overall Height (In.)	Flow (Cv)	Ship Wgt (Lbs.)
EBVTPR1030	3/8	ODF	0.50	6.50	3.08	4.3	0.90
EBVTPR1040	1/2	ODF	0.50	6.50	3.08	7.0	0.93
EBVTPR1050	5/8	ODF	0.50	6.50	3.08	13.9	0.91
EBVTPR1060	3/4	ODF	0.75	7.25	3.59	21.0	1.50
EBVTPR1070	7/8	ODF	0.75	7.25	3.59	30.3	1.72
EBVTPR1090	7/8	ODF	1	8.50	4.11	61.3	2.65

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT BALL VALVE


586WA6ST

LESS ACCESS PORT

- Full refrigeration service temperature range of -40°F to +325°F
- Forged brass body and seal cap
- No synthetic O ring seals. Double seal protection provides a superior stem design
- Design working pressure: 700 psig
- Full flow ports in all sizes through 2 1/8"; 595WA25ST and 596WA31ST are also full port

	Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)
586WA6ST	3/8	ODS	6.50	3.6	0.80
586WA8ST	1/2	ODS	6.50	7.4	0.60
586WA10ST	5/8	ODS	16.50	14.6	0.60
587WA12ST	3/4	ODS	6.56	22.3	0.10
587WA14ST	7/8	ODS	6.56	30.0	0.90
591WA11ST	1 1/8	ODS	7.69	62.0	2.35
592WA13ST	1 3/8	ODS	8.88	110.0	4.15
593WA15ST	1 5/8	ODS	9.13	135.0	4.20
594WA21ST	2 1/8	ODS	9.88	270.0	7.95
594WA25ST	2 5/8	ODS	12.88	250.0	1.45
595WA25ST[1]	2 5/8	ODS	12.92	340.0	16.20
594WA31ST	3 1/8	ODS	13.75	240.0	11.00
596WA31ST[1]	3 1/8	ODS	16.31	480.0	26.25
596WA35ST[1]	3 5/8	ODS	16.03	455.0	25.00
596WA41ST	4 1/8	ODS	16.03	430.0	27.00

[1] full port


586WAS6ST

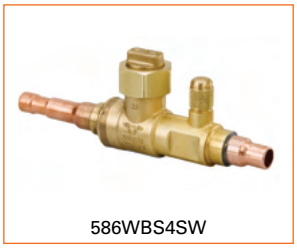
WITH ACCESS PORT

- Full refrigeration service temperature range of -40°F to +325°F
- Forged brass body and seal cap
- No synthetic O ring seals. Double seal protection provides a superior stem design
- Design working pressure: 700 psig
- 1/4" M flare access fitting

	Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)
586WAS6ST	3/8	ODS	6.50	3.6	0.70
586WAS8ST	1/2	ODS	6.50	7.4	0.65
586WAS10ST	5/8	ODS	6.50	14.6	0.85
587WAS14ST	7/8	ODS	6.56	30.0	1.15
591WAS11ST	1 1/8	ODS	7.69	62.0	2.30
592WAS13ST	1 3/8	ODS	8.88	110.0	4.20
593WAS15ST	1 5/8	ODS	9.13	135.0	4.25
594WAS21ST	2 1/8	ODS	9.88	270.0	8.05

Continued on next page

	Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)
595WAS25ST	2 5/8	ODS	12.92	340.0	15.80
596WAS31ST	3 1/8	ODS	16.31	480.0	26.00


586WBS4SW

VRF BALL VALVES

Superior's VRF Ball Valves are designed to provide a complete ball valve package for VRF ductless air conditioning systems.

- Features flare and ODS connections for fast, leak-tight service
- Exclusive uni-body design eliminates leak points
- Full port design
- Design Working Pressure: Now UL Approved for 800 PSIG
- Factory tested under pressure to ensure leak tightness
- Uses a forged brass body and seal cap
- PTFE ball seals and gaskets ensure tight leak-free valve
- Dual PTFE seals in stem prevent leaks
- Seal cap design allows valve operation without removal of seal cap
- Temperature Rating of -40°F to +325°F
- Compatible with these refrigerants R-11, R-22, R-123, R-125, R-134A, R-236FA, R-402B, R-404A, R-407C, R-410A, R-500, R502, R-507

	Connection			
Part No.	Size (In.)	Type	Overall Length (In.)	Ship Wgt (Lbs.)
586WBS4SW	1/4	ODS	6.50	0.82
586WBS6SW	3/8	ODS	6.50	0.82
586WBS8SW	1/2	ODS	6.50	1.00
586WBS10SW	5/8	ODS	6.50	1.00
586WBS4FL	1/4	MFL x FFL	6.19	1.00
586WBS6FL	3/8	MFL x FFL	6.30	0.91
586WBS8FL	1/2	MFL x FFL	6.51	1.00
586WBS10FL	5/8	MFL x FFL	6.64	1.01


18PCFXF

PETCOCK

For use with water
No flammable liquids and no gases

	Connection	
Part No.	Size (In.)	Type
18PCFXF	1/8	FPT x FPT
18PCFXM	1/8	FPT x MPT


A17843

SEAL CAP KIT

Includes Seal Cap, Seal Cap Gasket, Anti-Friction Ring, Cap Nut

Part No.	Fits Valve	Ship Wgt (Lbs.)
A17843	3/4", 7/8"	1.00
A17842	1/4", 3/8", 1/2", 5/8"	0.50
A17845	1 5/8" to 3 1/8"	2.00
A17844	1 1/8"	1.00
A17846	2 5/8" to 3 1/8"	2.00

DIAPHRAGM PACKLESS VALVE

CONNECTION SAE X SAE

- Forged brass body with full size openings for maximum flow and minimal pressure drop
- Operable in wide temperature ranges
- Two stainless steel diaphragms and one phosphor bronze diaphragm for positive isolation.
- Thermally stable hand wheel for operation in wide temperature ranges
- Valves are UL/cUL recognized and CE certified
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- Operating temperature ranges from -40°F to 300°F
- Max. work pressure of 700 psig


A14833

CONNECTION SAE X SAE

- M flare connection

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Connection Type	Overall Height (In.)	Overall Length (In.)	Ship Wgt (Lbs.)
A14833	1/4	SAE x SAE Male	2.70	2.70	0.49
A14835	3/8	SAE x SAE Male	2.70	2.78	0.49
A14836	1/2	SAE x SAE Male	3.46	3.48	0.49
A14837	5/8	SAE x SAE Male	3.46	3.63	1.10


A14838

CONNECTION ODS X ODS

LINEMASTER® Packless Diaphragm Valves - Straight, Solder to Solder

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Connection Type	Overall Height (In.)	Overall Length (In.)	Ship Wgt (Lbs.)
A14838	1/4	ODS x ODS	2.70	2.20	0.60
A14840	3/8	ODS x ODS	2.70	2.20	0.60
A14841	1/2	ODS x ODS	3.49	2.88	0.97
A14842	5/8	ODS x ODS	3.49	2.64	1.00


A14848

CONNECTION ODS X ODS, EXTENDED

LINEMASTER® Packless Diaphragm Valves - Straight, Solder to Solder Extended Ends

- With copper tube extensions

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Connection Type	Overall Height (In.)	Overall Length (In.)	Ship Wgt (Lbs.)
A14848	1/4	ODS x ODS	2.70	5.50	0.72
A14850	3/8	ODS x ODS	2.70	6.00	0.75
A14851	1/2	ODS x ODS	3.49	6.50	1.10
A14852	5/8	ODS x ODS	3.49	6.50	1.20


A15541

CONNECTION ODS X ODS, ANGLE

LINEMASTER® Packless Diaphragm Valves - Angle, Solder to Solder

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Connection Type	Overall Height (In.)	Ship Wgt (Lbs.)
A15541	1/2	ODS x ODS	3.70	1.15


5163

CONNECTION ODS X ODS

- Recommended for applications and service pressures up to 500 psi
- Temperature rating: -20°F to 275°F
- Cored brass forging
- Golden bantam®
- Foot mounting plate

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Connection Type	Overall Length (In.)	Ship Wgt (Lbs.)
5163	3/8	ODS x ODS	3.50	0.05

DIAPHRAGM PACKLESS VALVE


6265N

CONNECTION ODS X ODS

Valves are nondirectional up to 350 psi. For higher pressures up to 500 psi, direction of flow must be with the inlet under the valve seat.

- Forged brass body
- Maximum temperature rating: 275°F
- Foot mounting plate

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Connection Type	Overall Length (In.)	Ship Wgt (Lbs.)
6265N	5/8	ODS x ODS	3.50	1.43
6266N	3/4	ODS x ODS	4.38	2.75


6471N

CONNECTION ODS X ODS, ANGLE

Valves are nondirectional up to 350 psi. For higher pressures up to 500 psi, direction of flow must be with the inlet under the valve seat.

- Forged brass body
- Maximum temperature rating: 275°F

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Connection Type	Overall Height (In.)	Ship Wgt (Lbs.)
6471N	1/4	ODS x ODS, Angle	3.44	0.89
6475N	5/8	ODS x ODS, Angle	3.81	1.19
6478N	1 1/8	ODS x ODS, Angle	6.50	4.49


6231N

CONNECTION ODS X SAE

- Charge and purge valve
- Straight, hand wheel
- With protective outlet cover, backseating
- M flare outlet

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Connection Type	Ship Wgt (Lbs.)
6231N	1/4	ODS x MFL	1.01
6232N	3/8	ODS x MFL	1.07

PACKED ANGLE VALVE


A13613

CONNECTION MPT X SAE, NON-BACKSEATING

- Design Pressure (DP) / Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Contact factory or visit website for compatibility with CFC, HCFC, HFC and HFO refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 2014/68/EU, CRN 0C1241.9C
- Forged brass body
- Corrosion resistant stem suitable for refrigerants and other industrial fluids

MUELLER INDUSTRIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
A13613	3/8	1/4	3.14
A11030	1/4	3/8	3.10
A13503	3/8	3/8	3.15
A11042	3/8	1/2	3.77
A19023	1/2	3/8	


A13220

CONNECTION MPT X SAE, BACKSEATING

Packed Line Valves, Angle - Backseating NPTFE Inlet to Flare

MUELLER INDUSTRIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
A13220	1/2	1/2	4.11
A13183	1/2	5/8	4.64


A17913

CONNECTION ODS X SAE

These charging and purging valves are designed to be installed on the branch or run of a solder-type tee.

MUELLER INDUSTRIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
A17913	3/8	1/4	2.72
A17503	3/8	3/8	2.72
A19022	1/2	1/4	2.67
A19021	1/2	3/8	2.67


A17429

INTERNAL SWIVEL, MFL X FFL

- Design Pressure (DP) / Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Contact factory or visit website for compatibility with CFC, HCFC, HFC and HFO refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 2014/68/EU, CRN 0C1241.9C
- Forged brass body
- Corrosion resistant stem suitable for refrigerants and other industrial fluids

MUELLER INDUSTRIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
A17429	1/4	1/4	3.49
A17474	3/8	3/8	3.55


9271

CONNECTION ODM/ODS X SAE

Packed angle line valve

- Charge and purge valve
- Non-backseating with protective outlet cover
- M flare side connection

HENRY TECHNOLOGIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
9271	3/8	1/4	3.66
9272	3/8	3/8	3.66
9273	1/2	1/4	3.66

PACKED ANGLE RECEIVER VALVE


7771B

CONNECTION MPT X FPT

- Forged brass body
- Maximum temperature rating: 300°F
- Maximum working pressure: 500 psi

HENRY TECHNOLOGIES

	Connection Size (In.)		
Part No.	Bottom Inlet	Side Outlet	Overall Height (In.)
7771B	1/4	1/4	3.66


7831

CONNECTION ODS X ODS

- Forged brass body
- Maximum temperature rating: 300°F
- Maximum working pressure: 500 psi
- Angle, seal cap
- Connection: ODS x ODS
- Backseating
- 1/4 M flare access port above backseat

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Overall Height (In.)
7831	1/2	4.47
7832	5/8	4.58
7833	7/8	5.44
7834	1 1/8	7.10
7835	1 3/8	7.42
7836	1 5/8	9.14

SWIVEL ANGLE VALVE


9240

CONNECTION SAE X SAE

- Swivel valve
- Connection: M flare x F flare

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Overall Height (In.)
9240	1/4	4.13
9241	3/8	4.13

PRESSURE RELIEF VALVE

CONNECTION MPT X SAE



3012250

Part No.	Connection Inlet	Connection Outlet	Pressure Setting (psig)	Overall Length (In.)	Port Size (In.)
3012250	1/4	3/8	250	2.98	3/16
3012300	1/4	3/8	300	2.98	3/16
3012350	1/4	3/8	350	2.98	3/16
3012400	1/4	3/8	400	2.98	3/16
3012425	1/4	3/8	425	2.98	3/16
3012450	1/4	3/8	450	2.98	3/16
3014235	3/8	3/8	235	2.98	3/16
3014300	3/8	3/8	300	2.98	3/16
3014350	3/8	3/8	350	2.98	3/16
3014400	3/8	3/8	400	2.98	3/16
3014425	3/8	3/8	425	2.98	3/16
3014450	3/8	3/8	450	2.98	3/16
3015350	3/8	1/2	350	3.11	3/16
3015400	3/8	1/2	400	3.11	3/16
3016425	3/8	1/2	425	3.28	9/32
3020235	1/2	5/8	235	3.50	9/32
3020300	1/2	5/8	300	3.50	9/32
3020350	1/2	5/8	350	3.50	9/32
3020400	1/2	5/8	400	3.50	9/32
3020425	1/2	5/8	425	3.50	9/32
3020450	1/2	5/8	450	3.50	9/32
3020500	1/2	5/8	500	3.50	9/32
3014C650	3/8	3/8	650	3.35	3/16
3015C600	3/8	1/2	600	3.47	3/16
3020C600	1/2	5/8	600	4.45	9/32
3020C650	1/2	5/8	650	4.45	9/32

CONNECTION MPT X SAE, 90°



3212235

Part No.	Connection Inlet	Connection Outlet	Pressure Setting (psig)	Overall Length (In.)	Port Size (In.)
3212235[1]	1/4	3/8	235	2.92	3/16
3214350[1]	3/8	3/8	350	2.92	3/16
3214400[1]	3/8	3/8	400	2.92	3/16
3214450[1]	3/8	3/8	450	2.92	3/16
3220300[1]	1/2	5/8	300	2.84	9/32
3220350[1]	1/2	5/8	350	2.84	9/32
3220400[1]	1/2	5/8	400	2.84	9/32
3220425[1]	1/2	5/8	425	2.84	9/32
3220450[1]	1/2	5/8	450	2.84	9/32

[1] To center of flare fitting

CONNECTION MPT



3000300

Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)
3000300	1/8	300	2.17
3001350	1/4	350	2.30
3001425	1/4	425	2.30
3002300	3/8	300	2.30
3002400	3/8	400	2.30
3002450	3/8	450	2.30
3002500	3/8	500	2.30
3002C650	3/8	650	2.55


3045300

CONNECTION MPT X FPT

Part No.	Connection		Pressure Setting (psig)	Overall Length (In.)
	Inlet	Outlet		
3045300	3/4	3/4	300	4.00
3045350	3/4	3/4	350	4.00
3045400	3/4	3/4	400	4.00
3045425	3/4	3/4	425	4.00
3045450	3/4	3/4	450	4.00
3060300	1 NPT	1 FPT	300	4.87

DUAL SHUT OFF


925

CONNECTION FPT

For dual relief valves and drier bypass installations or applications requiring simultaneous opening of one line and closing of another.

- Maximum working pressure: 450 psi
- Temperature rating: -20°F to 300°F

Part No.	Connection		Overall Length (In.)	Ship Wgt (Lbs.)
	Size (In.)	Type		
925	1/2	FPT	6.26	0.60

RUPTURE DISC ASSEMBLY


5525300

CONNECTION MPT X FPT

- Use in conjunction with relief valves
- Usage in accordance with ASME code, section VIII, div. 1
- Pressure setting at 72°F
- Overall length: 3.25"

Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)	Construction
5525300	3/8	300	2.56	Brass
5526300	1/2	300	3.25	Brass
5526350	1/2	350	2.87	Brass
5526400	1/2	400	2.87	Brass
5526450	1/2	450	2.87	Brass
5627300	3/4	300	3.19	Stainless Steel


AH17971

CONNECTION MPT X FPT

Rupture Disc assemblies are designed to burst open and relieve an over pressure or vacuum condition at a predetermined differential pressure, and specific temperature. A rupture disc indicates which pressure relief valve has discharged. A rupture disc remains open after bursting, but when combined with a pressure gauge or high pressure switch, a visual or electronic indication of the burst is revealed.

Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)	Construc-tion
AH17971	1/2	400	3.25	Brass
AJ17971	1/2	450	3.25	Brass

CHECK VALVE

Y CHECK VALVE

This Y type of valve has been the most popular design in the refrigeration industry for years. The internal parts can easily be removed and reassembled after soldering. This basic Ytype design reduces pressure drop to a very low level.
All Superior check valves have Teflon seats. These valves may be installed in any position except upside down.

- Brass body, Teflon seat
- Minimum temperature: -40°F
- Maximum temperature: 400°F
- Any Superior/Sherwood "Y" check valve marked 500 psi has been approved for R410A applications and 700 psi working pressure


802B6

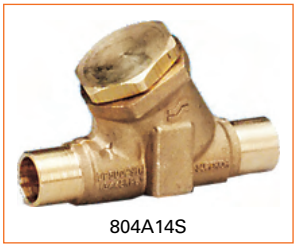
CONNECTION SAE X SAE

- M flare connection

Part No.	Connection Size (In.)	Overall Length (In.)
802B6	3/8	3.00

CHECK VALVE

CONNECTION ODS X ODS


804A14S

SUPERIOR A SHERWOOD COMPANY

Part No.	Connection Size (In.)	Overall Length (In.)
804A14S	7/8	3.75
803B10S	5/8	3.31
802B6S	3/8	3.00
802B4S	1/4	3.00
802B8S	1/2	2.56

CONNECTION ODS X ODS, EXTENDED

- Extended tube


803B10ST

SUPERIOR A SHERWOOD COMPANY

Part No.	Connection Size (In.)	Overall Length (In.)
803B10ST	5/8	6.81
802B6ST	3/8	6.13
802B8ST	1/2	6.35

CONNECTION ODS X ODS


B34235

- Maximum abnormal pressure (MAP): 700 psig
- Continuous operating temperature (COT):-40° to 300°F
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Horizontal or vertical installation (not to be installed with bonnet facing down)
- Y type design provides minimal pressure drop and increased flow capacity

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Overall Length (In.)
B34235	7/8	3.68
B34238	1 5/8	4.75
B34237	1 3/8	4.75
B34236	1 1/8	3.68
B34240	2 5/8	8.88
B34239	2 1/8	6.37

MAGNETIC CHECK VALVE


A17939

Designed to prevent undesirable reverse flow. Can be installed in any position without affecting performance.

- Near zero leak rate
- Can be installed with hard or soft solder
- Capacity: R22, suction 40°F evaporator, 1 psi ?P
- Built in stainless steel strainer
- Spun copper style
- Connection: ODS x ODS

MUELLER INDUSTRIES

Part No.	Connection Size (In.)	Diameter (In.)	Overall Length (In.)	Capacity (Tons)
A17939	7/8	1.62	7.00	3.8
A17937	5/8	1.12	5.12	1.6
A17935	3/8	0.88	4.00	0.6
A17934	1/4	0.88	4.00	0.4
A17936	1/2	1.12	5.12	1.2
A17942	1 5/8	3.12	10.50	17.0
A17941	1 3/8	2.62	9.37	9.5
A17940	1 1/8	2.12	8.37	6.0
A17944	2 5/8	4.12	13.00	50.0
A17943	2 1/8	3.62	12.00	30.0

CONNECTION ODS X ODS


900MA-6S

- Hermetically sealed spun copper body.
- 30 mesh screen to protect seat surface from debris.
- Magnetic Actuation.
- Lapped" stainless steel disc and "lapped" brass seat assembly.
- Arrow indicates direction of flow.
- Minimal Pressure Drop.
- Capacity: R22, 40°F, 1 psi ?P
- U.L. and C-U.L. Recognized, File No. SA2989(N)

SUPERIOR A SHERWOOD COMPANY

Part No.	Connection Size (In.)	Diameter (In.)	Overall Length (In.)	Suction Capacity (Tons)
900MA-6S	3/8	0.88	4.00	0.6
900MA-8S	1/2	1.13	5.00	1.2


020B1018

TYPES NRV AND NRVH VERSION 2

NRV and NRVH piston type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant so as to prevent backflow.

- Ensure correct flow direction
- Available in both straightway and angleway versions
- Hermetic tight design for solder versions
- Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor
- NRVH type check valve is with stronger spring and is recommended to use for compressors in parallel (i.e. power packs) where higher level of pulsation and vibration are expected
- Max operating pressure: 710 psig

ENGINEERING TOMORROW Danfoss

Part No.	Connection Size (In.)	Overall Length (In.)	Capacity (Tons)
020B1018	5/8	5.47	2.25
020B1011	3/8	4.29	0.8
020B1019	3/4	6.50	3.68
020B1010	1/4	3.62	0.2
020B1058	1/2	4.29	0.8
020B1012	1/2	5.16	1.42

AMMONIA/REFRIGERANT SHUTOFF


7761

PURGE/OIL/GAUGE

- Valve body: forged steel
- Seal cap, angle
- Non-backseating valves
- Maximum working pressure: 1000 psi

HENRY TECHNOLOGIES

- Temperature rating: -20°F to +300°F

	Connection			
Part No.	Size (In.)	Width (In.)	Length (In.)	Ship Wgt (Lbs.)
7761	1/4	1.25	3.85	0.50
7771	1/4	1.25	3.85	0.33
7773	3/8	1.50	4.80	1.20

AMMONIA/REFRIGERANT RELIEF


5602250

RELIEF ANGLE

- Temperature rating: -20°F to +275°F
- Cast iron body
- Stainless steel seat inserts, seat discs, main guides

HENRY TECHNOLOGIES

- Connection: FPT x FPT

	Connection Size (In.)				
Part No.	Bottom Inlet	Side Outlet	Pressure Setting (psi)	Overall Height (In.)	Overall Length (In.)
5602250	3/4	1	250	4.97	3.00

AMMONIA/REFRIGERANT FLANGE

UNION VALVE FLANGE

When ordering flanges for bare valves, the required bolts and nuts will be included with the valve.

- Forged steel
- Shipped as a pair-male/female with gaskets
- Maximum working pressure: sizes 1/2" thru 2"-1,500 psi sizes 2 1/2" thru 4"-500 psi
- Temperature rating: -20°F to +325°F


S2PT114X1K

SQUARE/4 BOLT/FPT

HENRY TECHNOLOGIES

	Connection		
Part No.	Size (In.)	Valve Size (In.)	Ship Wgt (Lbs.)
S2PT114X1K	1	1 1/4	5.25


02PT1

OVAL/2 BOLT/FPT

HENRY TECHNOLOGIES

	Connection		
Part No.	Size (In.)	Valve Size (In.)	Ship Wgt (Lbs.)
02PT1	1	1	4.07

SEALED


C167S

DRIER, ODS

The Liquid Line Sealed Model Filter-driers - Sporlan Catch-All® Series provide unparalleled control of the most harmful contaminants in HVAC&R systems. Moisture, acids, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance air-conditioning and refrigeration systems. With multiple sizes and fitting configurations, it is easy to find the right model for systems up to 20 tons.

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C167S*	7/8	ODS	16.0	6.93
C307S*	7/8	ODS	30.0	9.80
C417S*	7/8	ODS	41.0	9.81
C607S*	7/8	ODS	60.0	16.00
C0825S*	5/16	ODS	8.0	5.31
C1625S*	5/16	ODS	16.0	5.94
C165S*	5/8	ODS	16.0	6.31
C305S*	5/8	ODS	30.0	9.25
C415S*	5/8	ODS	41.0	9.35
C033S*	3/8	ODS	3.0	3.88
C053S*	3/8	ODS	5.0	4.31
C083S*	3/8	ODS	8.0	5.25
C163S*	3/8	ODS	16.0	5.88
C303S*	3/8	ODS	30.0	8.88
C306S*	3/4	ODS	30.0	9.65
C052S*	1/4	ODS	5.0	4.19
C082S*	1/4	ODS	8.0	5.12
C162S*	1/4	ODS	16.0	5.75
C084S*	1/2	ODS	8.0	5.44
C414S*	1/2	ODS	41.0	9.05
C164S*	1/2	ODS	16.0	6.00
C304S*	1/2	ODS	30.0	9.00
C032S*	1/4	ODS	3.0	3.81
C309S*	1 1/8	ODS	30.0	9.75
C419S*	1 1/8	ODS	41.0	9.75
C609S*	1 1/8	ODS	60.0	16.00


C032CAP

DRIER, ODS

- C032CAP driers allow you to pinch down copper ends to capillary tubing size
- C032CAPT has an access port on the inlet side
- C052CAPTTHH has access port on both sides and high acid removal for cleanup after burnouts

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C032CAP*	1/4	ODS	3.0	5.81
C032CAPT*[1]	1/4	ODS	3.0	5.81
C052CAPTTHH*[2]	1/4	ODS	5.0	5.71

[1] access port [2] dual access ports, high acid


C165

DRIER, FLARE

- Connection: M flare x M flare

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C165*	5/8	MFL x MFL	16.0	7.25
C305*	5/8	MFL x MFL	30.0	10.19
C415*	5/8	MFL x MFL	41.0	10.25
C033*	3/8	MFL x MFL	3.0	4.69
C053*	3/8	MFL x MFL	5.0	5.19
C083*	3/8	MFL x MFL	8.0	6.06
C163*	3/8	MFL x MFL	16.0	6.75
C303*	3/8	MFL x MFL	30.0	9.69
C413*	3/8	MFL x MFL	41.0	9.56
C032*	1/4	MFL x MFL	3.0	4.19
C052*	1/4	MFL x MFL	5.0	4.75
C082*	1/4	MFL x MFL	8.0	5.62
C162*	1/4	MFL x MFL	16.0	6.25
C084*	1/2	MFL x MFL	8.0	6.31
C164*	1/2	MFL x MFL	16.0	6.94
C304*	1/2	MFL x MFL	30.0	9.88
C414*	1/2	MFL x MFL	41.0	9.94

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


C032F

DRIER, FLARE

- F: connection Male flare inlet x Female flare outlet
- FM: connection Female flare inlet x Male flare outlet

SPORLAN

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C032F*	1/4	MFL inlet x FFL outlet	3.0	3.81
C052F*	1/4	MFL inlet x FFL outlet	5.0	4.75
C032FM*	1/4	FFL inlet x MFL outlet	3.0	3.81


C30E5

SEALED DRIER

SPORLAN

	Connection		
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)
C30E5*	7/8	Rotolock	30.0


CSG165S

DRIER-SIGHTGLASS, ODS

- Drier sightglass combination for installation convenience

SPORLAN

	Connection		
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)
CSG165S*	5/8	ODS	16.0
CSG305S*	5/8	ODS	30.0
CSG083S*	3/8	ODS	8.0
HPCSG103S*[1]	3/8	ODS	10.0
CSG163S*	3/8	ODS	16.0
CSG084S*	1/2	ODS	8.0
CSG164S*	1/2	ODS	16.0
CSG304S*	1/2	ODS	30.0

[1] heat pump


EK032FM

LIQUID DRIER, FLARE

The EK Liquid Line filter drier is a premium compacted bead filter drier with a 20 micron outlet pad for maximum filtration. The EK is a premium universal replacement liquid line filter drier for CFC, HCFC and HFC refrigerants including R-12, R-134a, R-22, R-404A, R-407C, R-410A, R-500, R-502, and R-507.

- Filtration first for more effective use of surface area of desiccant
- High moisture and acid removal capacity
- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- Approved for POE oils with Copeland™ compressors
- Shock resistant steel shell construction
- FM: F flare inlet x M flare outlet @ MF: M flare inlet x F flare outlet

EMERSON

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
EK032FM*	1/4	FFL inlet x MFL outlet	3.0	3.50	1/2
EK032MF*	1/4	MFL inlet x FFL outlet	3.0	3.50	1/2
EK052MF*	1/4	MFL inlet x FFL outlet	5.0	4.50	3/4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEALED



EK165

LIQUID DRIER, FLARE

- Connection: M flare inlet x M flare outlet

EMERSON

Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
	Size (In.)	Type			
EK165*	5/8	MFL inlet x MFL outlet	16.0	7.50	7 1/2
EK305*	5/8	MFL inlet x MFL outlet	30.0	10.31	10
EK033*	3/8	MFL inlet x MFL outlet	3.0	4.69	3/4
EK053*	3/8	MFL inlet x MFL outlet	5.0	5.13	1
EK083*	3/8	MFL inlet x MFL outlet	8.0	5.94	3
EK163*	3/8	MFL inlet x MFL outlet	16.0	6.88	6
EK303*	3/8	MFL inlet x MFL outlet	30.0	9.63	4 1/2
EK084*	1/2	MFL inlet x MFL outlet	8.0	6.19	5
EK164*	1/2	MFL inlet x MFL outlet	16.0	7.06	6
EK304*	1/2	MFL inlet x MFL outlet	30.0	9.88	7 1/2
EK414*	1/2	MFL inlet x MFL outlet	41.0	10.00	10
EK032*	1/4	MFL inlet x MFL outlet	3.0	4.38	3/4
EK052*	1/4	MFL inlet x MFL outlet	5.0	4.81	1
EK082*	1/4	MFL inlet x MFL outlet	8.0	5.63	1 1/2
EK162*	1/4	MFL inlet x MFL outlet	16.0	6.56	2



EK167S

LIQUID DRIER, ODS

- Connection: ODF inlet x ODF outlet

EMERSON

Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
	Size (In.)	Type			
EK167S*	7/8	ODF inlet x ODF outlet	16.0	7.50	7 1/2
EK307S*	7/8	ODF inlet x ODF outlet	30.0	9.88	12 1/2
EK417S*	7/8	ODF inlet x ODF outlet	41.0	10.00	15
EK757S*	7/8	ODF inlet x ODF outlet	75.0	15.44	20
EK165S*	5/8	ODF inlet x ODF outlet	16.0	6.56	7 1/2
EK305S*	5/8	ODF inlet x ODF outlet	30.0	9.31	10
EK415S*	5/8	ODF inlet x ODF outlet	41.0	9.44	12 1/2
EK033S*	3/8	ODF inlet x ODF outlet	3.0	4.06	3/4
EK053S*	3/8	ODF inlet x ODF outlet	5.0	4.50	1
EK083S*	3/8	ODF inlet x ODF outlet	8.0	5.31	3
EK163S	3/8	ODF inlet x ODF outlet	16.0	6.25	6
EK303S*	3/8	ODF inlet x ODF outlet	30.0	9.00	4 1/2
EK032S*	1/4	ODF inlet x ODF outlet	3.0	3.88	3/4
EK052S*	1/4	ODF inlet x ODF outlet	5.0	4.44	1
EK082S*	1/4	ODF inlet x ODF outlet	8.0	5.25	1 1/2
EK162S*	1/4	ODF inlet x ODF outlet	16.0	6.19	2
EK084S*	1/2	ODF inlet x ODF outlet	8.0	5.38	5
EK164S*	1/2	ODF inlet x ODF outlet	16.0	6.31	6
EK304S*	1/2	ODF inlet x ODF outlet	30.0	9.13	7 1/2
EK414S*	1/2	ODF inlet x ODF outlet	41.0	9.25	10
EK309S*	1 1/8	ODF inlet x ODF outlet	30.0	10.25	12 1/2
EK419S*	1 1/8	ODF inlet x ODF outlet	41.0	10.31	15
EK759S*	1 1/8	ODF inlet x ODF outlet	75.0	15.75	25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ADK417S

LIQUID DRIER, ODS

The ADK is a solid core liquid line filter drier good for use with CFC, HCFC, and HFC refrigerants.

- Desiccant Blend: optimized for high water capacity and acid capacity
- Filtration: 40 microns
- Maximum working pressure: 680 psig
- Connection: ODF inlet x ODF outlet

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
ADK417S*	7/8	ODF inlet x ODF outlet	41.0	10.00	15
ADK083S	3/8	ODF inlet x ODF outlet	8.0	5.97	4.60
ADK052S*	1/4	ODF inlet x ODF outlet	5.0	4.44	1
ADK759S*	1 1/8	ODF inlet x ODF outlet	75.0	15.75	25


ADK053

LIQUID DRIER, FLARE

- Connection: M flare inlet x M flare outlet

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
ADK053	3/8	MFL inlet x MFL outlet	5.0	5.13	1
ADK303	3/8	MFL inlet x MFL outlet	30.0	9.63	4 1/2
ADK414*	1/2	MFL inlet x MFL outlet	41.0	10.00	10


ALF034S

LIQUID LINE FILTER

The ALF is a liquid line refrigerant filter for recovery, recycle and reclaim usage. Also used for protecting solenoid and expansion valve parts from debris.

- Filtering media that maximizes removal of finer particles
- Corrosion resistant epoxy powder paint finish.
- Filtration: 40 microns
- Maximum working pressure: 680 psig
- Recovery, Recycle and Reclaim Refrigerant Flow Capacity (lbs./min. liquid):

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
ALF034S	1/2	ODF	4.30


023Z5019

THE ELIMINATOR®, LIQUID DRIER, ODS

All ELIMINATOR® driers have a solid core with binding material held to an absolute minimum. There are two types of ELIMINATOR® cores. Type DML/DMLE driers have a core composition of 100% Molecular Sieve, while type DCL/DCLE contain 80% Molecular Sieve with 20% activated alumina. ELIMINATOR® type DML/DMLE driers are designed for applications requiring the highest moisture capacity. ELIMINATOR® type DML/DMLE driers are designed for applications requiring high moisture capacity and acid adsorption capacity.

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
023Z5019	3/8	ODS	5.0	4.50
023Z5023	3/8	ODS	8.0	5.47
023Z5013	1/4	ODS	3.0	3.88
023Z5018	1/4	ODS	5.0	4.20
023Z5032	1/2	ODS	16.0	5.98


023Z5002

THE ELIMINATOR®, LIQUID DRIER, FLARE

All ELIMINATOR® driers have a solid core with binding material held to an absolute minimum. There are two types of ELIMINATOR® cores. Type DML/DMLE driers have a core composition of 100% Molecular Sieve, while type DCL/DCLE contain 80% Molecular Sieve with 20% activated alumina. ELIMINATOR® type DML/DMLE driers are designed for applications requiring the highest moisture capacity. ELIMINATOR® type DML/DMLE driers are designed for applications requiring high moisture capacity and acid adsorption capacity.

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
023Z5002	1/4	MFL	5.0	4.69
023Z5004	1/4	MFL	8.0	5.71

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEALED



023Z8261

THE ELIMINATOR®, LIQUID DRIER, WITH SHRADER VALVE

The Danfoss capillary tube filter driers include a Schrader valve, making servicing the system easy and convenient, and convertible outlet for fitting on capillary tube or 1?4 inch system connection. Thanks to the solid core, Danfoss ELIMINATOR® filter driers offer exceptional drying capacity to protect the system against harmful acids and moisture.

ENGINEERING TOMORROW Danfoss

	Connection		
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)
023Z8261	1/4	Solder, ODF	1.5
023Z5174	1/4	Solder, ODF	3.0



C417SHH

CHARCOAL CORE DRIER, ODS

The Liquid Line Sealed Model Filter-driers - Sporlan Catch-All® Series provide unparalleled control of the most harmful contaminants in HVAC&R systems. Moisture, acids, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance air-conditioning and refrigeration systems.

- Complete contaminant control to protect and extend system life and ensure system reliability
- High performance desiccant package provides high water capacity & acid capacity
- Porous molded core provides excellent filtration of solid debris for TEV and compressor protection
- Sizes from 3 cu. in. to 60 cu. in. and 1/4" to 1-1/8" fittings for use up to 20 tons cooling capacity
- Models available with activated charcoal for use during system clean-up
- Suitable for use with HCFC, HFC, HFO, and HC refrigerants
- Liquid line drying and filtering for solid contaminant removal
- Hot gas defrost line filtering

SPORLAN

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C417SHH*	7/8	ODS	41.0	9.81
C165SHH*	5/8	ODS	16.0	6.31
C305SHH*	5/8	ODS	30.0	9.25
C053SHH*	3/8	ODS	5.0	4.31
C083SHH*	3/8	ODS	8.0	5.25
C163SHH*	3/8	ODS	16.0	5.88
C303SHH*	3/8	ODS	30.0	8.88

Continued on next page

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C052SHH*	1/4	ODS	5.0	4.26
C082SHH*	1/4	ODS	8.0	5.12
C162SHH*	1/4	ODS	16.0	5.75
C164SHH*	1/2	ODS	16.0	6.00
C304SHH*	1/2	ODS	30.0	9.00



C165HH

CHARCOAL DRIER, FLARE

Catch-All® Filter-Driers

- Leak-proof shell
- Solid copper sweat fittings
- Outlet safety filter
- Molded porous core of blended desiccants for maximum containment acid, and moisture removal
- Will filter out scale, solder particles, carbon, sludge, dirt, or any foreign matter with negligible pressure drop
- Removes moisture and acid from the refrigerant by absorbing and retaining it deep within the desiccant granules
- "C" Series Liquid Line Catch-All® Filter-Drier for Wax Removal - Sealed Type
- Maximum working pressure: 650 psi
- For all commercially available HCFC and HFC refrigerant/lubricant combinations
- HH Core - A blend of two desiccants removes all types of contaminants including moisture, acid, dirt and sludge; plus activated charcoal gives maximum performance

SPORLAN

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
C165HH*	5/8	Flare	16.0	7.25
C305HH*	5/8	Flare	30.0	10.19
C415HH*	5/8	Flare	41.0	10.25
C053HH*	3/8	Flare	5.0	5.19
C083HH*	3/8	Flare	8.0	6.06
C163HH*	3/8	Flare	16.0	6.75
C303HH*	3/8	Flare	30.0	9.69
C052HH*	1/4	Flare	5.0	4.75
C082HH*	1/4	Flare	8.0	5.62
C162HH*	1/4	Flare	16.0	6.25
C164HH*	1/2	Flare	16.0	6.94
C304HH*	1/2	Flare	30.0	9.88
C414HH*	1/2	Flare	41.0	9.94

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


HPC103

REVERSIBLE HEAT PUMP DRIER

The Heat Pump Liquid Line Filter-driers - Sporlan HPC Series provide unparalleled control of the most harmful contaminants in HVAC&R systems. Moisture, acids, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance heat pump air-conditioning systems.

- Complete contaminant control to protect and extend system life and ensure system reliability
- High performance desiccant package provides high water capacity & acid capacity
- Porous molded core provides excellent filtration of solid debris for TEV and compressor protection
- Internal Stainless Steel check valves always direct flow through the core to ensure solid debris is retained when the systems reverses cycle
- Sizes from 8 cu. in. to 30 cu. in. and 1/4" to 7/8" fittings for use up to 20 tons cooling capacity
- Models available with activated charcoal for use during system clean-up
- Suitable for use with HCFC, HFC, HFO, and HC refrigerants
- Liquid line drying and filtering for solid contaminant removal

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons
HPC103*	3/8	Flare	10.0	6.75	1-5
HPC104*	1/2	Flare	10.0	6.94	1-5
HPC104S*	1/2	ODF	10.0	6.00	1-5
HPC163S*	3/8	ODF	16.0	6.92	1-8
HPC305S*	5/8	ODF	30.0	10.42	8-20
HPC307S*	7/8	ODF	30.0	11.02	8-20
HPC163HH*	3/8	Flare	14.0	7.78	1-8
HPC164HH*	1/2	Flare	14.0	7.95	1-8
HPC165HH*	5/8	Flare	14.0	8.28	1-8
HPC305HH*	5/8	Flare	30.0	11.38	8-20
HPC163SHH*	3/8	ODF	14.0	6.92	1-8
HPC164SHH*	1/2	ODF	14.0	7.07	1-8
HPC165SHH*	5/8	ODF	14.0	7.35	1-8
HPC304SHH*	1/2	ODF	30.0	10.18	8-20
HPC305SHH*	5/8	ODF	30.0	10.42	8-20
HPC307SHH*	7/8	ODF	30.0	11.02	8-20


BFK165

HEAT PUMP DRIER

Internal check valves allow flow and filtration in either direction. The BFK filter-drier is UL listed for 680 psig maximum working pressure for all sizes through 30 cubic inches. These sizes are suitable for use with R410A.The BFK is a solid core, Bi-directional, liquid line filter drier for heat pump applications for use with CFC, HCFC, and HFC refrigerants.

- Desiccant blend-75% molecular sieve and 25% activated alumina
- Ratings are flow capacity R22, 1 psi ?P, 86°F liquid temperature, 5°F saturated vapor temperature, 2.9 lb./min./tons of refrigeration (ARI Standard 710-86)

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)
BFK165*	5/8	MFL	16.0	7.44	8.3
BFK083*	3/8	MFL	8.0	6.06	4.5
BFK163*	3/8	MFL	16.0	6.75	4.6
BFK052*	1/4	MFL	5.0	4.82	1.6
BFK084*	1/2	MFL	8.0	6.25	6.4
BFK164*	1/2	MFL	16.0	6.94	7.7
BFK053S*	3/85	ODF	5.0	4.49	4.0
BFK083S*	3/8	ODF	8.0	5.44	5.1
BFK163S	3/8	ODF	16.0	6.13	5.2
BFK084S*	1/2	ODF	8.0	5.50	6.7
BFK164S*	1/2	ODF	16.0	6.19	8.1


023Z1433

HEAT PUMP DRIER, BI-FLOW

Bi-flow filter driers, type DCB, are for use in liquid lines on heat pumps.
Bi-flow filter driers have built-in check valves which ensure that refrigerant liquid always flows through the fi lter driers from the outer side of the fi lter core towards the center. Thus all dirt particles are retained irrespective of fl ow direction.

- Used in heat pumps with HCFC refrigerants and mineral oil, and HFC refrigerants and polyolester oil
- 80% Molecular Sieve with 20% activated alumina
- Connection: ODF inlet x ODF outlet
- Maximum working pressure up to 667 PSIG
- Effective dirt removal to 25 µm
- Temperature range: -40°F to 160°F

	Connection			
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)
023Z1433	3/8	ODS	8.0	5.60
023Z1437	3/8	ODS	16.0	5.90

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

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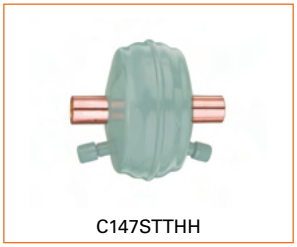
C167STHH

SUCTION LINE FILTER DRIER

Catch-All® Filter-Driers

- Leak-proof shell
- Solid copper sweat fittings
- Outlet safety filter
- Molded porous core of blended desiccants for maximum containment acid, and moisture removal
- Will filter out scale, solder particles, carbon, sludge, dirt, or any foreign matter with negligible pressure drop
- Removes moisture and acid from the refrigerant by absorbing and retaining it deep within the desiccant granules
- "C" Series Suction Line Catch-All® Filter-Drier for Wax Removal - Sealed Type
- For all commercially available HCFC and HFC refrigerant/lubricant combinations
- HH Core - A blend of two desiccants removes all types of contaminants including moisture, acid, dirt and sludge; plus activated charcoal gives maximum performance

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Recommend-ed HP
C167STHH*	7/8	ODF	16.0	6.93	3.0
C307STHH*	7/8	ODF	30.0	9.80	5.0
C417STHH*	7/8	ODF	41.0	9.81	5.0
C165STHH*	5/8	ODF	16.0	6.31	2.0
C305STHH*	5/8	ODF	30.0	9.25	3.0
C083STHH*	3/8	ODF	8.0	5.25	0.75
C166STHH*	3/4	ODF	16.0	6.75	2.0
C306STHH*	3/4	ODF	30.0	9.65	3.0
C084STHH*	1/2	ODF	8.0	5.44	1.0
C164STHH*	1/2	ODF	16.0	6.00	2.0
C4313STHH*	1 5/8	ODF	48.0	10.94	10.0
C4311STHH*	1 3/8	ODF	48.0	10.94	10.0
C309STHH*	1 1/8	ODF	30.0	9.75	5.0
C419STHH*	1 1/8	ODF	41.0	9.75	7.5
C439STHH*	1 1/8	ODF	48.0	10.74	7.5



C147STTHH

COMPACT SUCTION FILTER DRIER

Catch-All® Filter-Driers

- Leak-proof shell
- Solid copper sweat fittings
- Outlet safety filter
- Molded porous core of blended desiccants for maximum containment acid, and moisture removal
- Will filter out scale, solder particles, carbon, sludge, dirt, or any foreign matter with negligible pressure drop
- Removes moisture and acid from the refrigerant by absorbing and retaining it deep within the desiccant granules
- "C" Series Compact Suction Line Catch-All® Filter-Drier for Wax Removal
- Compact design for tight spaces
- Shorter overall length suitable for cramped piping situation
- Suitable for use on 1 thru 5 ton air conditioning systems, with suction line sizes in range of 1/2 to 1-1/8; applicable on the common suction line of heat pump systems
- Access valves for measuring the pressure drop across the filter-drier during clean-up, following a hermetic motor burnout
- For all commercially available HCFC and HFC refrigerant/lubricant combinations
- Very smooth, strong, entirely leak-proof joint
- HH Core - A blend of two desiccants removes all types of contaminants including moisture, acid, dirt and sludge; plus activated charcoal gives maximum performance
- T - Indicates a Schrader type pressure tap on the inlet of the Catch-All
- UL Listed

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Recommend-ed HP
C147STTHH*	7/8	ODF	14.0	4.97	5.0
C145STTHH*	5/8	ODF	14.0	4.38	3.0
C146STTHH*	3/4	ODF	14.0	4.83	3.0
C149STTHH*	1 1/8	ODF	14.0	4.93	5.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ASD45S7VV

SUCTION DRIER

Emerson's ASD suction line filter-driers incorporate the protective filter plus a desiccant specially blended for maximum moisture and acid removal.

- Dessicant is bead type
- Low pressure drop-full flow fittings
- Dual access valves
- Solid copper fittings
- Ratings are maximum flow capacity at 40°F evaporator, R22, 3 psi ?P tons of refrigeration (ARI standard 780-36)
- Connections: ODF inlet and outlet
- Maximum working pressure: 500 psig

EMERSON

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)
ASD45S7VV*	7/8	ODF inlet and outlet	45.0	7.94	9.2
ASD35S5VV*	5/8	ODF inlet and outlet	35.0	7.56	5.8
ASD28F3*[1]	3/8	ODF inlet and outlet	28.0	5.59	N/A
ASD28S3VV*	3/8	ODF inlet and outlet	28.0	5.59	2.3
ASD45S6VV*	3/4	ODF inlet and outlet	45.0	6.53	7
ASD75S13VV*	1 5/8	ODF inlet and outlet	75.0	12.16	17.3
ASD75S11VV*	1 3/8	ODF inlet and outlet	75.0	12.25	16.2
ASD50S9VV*	1 1/8	ODF inlet and outlet	50.0	8.84	13.2

[1] Connections are M. Flare for oil line usage


ASK165SVVHH

SUCTION FILTER DRIER

The ASK utilizes a solid core with an activated carbon blend to maximize acid, moisture and wax removal. It is for use with CFC, HCFC and HFC refrigerant

- Dual access valves for easy pressure readings
- Connection: ODF inlet and outlet
- Maximum working pressure: 500 psig
- Ratings are maximum flow capacity at 40°F evaporator, R410A, 3 psi ?P tons of refrigeration

EMERSON

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)
ASK165SVVHH*	5/8	ODF inlet and outlet	16.0	6.38	4.1
ASK166SVVHH*	3/4	ODF inlet and outlet	16.0	6.75	5.1
ASK167SVVHH*	7/8	ODF inlet and outlet	16.0	6.94	5.6


SFD13S7VV

SUCTION DRIER

The SFD is a standard suction line filter drier for use after a burnout or when major work has been performed. It is for use with CFC, HCFC and HFC refrigerants.

- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- R-410A compatible
- Smaller profile than ASD
- Desiccant is bead type
- Maximum working pressure: 400 psig
- Dual access valves
- Ratings are maximum flow capacity at 40°F evaporator, R22, 3psi ?P tons of refrigeration (ARI Standard 730-36)

EMERSON

	Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)
SFD13S7VV*	7/8	ODF	13.0	5.75	7.2
SFD27S7VV*	7/8	ODF	27.0	7.50	7.5
SFD13S5VV*	5/8	ODF	13.0	5.16	4.9
SFD13S6VV*	3/4	ODF	13.0	5.25	6.4
SFD13S4VV*	1/2	ODF	13.0	4.94	3.5
SFD13F4VV*	1/2	MFL	13.0	5.75	2.4
SFD27S9VV*	1 1/8	ODF	27.0	7.63	8.5


SF6417T

SUCTION FILTER/SINGLE DIRECTION

The Sporlan SF series Suction Filters remove solid debris and contaminants down to 25 microns to protect the compressor and ensure long system life. For refrigeration and air conditioning systems up to 100 Tons.

- Removes all types of system debris to protect the compressor
- Sizes from 11 sq. in. 388 sq. in. of filtration area
- Suitable for use with HCFC, HFC, HFO, and HC refrigerants
- Suction filtering of solid debris and contaminants
- T Suffix models have tap

SPORLAN

	Connection				
Part No.	Size (In.)	Type	Filter Area (Sq In)	Overall Length (In.)	Recommended HP
SF6417T*	2 1/8	ODF	388	10.94	55.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

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SF287T

SUCTION FILTER/BI-DIRECTIONAL

When flow is in one direction, the bypass relief feature is active. If the pressure drop across the element becomes excessive, the bypass relief will open slightly to maintain sufficient gas flow and assure proper cooling of the hermetic motor. When the suction filter is installed with flow in the opposite direction, the bypass relief feature is inactive and will never open, regardless of the increase in pressure drop. The T suffix in the part number indicates that these models are equipped with an access valve to permit pressure drop readings. The access valve will be operational provided the suction filters are installed with the bypass feature inactive

SPORLAN

	Connection				
Part No.	Size (In.)	Type	Filter Area (Sq In)	Overall Length (In.)	Recommend-ed HP
SF287T*	7/8	ODF	28	8.93	7.5
SF285FT*	5/8	MFL	28	8.34	4.0
SF285T*	5/8	ODF	28	8.34	4.0
SF283F*	3/8	MFL	28	8.78	1.0
SF286T*	3/4	ODF	28	8.79	5.0
SF4813T*	1 5/8	ODF	48	13.44	15.0
SF4811T*	1 3/8	ODF	48	13.10	12.0
SF289T*	1 1/8	ODF	28	9.51	7.5
SF489T*	1 1/8	ODF	48	12.42	10.0



CSFD14S7VV

SUCTION FILTER

- The CSFD has a compact 14 cubic inch, solid block desiccant core, design that is perfect for short lay-ins
- For use with CFC, HCFC and HFC refrigerants
- Dual access valves
- High acid removal
- Connection: ODF Inlet and Outlet
- Body length: 2 3/4"
- Diameter: 4 5/8"
- Flow capacity R22, 40°F Evaporator, 3 lb ?P

EMERSON

	Connection			
Part No.	Size (In.)	Type	Overall Length (In.)	Flow (Tons)
CSFD14S7VV*	7/8	ODF Inlet and Outlet	4.56	5.2
CSFD14S5VV*	5/8	ODF Inlet and Outlet	4.50	3.6
CSFD14S6VV*	3/4	ODF Inlet and Outlet	4.38	4.9
CSFD14S4VV*	1/2	ODF Inlet and Outlet	4.25	2
CSFD14S9VV*	1 1/8	ODF Inlet and Outlet	4.88	7



ASF28S7VV

SUCTION FILTER

Emerson's ASF suction line filters are specifically designed to protect the compressor from dirt and all solid contaminants.

- Connection: ODF inlet and outlet
- Dual access valves
- Ratings are maximum flow capacity at 40°F evaporator, R22, 3 psi ?P tons of refrigeration (ARI Standard 730-36)

EMERSON

	Connection			
Part No.	Size (In.)	Type	Overall Length (In.)	Dessicant Volume (Cu. In.)
ASF28S7VV*	7/8	ODF inlet and outlet	7.41	28.0
ASF45S7VV*	7/8	ODF inlet and outlet	7.94	45.0
ASF28S3VV*	3/8	ODF inlet and outlet	5.59	28.0
ASF75S13VV*	1 5/8	ODF inlet and outlet	12.16	75.0
ASF64S17V*	2 1/8	ODF inlet and outlet	11.75	64.0

SHELL

DRIER SHELL, ODF

The bolt and nut attachment of the end plate allows for simple trouble-free installation. The nuts lock against the side of the shell for ease in tightening. The internal tie-rod construction permits assembling of the cores to the end plate and then inserting the entire assembly.

- Copper fittings for fast easy soldering
- All internal parts are plated steel-no plastic parts



C485G

DRIER SHELL, ODF

- Suggested tonnage is for field replacement in air conditioning systems, R22, liquid line
- Permanent strainer screen

SPORLAN

	Connection					
Part No.	Size (In.)	Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22
C485G*	5/8	ODF	1	9.15	4.75	10
C487G*	7/8	ODF	1	9.30	4.75	15
C967G*	7/8	ODF	2	14.84	4.75	25
C4813G*	1 5/8	ODF	1	9.60	4.75	N/A
C9613G*	1 5/8	ODF	2	15.14	4.75	N/A
C14413G*	1 5/8	ODF	3	20.68	4.75	N/A
C19213G*	1 5/8	ODF	4	26.22	4.75	80
C4811G*	1 3/8	ODF	1	9.60	4.75	N/A

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Part No.	Connection Size (In.)	Connection Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22
C9611G*	1 3/8	ODF	2	15.14	4.75	N/A
C14411G*	1 3/8	ODF	3	20.68	4.75	50
C19211G*	1 3/8	ODF	4	26.22	4.75	70
C489G*	1 1/8	ODF	1	9.50	4.75	20
C969G*	1 1/8	ODF	2	15.04	4.75	35
C1449G*	1 1/8	ODF	3	20.58	4.75	40
C40021G*	2 5/8	ODF	4	34.75	6.00	N/A
C19217G*	2 1/8	ODF	4	26.22	4.75	85
C40017G*	2 1/8	ODF	4	34.56	6.00	130


RSF487T

SUCTION SHELL, ODF

The Suction Line Replaceable Model Filter-Driers - Sporlan Catch-All® Series provide unparalleled control of the most harmful contaminants in HVAC&R systems and for clean-up after a compressor motor burn-out. Moisture, acids, sludge, varnish, wax, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance air-conditioning and refrigeration systems.

Features/Benefits

- Activated charcoal core removes all types of system contaminants following a compressor motor burn-out
- High performance desiccant package provides high water capacity & acid capacity
- Porous molded core provides excellent filtration of solid debris for TEV and compressor protection
- Sizes from 8 cu. in. to 60 cu. in. and 3/8" to 1-1/8" fittings for use up to 10 tons cooling capacity
- Suitable for use with HCFC, HFC, HFO, and HC refrigerants
- Use with R48 cores; capacity is for R22, air conditioning, 3 lb. pressure drop with cores used temporarily and replaced with filter
- Bidirectional if drier cores are not used but not in same application

Part No.	Connection Size (In.)	Connection Type	Nb. of Elements	Overall Length (In.)	Suggested Tonnage R22
RSF487T*	7/8	ODF	1	9.30	20
RSF4813T*	1 5/8	ODF	1	9.60	25
RSF9613T*	1 5/8	ODF	2	14.96	40
RSF4811T*	1 3/8	ODF	1	9.60	25
RSF9611T*	1 3/8	ODF	2	14.96	30
RSF489T*	1 1/8	ODF	1	9.37	20
RSF4821T*	2 5/8	ODF	1	9.75	30
RSF9621T*	2 5/8	ODF	2	15.43	50
RSF4817T*	2 1/8	ODF	1	9.37	30
RSF9617T*	2 1/8	ODF	2	14.96	40
RSF9625T*	3 1/8	ODF	2	15.12	50


STAS487T

LIQUID

The STAS is a replaceable core filter drier for CFC, HCFC, and HFC refrigerants for use in large commercial air conditioning and refrigeration systems. The STAS-CO is specifically designed for CO2 (R-744) systems.

- Slotted cover/unique internal hardware for hassle-free installation
- Full flow fittings for low pressure drop
- Corrosion resistant epoxy powder paint finish
- Sturdy steel shells for long life
- Solid copper connections
- 100 mesh outlet screen

Part No.	Connection Size (In.)	Connection Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22
STAS487T*	7/8	ODF inlet and outlet	1	9.69	4.75"	12.5
STAS967T*	7/8	ODF inlet and outlet	2	15.19	4.75"	25
STAS9613T*	1 5/8	ODF inlet and outlet	2	15.38	4.75"	40
STAS4811T*	1 3/8	ODF inlet and outlet	1	9.84	4.75"	20
STAS9611T*	1 3/8	ODF inlet and outlet	2	15.31	4.75"	35
STAS489T*	1 1/8	ODF inlet and outlet	1	9.75	4.75"	15
STAS969T*	1 1/8	ODF inlet and outlet	2	15.22	4.75"	30


STAS4811SV

SUCTION

- Ratings are maximum flow capacity in tons at 40° evaporator, R22, 3 psi ?P with drier cartridges
- Connection: ODF inlet and outlet
- Modified for suction line service

Part No.	Connection Size (In.)	Connection Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Flow Capacity
STAS4811SV*	1 3/8	ODF inlet and outlet	1	9.84	4.75"	15
STAS4821SV*	2 5/8	ODF inlet and outlet	1	10.44	4.75"	40
STAS9625SV*	3 1/8	ODF inlet and outlet	2	15.69	4.75"	64

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SHELL



ADKS30017T

LARGE VOLUME

The ADKS is a replaceable core filter drier for use with CFC, HCFC, and HFC refrigerants in very large commercial air conditioning and refrigerant systems.

- Full flow fittings for low pressure drop
- Corrosion resistant epoxy powder paint finish
- Sturdy steel shells for long life durability
- Nominal inside size: 6”
- Ratings are suggested tonnage, field replacement, R22 air conditioning

COPELAND

	Connection				
Part No.	Size (In.)	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22
ADKS30017T*	2 1/8	3	25.59	6”	115



CR427

SMALL DIAMETER

- Use with RC4267 core
- Capacity is for R22, air conditioning, 3 lb. pressure drop, field replacement
- Nominal inside diameter: 3.5”

SPORLAN

	Connection					
Part No.	Size (In.)	Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22
CR427*	7/8	ODF	1	9.44	3.5”	10
CR425G*	5/8	ODF	1	9.06	3.5”	10



BTAS421SV

BRASS SHELL

The Copeland BTAS for suction line service is ideal for commercial refrigeration applications. It is corrosion- and rust- resistant with stainless steel bolts and has the flexibility of using either filter driers or filter cartridges.

- Ratings are maximum flow capacity at 40° evaporator, R22, 3 psi ?P with drier cartridges in tons of refrigeration (ARI Standard 730-86)
- Full flow fittings for low pressure drop
- Corrosion free brass body
- Connection: ODF inlet and outlet

EMERSON

	Connection			
Part No.	Size (In.)	Type	Overall Length (In.)	Flow Capacity
BTAS421SV*	2 5/8	ODF inlet and outlet	12.41	44.0
BTAS317SV*	2 1/8	ODF inlet and outlet	11.50	28.0
BTAS525SV*	3 1/8	ODF inlet and outlet	13.25	72.0



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C966P

DRIER SHELL, FPT

- Pipe thread connections
- Use with R48 cores
- Designed for ammonia systems
- Do not use RPE core for ammonia
- Nominal inside diameter: 4.75”

	Connection				
Part No.	Size (In.)	Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)
C966P*	3/4	FTP	2	14.67	4.75”
C484P*	1/2	FTP	1	9.08	4.75”
C19212P*	1 1/2	FTP	4	25.85	4.75”

STRAINER


6023

“Y” STRAINER

Designed for either liquid or suction line applications. They provide free flow with negligible pressure drop and can be used for a variety of liquids. All cleanable strainers have access for easy removal of screen assembly without breaking line connections.

- Suitable for refrigerants, brine, water
- Brass body, stainless steel screen

	Connection			
Part No.	Size (In.)	Type	Length (In.)	Height (In.)
6023*	3/8	FPT	3.75	2.50
6056*	3/4	FPT	4.00	2.25
6034*	1/2	FPT	3.75	1.50

SPUN COPPER


SUD103

STRAINER

- Stainless steel strainer
- Tonnage: R22 125°F
- ODS connection

	Connection				
Part No.	Size (In.)	Type	Suggested Ton-nage R22	Length (In.)	Height (In.)
SUD103*	1/4	ODS	1/2	7.75	1.00
SUD109*[1]	1/4	ODS	1/2	7.00	1.00
SUD115*[2]	1/4	ODS	1/2	9.63	1.00
SUD111*[2]	1/4	ODS	1	9.63	1.00
SUD113*	1/4	ODS	1	9.25	1.00

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	Connection				
Part No.	Size (In.)	Type	Suggested Ton-nage R22	Length (In.)	Height (In.)
SUD116*	1/4, Stepped	ODS	1	9.00	1.00

[1] Bi-directional [2] With Access Port


S210

STRAINER

Supco® copper strainers are specifically designed for reopened systems. Each strainer contains an oversized screen area for filtering large quantities of foreign matter from systems that were burnt out.

- 200 Mesh Monel screen
- Each contains an oversized screen area, filtering large quantities of foreign matter
- Specifically designed for reopened systems

	Connection			
Part No.	Inlet	Outlet	Nb. of Outlets	Length (In.)
S210	1/4	0.098	1	2.75
S211	1/4	1/8	1	2.75
S212	1/4	1/4	1	2.75
S216	3/8	3/8	1	4.50
S218	3/8	1/8	1	4.50
S219	3/8	0.146	4	5.00


CU620

FILTER DRIER

Recommended for use in original equipment or replacement residential, air-conditioning or refrigeration equipment.

- All copper construction for extreme corrosion resistance
- 100% molecular sieve solid core drier
- For use with CFC, HCFC and HFC refrigerants
- Maximum working pressure: 500 psig
- Filtration: 100 microns
- Ratings are maximum flow capacity at 86°F liquid refrigerant temperature, R22, 1 psi ?P

		Connection				
Part No.	Drier Volume (Cu. In.)	Inlet	Outlet	Nb. of Outlets	Length (In.)	Height (In.)
CU620*	2.0	5/8	Cap	1	1.00	1.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SPUN COPPER


CU163S

FILTER DRIER, HIGH EFFICIENCY

High capacity spun copper solid core filter drier ideal for superior corrosion resistance in ocean going vessels and coastal applications.

- All copper construction for extreme corrosion resistance
- 100% molecular sieve solid core drier
- For use with CFC, HCFC and HFC refrigerants
- Maximum working pressure: 500 psig
- Filtration: 40 microns
- Ratings are maximum flow capacity at 86°F liquid refrigerant temperature, R22, 1 psi ?P

COPELAND

		Connection				
Part No.	Drier Volume (Cu. In.)	Inlet	Outlet	Nb. of Outlets	Length (In.)	Height (In.)
CU163S*	4.3	3/8	3/8	1	1.00	1.00

ACCESSORIES



RCW42

CORE, 3 1/2" SHELL

Sporlan Type Replaceable Cores and Filters primary purpose is to provide unparalleled control of the most harmful contaminants in HVAC & R systems. Moisture, acids, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance air-conditioning and refrigeration systems. The cores can remove moisture, acids, dirt, and contaminants. The filter will remove solid contaminants in the piping following installation.

SPORLAN

Part No.	Description	Diameter (In.)	Length (In.)
RCW42*	Standard 3.5"Core	3.18	6.50


RC4864

CORE, 4 3/4" SHELL

- Cores fit many 48 cubic in. (or multiples thereof) shells
- Fit C48G—C192G, RSF48—RSF96 shells
- 61715: 100 mesh screen for cores in RSF shells

SPORLAN

Part No.	Description	Diameter (In.)	Length (In.)
RC4864*	Standard Activated Core	3.74	3.90
RC4864HH*	Charcoal, Wax Removal, Acid Core	3.74	3.90

Continued on next page

Part No.	Description	Diameter (In.)	Length (In.)
RCW48G*	High Moisture, POE Oil Core	3.74	3.90
RPE48BD*	Filter Element, Suction Line	3.74	4.30


RC10098

CORE, 6" SHELL

- Fits C300—C400 Series shells

SPORLAN

Part No.	Description	Diameter (In.)	Length (In.)
RC10098*	Standard Activated Core	4.80	5.00
RC10098HH*	Charcoal, Wax Removal, Acid Core	4.80	5.00
RPE100*	Filter Element, Suction Line	4.80	7.00


D48

CORE, 4 3/4" SHELL

- Fits STAS48 — STAS192

EMERSON

Part No.	Description	Length (In.)
D48*	Standard Moisture Capacity Drier Core	4.00
H48*	High Moisture Capacity Drier Core	4.00
UK48*	Ultra High Moisture Capacity Core	6.25
W48*	Charcoal Core; Wax, Acid Removal	3.90
F48R*	Suction Line Felt Filter Element, Reverse Flow	6.70


H100

CORE, 6" SHELL

- Fits ADKS300, 400 Series 6" shells

EMERSON

Part No.	Description	Length (In.)
H100*	High Moisture Capacity Drier Core	7.00
W100*	Charcoal Core; Wax, Acid Removal	7.25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


DF25A

CORE

- Acid fighter - maximum acid reduction
- Charcoal filter fights wax buildup

SUPERIOR A SHERWOOD COMPANY

Part No.	Description	Fits Shell Model	Primary System Usage	Length (In.)
DF25A	Drier/Filter	2CFA	Suction	6.50
DF35A	Drier/Filter	3CFA	Suction	7.50
DF45A	Drier/Filter	4CFA	Suction	8.90
DF55A	Drier/Filter	5CFA	Suction	9.90
F25A	Filter	2CFA	Suction	8.10
F35A	Filter	3CFA	Suction	8.20
F45A	Filter	4CFA	Suction	9.00
F55A	Filter	5CFA	Suction	9.10


873NMS

REPLACEABLE DRIER CORE

Replaceable Cartridges for discontinued Filter Driers. Replaceable DRI-COR© cartridges for discontinued brass shell series suction line filters.

HENRY TECHNOLOGIES

Part No.	Description	Shell Volume (In.³)	Fits Shell Diameter (In.)	Length (In.)
873NMS	Replaceable drier core	45	3	9.00
875NMS	Replaceable drier core	50	5	5.00
815030	Filter Drier Cartridge		2.5	9.00


FS480

SOCK FILTER

The new catch-all shell design accommodates an optional secondary filter for use in the liquid line. The filter within-a-filter concept allows the molded cores to remove the larger sized particles, while the secondary filter removes microscopic particles in circulation.

- Installed over the outlet plate assembly screen and inside the core(s)

SPORLAN

Part No.	Length (In.)	Use with
FS480*	7.00	Shell Series C48
FS960*	12.75	Shell Series C96
FS1440*	17.50	Shell Series C144
FS1920*	21.00	Shell Series C192


A1751

MOUNTING BRACKET

- For replaceable core type shell driers

SPORLAN

Part No.	Diameter (In.)	Fits	Length (In.)
A1751*	3.50	CR42 Series Shell	7.25
A685*	4.75	C48 - C192, RSF48 - RSF96	7.30


A2F

BTAS CARTRIDGE

Type AF / AFD replaceable filter cartridges. Use for shell numbers BTAS 2 through BTAS 5.

EMERSON

Part No.	Description	Fits Shell Model	Length (In.)
A2F*	Filter Cartridge	BTAS2	8.00
A3F*	Filter Cartridge	BTAS3	3.50
A4F*	Filter Cartridge	BTAS4	8.75
A5F*	Filter Cartridge	BTAS5	10.00
A3FD*	Filter Drier Cartridge	BTAS3	7.70
A4FD*	Filter Drier Cartridge	BTAS4	8.90
A5FD*	Filter Drier Cartridge	BTAS5	10.00


023U1391

CORE, 4 3/4" SHELL

- 48-DM core is 100% molecular sieve formulation ideal for high moisture absorption at low and high condensing temperatures; for all refrigerants but most effective with HFCs
- 48-DC core is 80% molecular sieve and 20% for standard moisture and acid removal in all temperature ranges
- 48-DA core is 30% molecular sieve and 70% activated alumina. Solid core for acid adsorption after burnout.

ENGINEERING TOMORROW Danfoss

Part No.	Description	Length (In.)	Type
023U1391	High Moisture Capacity Drier Core	11.00	48-DM
023U4380	Standard Capacity Drier Core	6.00	48-DC

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MOISTURE INDICATORS


INDIC82416A1034

INDIC82416A LIQUID LEVEL INDICATOR & ALARM

The Sigma Engineering INDIC82416A Liquid Level Indicator & Alarm has both a Visual Level Indicator and has provision for an Alarm Output to be sent to a remote device. The unit will then send a signal to a remote alarm (not part of this unit) when the Liquid Level falls below the user set value.

- Input Voltage: 8-24 VDC
- Output Voltage 1-6 Volts
- Output Current: +/ 10 mA
- Dial Increments: 0 - 100% in increments of 5%
- Temp Range: -40° F to +175° F

Part No.	Diameter (In.)	Description
INDIC82416A1034*	10 3/4	LI Indic & Alarm 10-3/4" 8-24V Input 1-6V Output
INDIC82416A1234*	12 3/4	LI Indic & Alarm 12-3/4" 8-24V Input 1-6V Output


INDIC82412A1234

INDIC82412 LIQUID LEVEL INDICATOR & ALARM

Part No.	Diameter (In.)	Description
INDIC82412A1234*	12 3/4	Liquid Level Indicator With Alarm Input 8–24 Vdc Output 1–2 V
INDIC82412A14*	14.00	Liquid Level Indicator With Alarm Input 8–24 Vdc Output 1–2 V
INDIC824102A	2.00	Replacement Dials Input 8–24 Vdc Output 1-2V Dial Increments 0 To 100%
INDIC824106A	2.00	Replacement Dials Input 8–24 Vdc Output 1-6V Dial Increments 0 To 100%


INDIC58A1234

INDIC58A LIQUID LEVEL ALARM

The Sigma Engineering INDIC58A is a liquid-level indicator is a single pole, single throw switch on which contacts close upon the decrease of the liquid level at 20% pumpdown. The indicator pointer, or switch contacts, are on the outer side and are operated by a small magnet which follows the position of the inner magnet. There is no connection, except the magnetic field, between the inside and outside. Internal gears and bearings are stainless steel. In case of external damage, the indicator dial or switch cartridge may be replaced from outside—the refrigerant charge is not disturbed.

- AC Voltage 240 VAC Only
- Current 1.0 Amp Inductive
- Max Watts 75 Watts

Part No.	Diameter (In.)	Description
INDIC58A1234	12 3/4	LI Alarm Only 12-3/4" W/ Gasket


INDIC210A-1234

INDIC210A LIQUID LEVEL INDICATOR & ALARM

The Sigma Engineering INDIC210A is an indicator-alarm with selectable low-level point provides a relay circuit that closes at one of five user selectable levels from 10–50%. The relay circuit can be used to drive a variety of applications from alarms to pumps. Each indicator-alarm uses highly reliable and accurate, three wire, voltage divider technology to send the level signal to the level alarm, relay circuitry.

Part No.	Diameter (In.)	Description
INDIC210A-1234*	12 3/4	LIQUID LEVEL INDICATOR WITH ALARM Input Voltage 110 or 220 V Output Step 24VDC Max

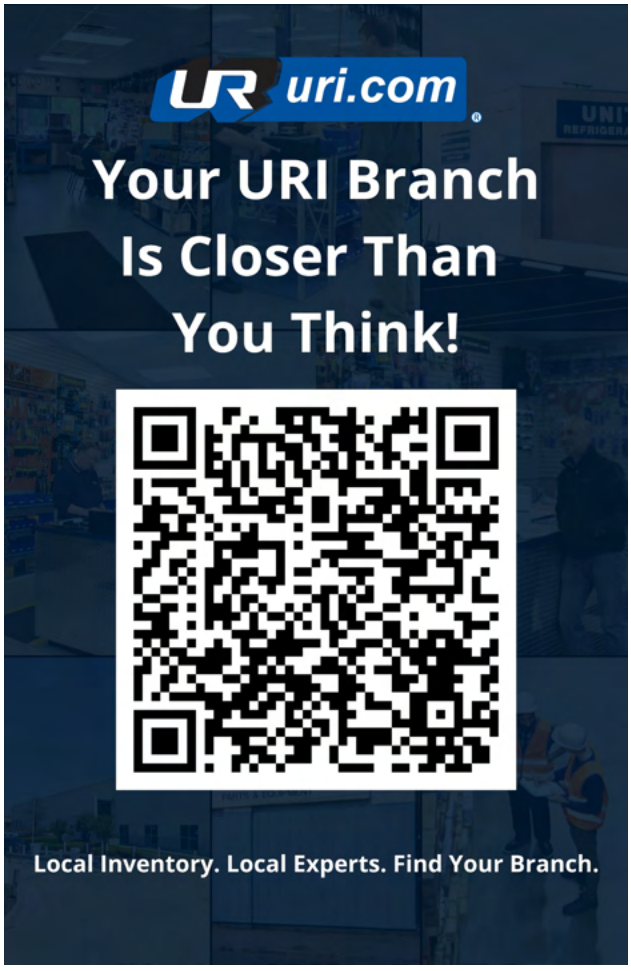
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIQUID LEVEL INDICATOR AND ACCESSORIES



INDIC21A

Part No.	Diameter (In.)	Description
INDIC21A*	2.00	Magnetic Dial For LI1 Liquid Level Indicator
INDICI-21	2.00	LI Indicator GAUGE
INDIC245A	2.00	Indicator Pad Block Off Plate
INDIC49*	2.00	Alarm Triac Switch For Indic 58
INDIC76A*	10 3/4	LI Indicator Only 10-3/4" W/ Gasket
INDIC824545A*	2.00	Electronic Dial 8-24V Input .5-4.5V Output
INDIC832545A*	2.00	Electronic Dial 8-32V Input .5-4.5V Output
INDIC85A*	12 3/4	LI Indicator 12-3/4



FLARE

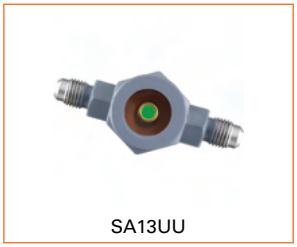


SA12

- KSA4: replacement cylinder/ indicator for current SA indicators

	Connection		
Part No.	**Size (In.)**	**Type**	**Overall Length (In.)**
SA12*	1/4	MFL x MFL	2.87
SA13*	3/8	MFL x MFL	3.37
SA14*	1/2	MFL x MFL	3.81
SA15*	5/8	MFL x MFL	4.13
SA12FM*	1/4	FFL x MFL	2.56
SA13FM*	3/8	FFL x MFL	2.97
SA14FM*	1/2	FFL x MFL	3.44

FLARE SWIVEL



SA13UU

- Swivel connection: female SAE flare
- KSA4: replacement cylinder/ indicator for current SA indicators

	Connection		
Part No.	**Size (In.)**	**Type**	**Overall Length (In.)**
SA13UU*	3/8	F Swivel x F Swivel	3.95
SA14UU*	1/2	F Swivel x F Swivel	4.50
SA15UU*	5/8	F Swivel x F Swivel	4.75
SA14FU*	1/2	F Swivel x FFL	3.75
SA13U*	3/8	F Swivel x MFL	3.64
SA14U*	1/2	F Swivel x MFL	4.13
SA15U*	5/8	F Swivel x MFL	4.44
SA15SU*	5/8	F Swivel x ODF	4.89

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MOISTURE INDICATORS


HMI1MM3

FLARE

- Fully hermetic design
- 3% R.H. indication
- Maximum working pressure: 680psig
- All brass body
- Solid copper fittings

EMERSON

	Connection	
Part No.	Size (In.)	Type
HMI1MM3*	3/8	MFL x MFL
HMI1MM4*	1/2	MFL x MFL
HMI1FM2*	1/4	FFL x MFL
HMI1FM3*	3/8	FFL x MFL
HMI1FM4*	1/2	FFL x MFL

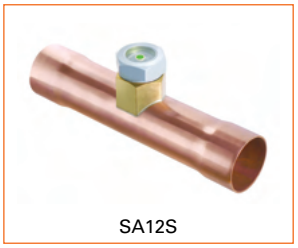

AMI1MM4

FLARE

- Replaceable lens assembly
- Maximum working pressure: 600 psig

EMERSON

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
AMI1MM4*	1/2	MFL x MFL	3.63
AMI1MM5*	5/8	MFL x MFL	3.88
AMI1FM4*	1/2	FFL x MFL	3.22


SA12S

ODS

- Combination sight glass moisture indicator with extended solder ends
- AC20: replacement cartridge for SA2 glasses
- KSA4: replacement cylinder/indicator for current SA indicators

SPORLAN

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
SA12S*	1/4	ODF x ODF	4.62
SA13S*	3/8	ODF x ODF	4.62
SA14S*	1/2	ODF x ODF	4.87
SA15S*	5/8	ODF x ODF	4.87
SA17S*	7/8	ODF x ODF	6.31
SA19S*	1 1/8	ODF x ODF	6.31
SA211*	1 3/8	ODF x ODF	8.00
SA213*	1 5/8	ODF x ODF	8.00
SA217*	2 1/8	ODF x ODF	8.00


HMI1TT2

ODS, TUBE

- Fully hermetic design
- 3% R.H. indication
- Maximum working pressure: 680 psig
- All brass body
- Solid copper fittings
- Connection: OD female tube

EMERSON

	Connection	
Part No.	Size (In.)	Type
HMI1TT2*	1/4	ODF
HMI1TT3*	3/8	ODF
HMI1TT4*	1/2	ODF
HMI1TT5*	5/8	ODF
HMI1TT7*	7/8	ODF
HMI1TT9*	1 1/8	ODF

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014L0182

ODS, TUBE

- For HCFC, HFC, HC and R744 refrigerants
- Pressure range: 0-754 psig
- Temperature Range: -58 to 175°F
- Indicates too high moisture content in the refrigeration system, lack of subcooling and refrigerant deficiency
- Equipped with sensitive indicators that reflects a color, depending on the moisture content in the refrigerant

ENGINEERING TOMORROW Danfoss

	Connection	
Part No.	Size (In.)	Type
014L0182*	3/8	ODF x ODF


AMI1SS3

ODS, STUB

- Replaceable lens assembly
- Maximum working pressure: 600 psig

EMERSON

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
AMI1SS3*	3/8	ODF x ODF	2.25
AMI1SS5*	5/8	ODF x ODF	2.63
AMI1SS7*	7/8	ODF x ODF	3.13


SG204R

ALLIN™ MOISTURE REACTOR, FLARE

The Allin Liquid Eye®moisture reactor is easy to read in minimal light. It provides a quick indication of refrigerant in the tube, as well as the pressure of the moisture. When moistrure is present, the color bars on the band within the tube change color.

Supco

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
SG204R*	1/2	MFL x MFL	3.94

SIGHT GLASS

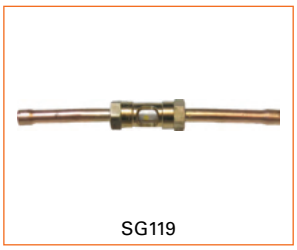

SG06

SIGHT GLASSES

- Nickel Plate Steel Body
- Hermetically Sealed Fused Lens
- Common MPT Pipe Connection
- Over 750 psi Working Pressure
- 300° F Max Working Temp (148° C)
- Suitable for Most Refrigerants
- Can be used with most Industrial Fluids that are Non-Corrosive to Glass & Steel
- Hard to find Rotolock Connection Sight-Glass

Sigma Engineering LLC

Part No.	Description	Ship Wgt (Lbs.)
SG06	Sightglass Clear W/ Floatball 3/4" Mpt	0.13
SG04	Sightglass Clear W/ Floatball 1/2" Mpt	0.08
SG08	Sightglass Clear W/ Floatball 1" Mpt	0.25
SG10	Sightglass Clear W/ Floatball 1-1/4" Mpt	0.44
SG12A*	Sightglass Rotolock 3/4" X1-1/4" W/Teflon Seal	0.20


SG119

ALLIN™ LIQUID EYE, SWEAT

- Solid brass body
- Shock-resistant glass
- Flow indication only

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
SG119*	3/8	Sweat Extended Ends	7.75


SG110

ALLIN™ LIQUID EYE, FLARE

The Allin Liquid Eye® has a unique "see-thru" feature that is more readable than other sight glasses. The dot on the tube is magnified when the tube is full of refrigerant to give a quick, easy indication.

- Solid brass body
- Shock-resistant glass
- Flow indicator only

Supco

	Connection		
Part No.	Size (In.)	Type	Overall Length (In.)
SG110*	1/4	MFL x MFL	3.13
SG111*	3/8	MFL x MFL	3.38
SG114*	1/4	MFL x FFL	3.06
SG115*	3/8	MFL x FFL	3.25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACID TEST



TA-1

ONE SHOT

The Test-All acid test kit consists of three bottles-two neutralizer and one indicator solution. The neutralizer solutions are labeled for specific oils. The solutions in the kit are stable, but are sensitive to light and heat.

CAUTION

This kit should not be used on systems which have used an oil additive leak detector. The additives can interfere with the color change point of the acid test kit.

SPORLAN

Part No.	Description
TA-1*	All Oil Test Kit - Test-All is a user friendly acid test kit to determine if the amount of acid present in the refrigeration oil is acceptable or unacceptable



4320W8

PHASE III® REFRIGERATION OIL ACID TEST KIT

Formulated for use on POE's as well as mineral oils and alkylbenzene. A disposable test kit that provides proof-positive that acid level in refrigeration oil is safe or unsafe. Phase separation makes it easy to see change in color of acid indicator (even if a leak detection dye has been added to the oil). Just two bottles to work with. It is a simple, safe, accurate and small enough so you can carry several in your tool box.

Nu-Calgon

Part No.	Description
4320W8*	Phase III® Refrigeration Oil Acid Test Kit - Inexpensive, Disposable, Extremely Accurate And The Universal Acid Test Kit For Mineral Oils,Alkylbenzene Oils Like Zerol,Emkarate RI And Copeland Polyol Esters,Polyvinyl Ether (Pve) Lubricants



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OIL CONTROL


RG4F

FLOAT REGULATOR

The RG-4 is capable of mounting directly to both Copeland and Bitzer compressors with a universal flange, eliminating the need for adapter kits and reducing installation cost. For other compressor configurations, adapter kits can be used to convert the universal mounting to non-standard compressor mountings.

The oil feed connection is a standard 3/8" SAE flare. A 1/4" SAE flare oil equalization connection is also provided. It is placed at the 1/2 glass range.

Westermeyer Industries Inc.

- Maximum Working Pressure - 450 psig

	Connection				
Part No.	Size (In.)	Type	Operating Differential	Overall Height (In.)	Ship Wgt (Lbs.)
RG4F	3/8	FL 90 Degree	5 - 30 psig	4.50	5.00
RG4FC	3/8	FL Straight	5 - 30 psig	4.50	5.00


OL60CH

FLOAT REGULATOR

- To regulate oil level in multi compressor parallel systems
- Adjustable between 1/4 and 1/2 sightglass at pressure differentials noted below
- Overall height: 5.75" (6.16" for FH models)
- AOLA: adapter for Copeland <5 Hp
- AOLR: adapter Bitzer, 6E, 6D; Bock F; Carrier EA, ER; Copeland >5 Hp, 2D, 4D, 6D; D/B Big4; Trane M, R 1 7/8 B.C.; York GC, GS, JS (included)

SPORLAN

Part No.	Max. Differential Pressure	Overall Height (In.)	Equalizer	Ship Wgt (Lbs.)
OL60CH*	0 - 90	5.75	None	4.02
OL60FH*	0 - 90	5.75	3/8" SAE	4.18
OL60AR*	0 - 90	5.75	3/8" SAE	4.08
OL60HH6*	0 - 90	5.75	None	3.50
OL60NH2*	0 - 90	5.75	3/8" SAE	4.09
OL60XH*	0 - 90	5.96	3/8" SAE	4.00
OL60TH1*	0 - 90	5.75	3/8" SAE	4.09
OL60TH2*	0 - 90	5.75	3/8" SAE	4.10


OCV5

DIFFERENTIAL CHECK VALVE

The Sporlan Oil Differential Check Valve (OCV) is installed on the 3/8" SAE fitting on the top of the Oil Reservoir. It allows pressure to be relieved from the reservoir to the suction as required to maintain a pressure in the reservoir at a preset level above the suction pressure. This ensures oil flow to oil level control.

- Ensures oil flow to oil level control
- Installs at reservoir inlet

SPORLAN

Part No.	Differential Pressure	Ship Wgt (Lbs.)
OCV5*	5	0.30
OCV10*	10	0.30
OCV20*	20	0.32
OCV30*	30	0.30


AOR2

OIL RESERVOIR

- Sight glasses with floating ball indicators; (2)-2 gallon model, (3)-4 gallon model
- 3/8" flare rotolock valves on top and bottom
- Mounting stud: 1/2" x 14 TPI
- Maximum working pressure: 450 psig
- Diameter: 6"
- Connection: 3/8" M flare rotolock valves

COPELAND

Part No.	Capacity (Gal.)	Length (In.)
AOR2*	2	34.00
AOR4*	4	38.00


OR6-4

OIL RESERVOIR

The reservoir is supplied with two 3/8" flare swivel valves. All models are manufactured with sight glasses for oil level viewing. Features

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- 450 psig maximum working pressure
- 3/4"-16 spud connection for 3/8" flare swivel valves
- 3/8" flare connection for pressure vent valve

Westermeyer Industries Inc.

Part No.	Capacity (Gal.)	Length (In.)
OR6-4	4	33.50
OR62	2	15.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL CONTROL


Y1236C

PRESSURE DIFFERENTIAL VALVE, ADJUSTABLE

The Sporlan Y1236-C pressure differential valve is designed for use on high pressure oil return systems or others applications where a differential pressure regulator is required. The valve permits the oil level control mounted at the compressor to feed at any specified level because the pressurized oil at the control is slightly greater than crankcase pressure. Without the Y1236-C, excessive pressure drop across the mechanical oil level control would cause the control to overfeed the compressor. This occurs because more force is required on the float ball, thereby a higher oil level, to overcome the pressure drop through the port to close the oil level control.

The Y1236-C reduces the inlet pressure by controlling a differential across the valve outlet and the force supplied to the valve's element. With high pressure oil return systems, suction pressure is supplied to the element when located between the oil separator/reservoir and the oil level control.

The Y1236-C includes a removable 100 mesh inlet strainer to protect the valve from circulating contaminants.

- The valve is adjustable from a 10 to 25 psi differential.
- Factory setting 17 psi.

	Connection			
Part No.	Size (In.)	Type	Overall Height (In.)	Ship Wgt (Lbs.)
Y1236C*	3/8	MFL	6.10	1.22


9297H

OIL EXCHANGE

- Performs the recommended 5 oil flushes in minutes without allowing POE oil to absorb moisture
- Designed to remove maximum amount of oil from crankcase
- Fully ported to ensure fast removal and charging up to 6 times faster than access port valve
- Pressure gauge connection provided, with Schrader valve
- Designed to be left in system for future service
- Connection: MPT overtube x M flare

	Connection (In.)		
Part No.	Bottom Inlet (In.)	Side Outlet (In.)	Overall Length w/ Tube (In.)
9297H	1/8	1/4	12.36
9298H	1/4	1/4	13.66


OF303T

OIL FILTER

Unlike mineral and alkylbenzene oils, POE oil has solvent-like tendencies. POE oil has the ability to suspend and recirculate small, solid contaminants left from system installation or retrofit. The OF Series oil filters are designed to be 99% efficient in removing 3 micron sized particles and yet have sufficient flow capacity at a low pressure drop. The Sporlan OF Series oil filters were designed to virtually eliminate the need for oil changes resulting from suspended solid contaminants in circulation. Typically, an OF Series oil filter would be installed in the oil line between the oil reservoir and the oil header of a refrigeration rack with a low pressure oil system. If the OF-303-BP is used on a low pressure oil system, it should be installed between the oil separator and oil reservoir. On a high pressure oil system, an OF Series oil filter would be installed between the oil reservoir and the oil header.

- Pressure tap included with T suffix filters.

	Connection			
Part No.	Size (In.)	Type	Overall Length (In.)	Comments
OF303T*	3/8	MFL	9.69	Sealed
OF303BP*	3/8	MFL	10.63	Sealed, 30 Lb. ?P Bypass
ROF413T*	3/8	MFL	8.12	Shell, Element Not Included


AOFD553

OIL FILTER-DRIER

Copeland's AOFD is designed specifically for refrigerant systems that use POE oil. POE oil is hygroscopic in nature, which means that it attracts and absorbs water. Moisture in a closed system can produce acid and will harm the compressor.

- Designed to clean and dry POE oil
- 3/8" male flare connections for easy replacement
- Pressure tap both ends
- Large filter surface area to provide maximum filtration
- Contains 100% molecular sieve XH-9 Desiccant for moisture removal
- Designed to operate at a very low pressure drop
- 10 micron filtration for optimum oil cleaning

Part No.	Description	Overall Length (In.)
AOFD553*	Oil Filter Drier	9.63

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


AOF303

HIGH EFFICIENCY OIL FILTER

- Specifically designed to protect the compressor from all solid contaminants including metallic magnetic particles
- Corrosion resistant epoxy powder paint finish
- 3/8" connections for easy installation
- 98% efficient to 4 micron par ticles
- Compatible with all oils
- Maximum working pressure: 500 Psig

COPELAND

Part No.	Description	Overall Length (In.)
AOF303*	High Efficiency Oil Filter	9.63


F402S

LOW PRESSURE OIL FILTER, SERVICEABLE

Features

- An oil filter should always be used with any oil management system to ensure that refrigerant oil is clean of any foreign matter that may obstruct float valves in oil regulators and oil separators.
- Serviceable filter element with tapped and slotted flange for ease of assembly and removal
- Filter (Model 90-007K) factory installed
- Can be mounted vertically or horizontally
- Steel construction with powder paint finish

Specifications

- Low pressure drop filter. Replace at 15 PSIG pressure drop
- 99.5% efficient at removing 4-micron particles and larger
- 330 sq. in. of filtering surface area

Westermeyer Industries Inc.

	Connection		
Part No.	Size (In.)	Overall Length (In.)	Diameter (In.)
F402S	3/4" ODS	8.61	4.00
F402L	3/4" - 16 Spud	8.30	4.00


OMBMO1

OIL LEVEL MONITOR

The Copeland Oil Watch is designed to monitor a compressor's oil level and signal an alarm if the oil level is not adequate. It can be used to shut-down the compressor in addition to its alarm capability.

Adapter for small Copeland ZF, ZS, ZB 3/4"-14 MPT includes sightglass, 2 o-rings and 3 bolts.

- Self contained unit
- SPDT alarm output
- Installs directly over compressor sight glass
- Junction box standard
- UL recognized

EMERSON

Part No.	Description	Ship Wgt (Lbs.)
OMBMO1*	Oil Watch, Angle	2.45
KS303681*	Repair Kit	0.05
KS30376*	Adapter for OMBJB1, scroll (ZF, ZS, ZB), includes sightglass, 2 O-rings, 3 bolts	0.63
OMBACG*	Rotalock Adapter, 1 1/4" x 12 UNF-2BTHD	1.00


SG1206

OIL LEVEL GLASS

The SG-12 series sight glasses are suitable for HCFC and HFC refrigerants, along with their associated oils.

- Clear lens with floating ball
- Maximum temperature: 300°F
- Maximum working pressure: 500 psi

HENRY TECHNOLOGIES

Part No.	Thread Size (In.)	Depth (In.)	Ship Wgt (Lbs.)
SG1204	1/2	0.98	0.10
SG1206	3/4	1.07	0.15
SG1208	1	1.34	0.30
SG1210	1 1/4	1.38	1.00


S9106H

ISOLATION VALVE

The valves allow each oil level regulator to be isolated if service is required on a compressor, oil level regulator, oil line filter-drier or strainer.

- Connection: 3/8" F. flare x 3/8" M. flare

HENRY TECHNOLOGIES

	Connection			
Part No.	Size (In.)	Type	Type	Ship Wgt (Lbs.)
S9106H	3/8	MFL x FFL	Horizontal	0.45
S9106V	3/8	MFL x FFL	Vertical	0.25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL CONTROL



S9104

DIFFERENTIAL PRESSURE VALVE

Reservoir pressure valve maintains a positive pressure differential in the oil reservoir over the crankcase pressure. This positive pressure will insure an adequate oil supply to the oil level regulators.

HENRY TECHNOLOGIES

Part No.	Pressure Setting (Lbs.)	Ship Wgt (Lbs.)
S9104	5	0.10
S9104H[1]	20	0.40

[1] Satellite Compressors



S9420

LEVEL SENSOR

The switch consists of a sturdy nickel plated steel body with a built-in fused glass prism. This allows liquid to be optically detected by a solid state opto-electronic module. The solid state module is encapsulated in silicon. It can be easily replaced without disturbing the system.

- For oil, refrigerants, any noncorrosive, nonhazardous fluid
- Fluid temperature rating: -40°F to 210°F
- Working pressure: 1200 psi, 6000 psi burst
- Requires 3.5 mA AC, 5.5 mA DC
- Minimum load: 2 mA (without bleed resistor)

HENRY TECHNOLOGIES

	Connection					
Part No.	Size (In.)	Type	Voltage	Switch State (No Liquid)	Current Rating (Resistive/Inductive)	Ship Wgt (Lbs.)
S9420	1/2	MPT	240	Normally Open	0.25/36 VA	0.50
S9420A	1/2	MPT	240	Normally Closed	0.25/36 VA	0.20
S9424A	1/2	MPT	24	Normally Closed	0.5/36 VA	0.50
S9424A1	1	MPT	24	Normally Open	0.5/36 VA	0.50



3033201

ADAPTER KIT

- 3033201 included with all regulators for Dunham Bush (Big 4), Trane, York, Carrier (EA, ER, 06E, 06CE), Copeland (over 5 ton)

HENRY TECHNOLOGIES

Part No.	Application	Ship Wgt (Lbs.)
3033201	Standard	0.26

OIL SEPARATOR



900

HERMETIC COALESCENT

The Temprite 900/920 Series is the standard in ultra low temperature applications by virtue of its extreme performance range. They employ a matrix type borosilicate coalescent filter to do the work impingement screens formerly did. These exceptionally pure, extremely fine glass fiber matrices excite the oil molecules to collide into one another, thus agglomerating until they are forced to the outer drain layer of the filter. These droplets fall to the bottom of the separator reservoir and the oil is then returned to the compressor. The filter will pick up any and all effluent and dirt circulating in the system down to 0.3 microns. Temprite coalescent separators are not velocity dependant. The most accurate way to size a 900/920 Series oil separator for your application is to determine the actual cubic feet per minute that your compressor will be pumping.



900

HERMETIC COALESCENT

- Oil Connector: 1/4" ODS
- Capacity Rated: R404a, -40°F evaporator
- Maximum working pressure: 650 PSI
- Compatible with HC's and subcritical CO2

Temprite

Part No.	Connection Size (In.)	Dia. (In.)	Overall L. (In.)	Height (In.)	Capacity (Tons)	CFM
900[1]	3/8	4.00	8.25	5.10	0.5	6.33

[1] Length does not include mounting stud: 3/4 x 3/8"-16MPT



S5190

OIL SEPARATOR/HELICAL

- Welded construction
- Capacity rated: R404A, -40°F evaporator, Maximum

CAUTION

Oversizing is not acceptable

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Height (In.)	Capacity (Tons)	Discharge CFM
S5190	1-3/8	6.00	15.16	6.90	12.0	11
S5188	1-1/8	4.00	19.00	4.50	8.5	8
S5192	1-5/8	6.00	16.89	7.60	15.0	14


S5290

OIL SEPARATOR/HELICAL/ FLANGED

- Serviceable
- Copper plated steel connections
- All the capacities are based on 100° F condensing.
- Minimum tonnage is 33% of rated capacity, oversizing is not acceptable.
- 2023001: replacement flange gasket
- A190030: replacement float assembly
- Capacity rated: R404A, -40°F evaporator, Maximum

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Height (In.)	Capacity (Tons)	Dis-charge CFM
S5290[1]	1 3/8	6.00	20.00	7.70	13.6	15.5
S5292[1]	1 5/8	6.00	22.00	7.00	18.6	21.4
S5202	2 1/8	8.00	24.00	9.40	34.0	39.2
S5203	2 5/8	10.00	27.00	5.63	58.0	66.6
S5204	3 1/8	12.00	30.00	6.45	85.0	97.6

[1] S529 Series separators have 5" removable legs


S5582

OIL SEPARATOR/ CONVENTIONAL

- The helical oil separator features a centrifugal flow path achieving approximately 99% efficiency of oil separation with low pressure drop.
- Connections are nickel plated steel
- Oil Flow Rate @ 175 psi differential = 80 gal/min
- Capacity rated: R404A, -40°F evaporator, Maximum

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Capacity (Tons)
S5582	1/2	4.00	10.25	1.5
S5585	5/8	4.00	14.25	4.0
S5587	7/8	4.00	17.75	6.5
S5588	1 1/8	4.00	21.00	8.5


AW55824

OIL SEPARATOR/ CONVENTIONAL

- Hermetic welded flange construction
- Solid copper connection
- Maximum working pressure: 450 psig
- Capacity: R404A, -40°F evaporator

Use on

- Multiple compressor racks for supermarkets and air conditioning
- Systems with long refrigerant lines
- Systems with inherent oil return problems
- Ultra-low temperature systems

EMERSON

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Height (In.)	Capacity (Tons)
AW55824*	1/2	4.00	10.75	6.50	1.5
AW55855*	5/8	4.00	14.25	6.70	4.0
AW55877*	7/8	4.00	17.75	6.60	6.5
AW55889*	1 1/8	4.00	21.00	6.60	8.5
AW559011*	1 3/8	4.00	21.25	6.60	10.5
AW569213*	1 5/8	6.00	19.00	0.00	17.5


COS405F

COALESCING OIL SEPARATOR, LOW PRESSURE, SERVICEABLE

The filter is removable through the top flange assembly. The flange/ cover plate arrangement is easy to remove, eliminating the need for additional clearance during installation.

- Westermeyer coalescing oil separators use a borosilicate glass filter element designed to be 99.5% effective at removing oil particles and system contaminants above 0.3 microns in size.
- The filter is removable through the top flange assembly. Our flange/cover plate arrangement is easy to remove, eliminating the need for additional clearance during installation.
- It is recommended that the filter be replaced when the pressure differential exceeds 15 psig.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)
COS405F	5/8	4.00	16.25	1 - 10	16.0
COS407F	7/8	4.00	16.25	1 - 10	16.0
COS411F	1 1/8	4.00	20.63	2.5 - 25	16.0
COS413F	1 3/8	4.00	20.63	2.5 - 25	16.0
OS613FC	1 3/8	6.00	29.00	1.4 - 30	16.0
OS6-15FC	1 5/8	6.00	8.00	1.4 - 30	16.0
OS621FC	2 1/8	3.00	26.00	1.4 - 30	25.0
W1902C	2 1/8	8.00	32.00	2.1 - 30	25.0
W1903CA	2 5/8	10.00	38.00	4 - 40	25.0
OS1231C	3 1/8	12.75	49.00	7 - 70	25.0
OS1431C	3 1/8	14.00	56.00	10 - 100	25.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL SEPARATOR



COS403

COALESCING OIL SEPARATOR, LOW PRESSURE, SEALED

Westermeyer's coalescing oil separators use a borosilicate glass filter element designed to be 99.5% effective at removing oil particles and system contaminants above 0.3 microns in size. It is recommended that the oil separator be changed when the pressure differential exceeds 15 psig.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)
COS403	3/8	4.00	8.25	0.6 - 6	15.0
COS404	1/2	4.00	8.38	0.6 - 6	15.0
COS405	5/8	4.00	10.56	1 - 10	15.0
COS407	7/8	4.00	10.88	1 - 10	15.0
COS411	1 1/8	4.00	17.38	2.5 - 25	15.0
COS413	1 3/8	4.00	17.38	2.5 - 25	15.0



COS405FR

COALESCING OIL SEPARATOR/ RESERVOIR

Westermeyer coalescing oil separators use a borosilicate glass filter element designed to be 99.5% effective at removing oil particles and system contaminants above 0.3 microns in size.

The filter is removable through the top flange assembly. Our flange/cover plate arrangement is easy to remove, eliminating the need for additional clearance during installation.

It is recommended that the filter be replaced when the pressure differential exceeds 15 psig.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Oil Capacity
COS405FR[1]	5/8	4.00	19.50	1 - 10	0.6 Gal.
COS407FR[1]	7/8	4.00	19.50	1 - 10	0.6 Gal.
COS411FR[1]	1 1/8	4.00	28.63	2.5 - 25	0.85 Gal.
COS413FR[1]	1 3/8	4.00	28.63	2.5 - 25	0.85 Gal.
OS615FCR[1]	1 5/8	6.00	34.00	1.4 - 30	2 Gal.
OS621FCR[1]	2 1/8	6.00	34.00	1.4 - 30	2 Gal.
W1902CR[1]	2 1/8	8.00	30.00	2.1 - 30	2 Gal.
W1903CRA[1]	2 5/8	10.00	41.00	4 - 40	3.5 Gal.
OS1231CR[1]	3 1/8	12.75	41.00	7 - 70	5 Gal.
OS1431CR[1]	3 1/8	14.00	46.00	10 - 100	5 Gal.

[1] With reservoir



OS402

OIL SEPARATOR, CONVENTIONAL, LOW PRESSURE

standard screen-style separators remove oil from refrigerant gas using three methods: velocity reduction, screen filtering, and baffling. All separated oil is then returned to the compressor crankcase or reservoir by an internal oil float valve.

- Prefix 'OS' are sealed, Prefix 'W' are serviceable
- *W4300-38F replacement float assembly and gasket available for serviceable oil separators.
- Capacity R404A, -40°F evaporator
- Maximum working pressure: 450 psig

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capaci-ty (Tons)	Discharge CFM	Pre-Charge Amount (Oz.)
OS402[1]	1/4	4.00	8.25	0.75	0.20 - 0.60	15.0
W-1904	3 1/8	12.80	25.75	79.0	21-70	25.0
OS403[1]	3/8	4.00	8.25	1.0	0.26 - 0.80	15.0
OS404[1]	1/2	4.00	10.25	1.5	0.50 - 1.50	15.0
OS405[1]	5/8	4.00	14.25	4.0	1.50 - 5.00	15.0
OS407[1]	7/8	4.00	17.75	6.5	2.25 - 7.50	15.0
OS411[1]	1 1/8	4.00	21.00	8.5	3.00 - 10.00	15.0
OS413[1]	1 3/8	4.00	21.00	10.5	3.90 - 13.00	15.0
OS611[1]	1 1/8	6.00	15.38	8.5	3.00 - 10.00	40.0
OS613[1]	1 3/8	6.00	15.38	10.5	3.90 - 13.00	40.0
OS615[1]	1 5/8	6.00	18.63	15.0	5.10 - 17.00	40.0
OS621[1]	2 1/8	6.00	18.63	29.0	6.00 - 20.00	40.0
W1901[2]	1 5/8	8.00	21.00	21.0	5.10 - 17.00	25.0
W1902[2]	2 1/8	8.00	21.00	34.0	8.10 - 27.00	25.0
W-1903	2 5/8	10.75	21.50	59.0	15-50	25.0

[1] Sealed [2] Serviceable


OSH402

OIL SEPARATOR, CONVENTIONAL, HIGH PRESSURE

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Pre-Charge Amount (Oz.)
OSH402	1/4	4.00	8.25	2.5	15.0
OSH403	3/8	4.00	8.25	2.5	15.0
OSH404	1/2	4.00	10.25	3.0	15.0
OSH405	5/8	4.00	14.25	10.0	15.0
OSH407	7/8	4.00	17.75	16.0	15.0
OSH411	1 1/8	4.00	21.00	21.0	15.0
OSH413	1 3/8	4.00	21.00	23.0	15.0
OSH611	1 1/8	6.00	15.38	25.0	40.0
OSH613	1 3/8	6.00	15.38	27.0	40.0
OSH615	1 5/8	6.00	18.63	35.0	40.0


OS404C

CENTRIFUGAL OIL SEPARATOR, LOW PRESSURE

Centrifugal oil separators are designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators are up to 99% effective—even in high oil loading conditions.

Both sealed and serviceable units are available. We recommend serviceable oil separators for use in supermarket and parallel compressor systems.

Suffix 'C' are sealed, all others are serviceable

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)
OS404C[1]	1/2	4.00	13.00	1.5	15.0
OS405C[1]	5/8	4.00	15.00	5	15.0
OS407C[1]	7/8	4.00	17.00	7.5	15.0
OS411C[1]	1 1/8	4.00	19.00	10	15.0
OS613C[1]	1 3/8	6.00	15.00	13	40.0
OS615C[1]	1 5/8	6.00	17.00	17	40.0
OS613F[2]	1 3/8	6.00	22.00	12	25.0
OS615F[2]	1 5/8	6.00	22.00	17	25.0
OS621F[2]	2 1/8	6.00	22.38	27	25.0
OS821[2]	2 1/8	8.00	24.00	38	25.0
OS825[2]	2 5/8	8.00	23.50	55	25.0
OS1025[2]	2 5/8	10.00	27.00	76	25.0
OS1231[2]	3 1/8	12.80	30.00	118	25.0

[1] Sealed [2] Serviceable


OSH404C

CENTRIFUGAL OIL SEPARATOR, HIGH PRESSURE

- Maximum working pressure: 675 psig
- Comes with a 3/8 Flare for the oil outlet
- Welded design for higher strength
- Nitrogen tested for cleanliness

For screw compressor applications, a high pressure oil separator/reservoir without internal float valve must be used.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Capacity (Tons)	Discharge CFM	Pre-Charge Amount (Oz.)
OSH404C	1/2	4.00	13.00	3.0	1.5	15.0
OSH405C	5/8	4.00	15.00	10.0	5	15.0
OSH407C	7/8	4.00	17.00	16.0	7.5	15.0
OSH411C	1 1/8	4.00	19.00	21.0	10	15.0
OSH613C	1 3/8	6.00	15.00	27.0	13	40.0
OSH615C	1 5/8	6.00	17.00	35.0	17	40.0


OS407RES

CENTRIFUGAL OIL SEPARATOR/ RESERVOIR, LOW PRESSURE

The oil separator portion is divided from the reservoir by an internal baffle, which protects the oil in the reservoir from the turbulent action of the oil separator. Two sight glasses provide visual indication of the oil level. It is best to maintain the oil level between the two glasses. A 3/8" flare Rotolock valve is included for installation on the oil return port.

This separator/reservoir is particularly effective for use with screw compressor systems.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Oil Capacity
OS407RES	7/8	4.00	33.00	7.5	2
OS411RES	1 1/8	4.00	33.00	10	2
OS613RES	1 3/8	6.00	33.50	12	1.5
OS615RES	1 5/8	6.00	33.50	17	1.5
OS621RES	2 1/8	6.00	33.50	27	1.5
OS821RES	2 1/8	8.00	25.50	38	2
OS825RES	2 1/8	8.00	25.50	55	2.5
OS1025RES	2 5/8	10.00	30.00	76	2.5
OS1031RES	3 1/8	10.00	30.00	90	2.5
OS1231RES	3 1/8	12.75	30.00	118	4

OIL SEPARATOR



DP01

DIFFERENTIAL PRESSURE GAUGE

Used to indicate both visually and electronically when the filter element in a coalescing oil separator is contamined and need replaced. A contaminated filter affects both performance and efficiency of the oil separator itself, and the overal efficiency of the entire system.

- 24V AC/DC, 3A max. 60W mas switch rating
- 12 psid switch setting
- Two 22 gauge wire leads, 12" long to connect to board
- Multi colored gauge face for easy visual inspection
- Supplied with two 6-32 mounting screws
- Aluminum body, stainless steel fittings & ceramic internals

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Description
DP01	1/4	Pressure differential gauge, 1/4" MFL, 24 V AC/DC

REPAIR PARTS



51200000

FLOAT ASSEMBLY

Temprite

Part No.	Height (In.)	Model Usage	Description
51200000	4.30	506 - 507	Seat Assembly
52200000	6.80	506 - 507	Needle, Seat Assembly
52300000	8.70	508 - 510, 928, 930	Needle, Seat Assembly
55000010	1.10	501 - 510, 922 - 925, 930	Bottom Plate Gasket



60004000

SCREEN

Temprite

Part No.	Height (In.)	Model Usage	Pkg Qty
60004000	5.40	504	2

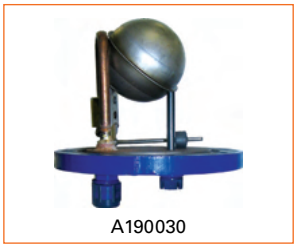


62034000

FILTER KIT

Temprite

Part No.	Height (In.)	Model Usage
62034000	1.50	922 - 923
62037000	2.70	924 - 925



A190030

FLOAT ASSEMBLY

Includes float and gasket

HENRY TECHNOLOGIES

Part No.	Height (In.)	Description	Use with
A190030	5.60	Float Assembly	S5200, S1900 series
A570030	6.80	Float Assembly	S5700 series
2023001	0.10	Gasket	All float assembly flanges



W430038F

FLOAT ASSEMBLY WITH GASKET

The Westermeyer W4300-38F high-performance oil float was designed from the ground up to effectively and efficiently meter separated oil back to the compressors, delivering increased oil system performance and dependability over legacy "1900-30" models. These floats feature a new unibody design, eliminating the "u-tube" by utilizing a float body machined from a single piece of steel, for more consistency and quality throughout manufacturing.

Westermeyer Industries Inc.

Part No.	Description
W430038F	Float Assembly with Gasket

SUCTION ACCUMULATOR



AAS384

SUCTION ACCUMULATOR

The A-AS protects the compressor from liquid slugging and is used with CFC, HCFC, and HFC refrigerants. It is available for systems through 28 tons nominal capacity.

- Designed to operate in a range of +40°F to -40°F evaporator temperature
- Fusible plug on larger diameter units
- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- Inlet deflector directs refrigerant flow to prevent internal splashing and aid in the collection of refrigerant oil
- Designed to operate from +40°F to -40°F evaporator temperature
- Fusible plug on 4" diameter and larger units
- Solid copper fittings
- Mounting: 3/8"-16 UNC thread
- Working pressure: 300 psig
- System Capacity: tons R22, 40°F evaporator, equivalent 1°F ?P
- Holding Capacity: Lbs R22, 40°F liquid, 50% full

EMERSON

Part No.	Connection Size (In.)	Diameter (In.)	L (In.)	H (In.)	System Capacity (Tons)	Holding Capacity (Lbs.)	Ship Wgt (Lbs.)
AAS384*	1/2	3.00	11.20	3.40	2	1.5	2.00
AAS3105*	5/8	3.00	15.90	3.50	3	2.0	1.10
AAS3126*	3/4	3.00	16.00	3.50	4	3.0	1.30
AAS464*	1/2	4.00	8.90	5.00	2	2.5	1.36
AAS465*	5/8	4.00	9.30	4.80	3	2.5	2.20
AAS4105*	5/8	4.00	13.60	6.60	3	4.0	4.60
AAS4106*	3/4	4.00	13.90	6.30	4	4.0	4.60
AAS596*	3/4	5.00	12.20	6.50	4	6.0	2.55
AAS597*	7/8	5.00	1.00	1.00	7.3	6.0	4.00
AAS5126*	3/4	5.00	15.00	6.50	4	8.0	6.80
AAS5137*	7/8	5.00	17.80	6.60	7.3	8.5	7.95
AAS5139*	1 1/8	5.00	17.70	6.60	11.8	8.5	7.85
AAS6117*	7/8	6.00	0.00	0.00	7.3	10.0	10.00
AAS6139*	1 1/8	6.00	18.10	6.40	11.8	12.0	14.45
AAS61411*	1 3/8	6.00	18.10	6.50	18.8	14.05	16.60
AAS62013*	1 5/8	6.00	1.00	1.00	28.5	20.62	18.10
AAS62513*	1 5/8	6.00	31.00	7.00	28.5	25.0	27.00



3825

SUCTION ACCUMULATOR

Applications requiring intermittent operation of the refrigeration compressor may trap or hold quantities of liquid in the suction line which are suddenly dumped into the compressor as it starts up. Proper installation of the suction accumulator, just before the compressor, eliminates damage. Liquid is temporarily held in the suction accumulator and metered back to the compressor along with any oil, at a controlled rate, through the metering orifice.

- VERTICAL models 6" diamater and smaller (also ASME 3648) rated for R410A
- All Refrigeration Research suction accumulators of 4" through 6" diameter have fusible plugs included and installed to comply with latest UL and cUL requirements
- All models are listed or meet code
- Holding capacity and recommended tonnage: R404A, -20°F evaporator
- Minimum recommended tonnage based on oil return through accumulator.
- 3826, 3836, 3839, 3840, 3841 accumulators are horizontal orientation

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	L (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)
3825[1]	7/8	6.00	10.00	8.4	.33 to 1.3	8.90
3821	5/8	3.00	11.78	2.1	.08 to .45	3.00
3838[1]	2 1/8	6.00	36.00	27.2	3.7 to 16	28.00
3839[1]	2 1/8	6.00	48.00	36.4	3.7 to 16	44.12
3738	7/8	5.00	13.69	7.0	0.33 to 1.3	7.70
3670	7/8	4.00	11.00	3.5	.33 to 1.3	5.69
3701	5/8	4.00	7.13	2.1	0.08 to 0.45	3.00
3680	1/2	3.00	8.10	1.3	.06 to .25	2.60
3817	1/2	4.00	10.50	3.7	.06 to .25	4.35
3706	1 3/8	6.00	20.25	15.4	1.3 to 4.5	17.82
3832	1 1/8	6.00	11.00	7.5	.47 to 2.5	10.98
3700	1.125	6.00	15.00	11.4	0.56 to 4	13.00
3641	2 5/8	10.80	20.00	44.7	6 to 25	53.75
3639	2 1/8	8.60	20.00	27.2	3.7 to 16	41.10
3640	3 1/8	10.80	26.00	63.9	9.3 to 40	75.00

[1] Horizontal

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SUCTION ACCUMULATOR



HP3701

SUCTION ACCUMULATOR, HEAT PUMP

- Accumulator with smaller orifice and protective strainers specifically for heat pump applications. Must be installed between the compressor and reversing valve
- Holding capacity and recommended tonnage: R22, +40°F evaporator

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)
HP3701	5/8	4.00	6.63	2.1	.18 to 2	3.00
HP3702	5/8	4.00	10.63	4.1	.18 to 2	4.40
HP3703	3/4	4.00	10.63	4.0	.22 to 3	4.85
HP3738	7/8	5.00	13.00	7.9	.53 to 4	10.05
HP3700	1 1/8	6.00	15.00	12.9	.76 to 9	13.00
HP3706	1 3/8	6.00	20.25	17.5	2 to 17	17.95



HX3701

ACCUMULATOR HEAT EXCHANGER

- Combines the functions of a suction accumulator with the convenience of a heat exchanger coil
- All heat exchanger-suction accumulators are complete with Leek Pruf fusible plugs installed complying with latest UL and cUL requirements, except those built to ASME code.
- Holding and recommended tonnage: R404A, -20°F evaporator
- Vertical orientation

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)
HX3701	5/8	4.00	6.63	1.9	.08 to .45	3.00
HX3702	5/8	4.00	10.63	3.6	.08 to .45	4.85
HX3738	7/8	5.00	13.00	6.9	.33 to 1.3	10.68
HX3700	1 1/8	6.00	15.00	11.4	.47 to 2.5	15.25
HX3706	1 3/8	6.00	20.25	15.4	1.3 to 4.5	20.55
HX3704	1 5/8	6.00	24.75	19.9	1.3 to 7	27.00
HX3639	2 1/8	8.60	20.00	27.2	3.7 to 16	50.00



A507

LOW PRESSURE SUCTION ACCUMULATOR, UL LISTED

Suction line accumulators are designed to act as a temporary holding vessel between the outlet of the evaporator and the inlet of the compressor. During flood back conditions, the accumulator traps the liquid charge and allows it to be evaporated and fed to the compressor at a controlled rate. The internal U-tube includes an orifice, which ensures proper metering of the oil back to the compressor.

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Nickel plated connections
- Screened orifice for proper oil return
- UL version include fusable plug - rated to 430°F
- Maximum working pressure: 450 psig
- Holding Capacity R22 rated

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Diameter (In.)	L (In.)	Holding Capacity (Lbs.)	Ship Wgt (Lbs.)
A507	7/8	5.00	10.00	4.0	9.00
A611	1 1/8	6.00	18.75	13.0	20.00
A613	1 3/8	6.00	23.00	15.5	24.00
A615	1 5/8	6.00	23.00	14.5	25.00



A8-15

LOW PRESSURE SUCTION ACCUMULATOR, ASME

ASME accumulators are used to prevent liquid slugging of the compressor during a flood-back condition. If liquid enters the compressor cylinder, costly damage can occur. These accumulators capture excess liquid leaving the evaporator, allowing the system to vaporize it during normal operation, returning only refrigerant vapor to the compressor. A weep hole is included in the internal tube to facilitate proper oil return from the accumulator to the operating system.

- Low pressure drop
- Positive oil return
- Maximum working pressure: 450 psig
- Holding Capacity R22 rated

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Diameter (In.)	L (In.)	Holding Capacity (Lbs.)	Ship Wgt (Lbs.)
A8-15	1 5/8	8.63	22.00	28.0	30.00
A821	2 1/8	8.63	22.00	23.0	41.00
A1025	2 5/8	10.75	22.00	32.0	61.00
A1031	3 1/8	10.75	25.00	25.0	67.00

REFRIGERANT RECEIVER


1920

VERTICAL

- Permanent fusible plug
- Connection: inlet male flare fitting x outlet male flare valve (except 9021RR: inlet IDS fitting x outlet IDS valve)
- Holding capacity: 90% full 90°F for R22, R134A and R502; for R12 multiply by 1.1; for R404A and R402B multiply by 0.9
- Working pressure: 500 psi

REFRIGERATION RESEARCH, INC.

	Dimensions (In.)			Connection		
Part No.	Dia.	L	Holding Cap. (Lbs.)	Size (In.)	Type	Ship Wgt (Lbs.)
1920	3.50	7.50	2.0	1/4	SAE	3.40
1917	3.50	10.00	3.0	1/4	SAE	1.75
1921	4.00	10.00	4.0	1/4	SAE	4.50
1918	5.00	10.00	6.0	1/4	SAE	7.05
5315	5.00	10.00	6.0	3/8	SAE	3.60
1911	6.00	12.00	10.0	3/8	SAE	12.34
3212	6.00	18.00	16.0	1/2	SAE	16.35


1919

HORIZONTAL

- Fusible plug, removable
- Vertical valve assembly, outlet
- Connection: flare outlet x IDS inlet

REFRIGERATION RESEARCH, INC.

	Dimensions (In.)			Connection		
Part No.	Dia.	L	Holding Cap. (Lbs.)	Size (In.)	Type	Ship Wgt (Lbs.)
1919	5.00	28.00	19.0	3/8	Flare outlet x IDS inlet	16.60


3310RR

VERTICAL, HIGH PRESSURE, BULL DOG

Designed specifically for higher pressure requirements for use in R-410A systems.

- Holding capacity: 90% 90°F
- Working pressure: 675 psi
- Rotalock connections
- Leek Pruf® fusible plug installed

REFRIGERATION RESEARCH, INC.

	Dimensions (In.)			Connection		
Part No.	Dia.	L	Holding Cap. (Lbs.)	Size (In.)	Type	Ship Wgt (Lbs.)
3310RR	6.00	12.00	9.0	1	RL	13.00

NOISE ABATEMENT


S6304

DISCHARGE LINE MUFFLER

Mufflers have internal baffles designed for minimum pressure drop. These baffles change the velocity of the discharge gasses passing through the muffler. This results in a dampening effect on high frequency sound waves on high speed compressors. Pulsating waves are also muffled in both low speed and high speed compressors.

HENRY TECHNOLOGIES

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Ship Wgt (Lbs.)
S6304	1/2	3.00	7.75	1.20
S6305	5/8	3.00	7.75	2.00
S6307	7/8	3.00	9.69	1.10
S6407	7/8	4.00	7.00	3.50
S6311	1 1/8	3.00	9.69	2.50
S6413	1 3/8	4.00	13.75	2.50
S6415	1 5/8	4.00	18.75	7.00


MH3

DISCHARGE LINE MUFFLER, HIGH PRESSURE

Designed for the higher pressure requirements for systems using R410A. The tough requirements needed for these special models are made to the approved Underwriters Laboratory requirements necessary to meet the 675 psig working pressure.

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Suggested Tonnage	Ship Wgt (Lbs.)
MH3	1/2	2.00	7.44	3	1.00


M10

DISCHARGE LINE MUFFLER

- Discharge mufflers to smooth out gas pulsations and reduce vibration and noise
- Removable fusible plug installed models M30, M60, M80
- Non-Adjustable

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Suggested Tonnage	Ship Wgt (Lbs.)
M10	7/8	3.00	9.00	7.5 to 10	2.60
M15	1 1/8	3.00	9.25	10 to 15	2.80
M20	1 3/8	3.00	13.75	15 to 25	3.30

FLOAT VALVE


STV2LL

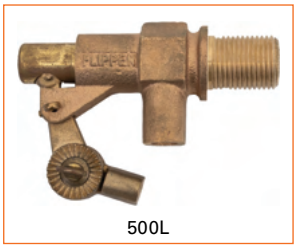
SADDLE TAP VALVE, LOW LEAD

- Self piercing on copper tubing or .035 wall hard PVC
- Fits 3/8" OD through 1 3/8" OD tubing or pipe
- Has a reversible lower bracket designed to prevent 3/8" tubing from collapsing

Supco

- STV2LL is low lead

	Connection
Part No.	Outlet Size (In.)
STV2LL	1/4


500L

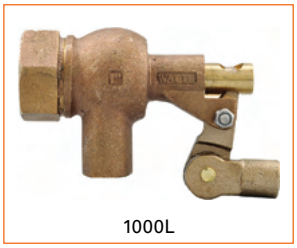
MPT INLET

This valve has a bronze body with a machine flange on the inlet side with female NPT pipe threaded inlet connection and male straight-pipe threaded for locknut outlet connection. It has serrated arms for easy adjustment of water level, bronze long and short arms, replaceable seals, and no-jam single lever action. The maximum pressure is 165 psi (11.4 bar).

WATTS

- Non-threaded outlet

	Connection				
Part No.	Size (In.)	Type	Stem Fitting	Length (In.)	Wgt (Lbs.)
500L	1/2	MPT	1/4 - 20	3.50	0.77
750L	3/4	MPT	1/4 - 20	4.00	0.90


1000L

FPT INLET

This valve has a bronze body with a machine flange on the inlet side with female NPT pipe threaded inlet connection and male straight-pipe threaded for locknut outlet connection. It has serrated arms for easy adjustment of water level, bronze long and short arms, replaceable seals, and no-jam single lever action. The maximum pressure is 165 psi (11.4 bar).

WATTS

- Non-threaded outlet

	Connection				
Part No.	Size (In.)	Type	Stem Fitting	Length (In.)	Wgt (Lbs.)
1000L	1	FPT	5/16 - 18	3.00	1.65
1250L	1 1/4	FPT	3/8 - 16	5.50	3.05
1500L	1 1/2	FPT	3/8 - 16	5.50	2.65
2000	2	FPT	3/8 - 16	6.00	3.35


11

STEM

These heavy duty brass threaded stems are designed for use with float valves to control high capacity water flow. They are made of heavy duty brass with NPT threaded ends for valve and float.

WATTS

- Brass with threads both ends

Part No.	Thread Ends 1	Thread Ends 2	Length (In.)	Diameter (In.)	Wgt (Lbs.)
11	1/4 - 20	1/4 - 20	10.00	0.75	0.15
115	1/4 - 20	5/16 - 18	12.00	0.31	0.10
12L	5/16 - 18	5/16 - 18	12.00	0.31	0.27
125	5/16 - 18	3/8 - 16	12.00	3/8	0.20
13L	3/8 - 16	3/8 - 16	12.00	0.38	0.10



AD10

STEM ADAPTER

Used to connect a heavy duty float and stem for float valve applications.

Features

Male float threads

Female thread for the stem

Bronze Body

Used to connect heavy duty float and stem

Part No.	Male Float Thread (In.)	Female Stem Thread (In.)
AD10	1/4-20	5/16-18
AD11	1/4-20	3/8-16



PX

PLASTIC FLOAT

- Features
- All injection molded polyethylene construction
- Highly corrosion resistant
- Unaffected by salt and caustic fluids
-

Resistant to sunlight deterioration

Part No.	Diameter (In.)	Thread Female	Wgt (Lbs.)
PX	5.00	1/4 - 20	0.10
P6	6.00	1/4 - 20	0.30



C4L

COPPER FLOAT

- High grade copper construction
- Firmly bonded overlapping joints (lead-free solder)
- Maximum temperature: 200°F

Part No.	Diameter (In.)	Thread Female	Wgt (Lbs.)
C4L	4.00	1/4 - 20	0.25
C5L	5.00	1/4 - 20	0.41
C6L	6.00	1/4 - 20	1.40
C67	6.00	5/16 - 18	0.65
C63	6.00	3/8 - 16	0.80
C8L	8.00	3/8 - 16	1.55
C10L	10.00	3/8 - 16	2.75



C1/4TF

EVAPORATIVE COOLER FLOAT

- Bronze body
- Machined in-seat
- Buna N Seals
- Adjustable brass arms
- Polyethylene float
- Copper tube compression inlet connection
- Maximum pressure: 100 psi
- Maximum temperature: 140°F
- 100 psi capacity: 3 GPM
- Length: 12", 5 3/4" stem

Part No.	Connection Size (In.)	Wgt (Lbs.)
C1/4TF	1/4	0.12



AUTOMATIC CONDENSATE PUMP



CP22115

CONDENSATE PUMP

- Audible Alarm (80 db), alerts when reservoir is full
- Overflow safety switch: N/C contacts open when reservoir is full or power is lost
- Metal hanging tabs
- 4 condensate inlets
- Anti-vibration rubbert feet

Check valve (can be opened to drain condensate into reservoir)

IRP International Refrigeration Products

						Dimensions (In.)					GPH at			
Part No.	Voltage	Amps	Watts	Tank Capacity (Gal.)	HP	H	W	L	Safety Switch	Max. Lift (Ft.)	1 ft	5 ft	10 ft	20 ft
CP22115	115	1.50	80	1/2	1/10	7.68	5.91	11.81	Yes	22.0	99	87	69	20
CP22230	230	1	230	1/2	1/30	7.68	5.91	11.81	Yes	22.0	84	76	63	28



VCMA15ULS115

VCMA-15 SERIES

- 1/2 gallon collection tank
- Vertical centrifugal pump design
- Automatic start and stop operation
- 3/8" OD barbed discharge adapter with built-in check valve
- Three 1-1/8" diameter inlet openings (two fitted with removable cap plug)
- Thermally protected, fan cooled motor
- Removable pump float locking tab for safety during transportation (remove at time of installation)
- Maximum water temperature: 140°F
- 6 ft, 3-conductor cable with grounded 3-prong plug

Little GIANT

						Dimensions (In.)				GPH at			Shut-Off
Part No.	Voltage	Amps	Watts	Tank Capacity (Gal.)	HP	H	W	L	Safety Switch	1 ft	5 ft	10 ft	Ft
VCMA15ULS115	115	1.00	60	0.5	1/50	7.03	5.00	11.00	Yes	65	50	25	15.0
VCMA20ULS	115	1.50	93	1.0	1/30	7.03	5.00	10.30	Yes	80	70	48	20.0



VCCA20ULS230V

VCMX SERIES

- External test/run lever
- Slim footprint
- Vertical centrifugal pump design
- Automatic start and stop operation
- Galvanized steel "quick install" wall mount bracket
- Equipped with external, float activated switch for automatic high level water detection (safety overflow switch)
- Models equipped with safety overflow switch include two 5" switch lead wires
- 3/8" OD barbed -turn quick release, locking discharge adapter with built-in check valve
- Rubber feet for vibration/noise dampening
- "Anti-sweat" tank sleeve included on select models and available separately for all others
- (3) 1-1/8" diameter inlet openings, two fitted with removable cap plug (3 + 1 inlet openings for models without safety overflow switch)
- Recessed tank sump
- Oil resistant tank and check valve
- Thermally protected, fan cooled motor
- Maximum water temperature: 140°F
- 6', 3-conductor cable with grounded 3-prong plug

Little GIANT

					Dimensions (In.)				GPH at			Shut-Off
Part No.	Voltage	Amps	Watts	HP	H	W	L	Safety Switch	1 ft	5 ft	10 ft	Ft
VCCA20ULS230V	230	0.6/0.5	75	1/30	5.00	5.00	2.00	Yes	80	70	445	17.0
VCCA20ULS115V	115	1.5	75	1/30	5.00	5.00	2.00	Yes	80	70	45	20.0


BK221UL

MEDIUM CONDENSATE PUMP

Beckett's family of medium condensate pumps are designed to meet or exceed your toughest job demands, including high-efficiency gas furnaces. This updated design is engineered for long life and quiet operation. It includes easy-to-install features like multi-slot metal wall hanging brackets, bullseye level on the lid, and a twist-lock check valve requiring no tools. After installation, the lift-to-test tab is an easy way to check pump operation without removing the motor cover. Rated for condensate water up to 150° F. Automatic start/stop operation with a thermally protected motor. A larger 2.5-quart tank means more water pumped out per cycle so the pump runs less and lasts longer.

beckett™

					Dimensions (In.)					GPH at		
Part No.	Voltage	Amps	Watts	Tank Capacity (Gal.)	H	W	L	Safety Switch	Max. Lift (Ft.)	1 ft	10 ft	15 ft
BK221UL	115	1.20	65	2.5	6.60	5.20	11.20	Yes	22.0	125	83	60
BK222UL	230	0.90	77	2.5	6.60	5.20	11.20	Yes	22.0	156	103	68
BK171UL	115	1.10	60	2.5	6.60	5.20	11.50	Yes	17.0	112	64	19
BK171LSUL	115	1.10	60	2.5	6.60	5.20	11.20	No	17.0	112	64	19
BK221LSUL	115	1.20	65	2.5	6.60	5.20	11.20	No	22.0	125	83	50


CB121LSUL

CB SERIES, AUTOMATIC

- All black flame retardant plastic
- Larger high impact ABS tank
- Stronger motor
- Can mount from either side
- New improved duck-bill check valve design
- Three intake holes
- Reliable micro switch float mechanism
- Heavy gauge steel motor mount
- Capable of handling mild acids
- Stainless steel shaft
- Thermal overload protection
- Tank capacity: 2 U.S. quarts
- 3/8" barbed outlet with check valve
- Dimension: 11 1/8"L x 5"W x 6 1/4"H

beckett™

				Dimensions (In.)				GPH at			Shut-Off
Part No.	Voltage	Amps	Watts	H	W	L	Check Valve	1 ft	5 ft	10 ft	Ft
CB121LSUL	115	0.50	26	5.10	3.10	7.50	No	57	36	12	12.5


CB251UL

CB SERIES, AUTOMATIC

- Molded plastic design for more efficient and quieter operation
- Conduit connection
- Flame retardant motor cover
- Built-in safety switch
- Replaceable check valve, 3/8" OD outlet
- One gallon tank capacity
  All units 6" Wide, 12" Long;
- CB22 series 9 1/4" High,
- CB25 series 10" High
- CB50 series 10 1/8" High
- HT models: High temperature tank rated at 190°F
- HTS models: High temperature tank rated at 212°F

beckett™

					Dimensions (In.)					GPH at				Shut-Off
Part No.	Voltage	Amps	Watts	HP	H	W	L	Safety Switch	Check Valve	1 ft	5 ft	10 ft	20 ft	Ft
CB251UL	115	1.30	150	1/20	10.00	5.90	12.00	Yes	Included	108	100	84	40	25.0
CB251ULHT[1]	115	1.30	150	1/20	10.00	5.90	12.00	Yes	Included	108	100	84	40	25.0
CB252UL	230	0.90	150	1/20	10.00	5.90	12.00	Yes	Included	108	100	84	40	25.0
CB252ULHT[1]	230	0.90	150	1/20	10.00	5.90	12.00	Yes	Included	108	100	84	40	25.0
CB501UL	115	4.00	360	1/5	10.00	5.90	12.00	Yes	Included	476	441	396	306	50.0
CB501ULHTS[1]	115	4.00	360	1/5	10.00	5.90	12.00	Yes	Included	476	441	396	306	50.0
CB502UL	230	1.90	360	1/5	10.00	5.90	12.00	Yes	Included	486	453	412	337	50.0
CB502ULHTS[1]	230	1.90	360	1/5	10.00	5.90	12.00	Yes	Included	486	453	412	337	50.0
CB504UL	460	0.80	360	1/5	10.00	5.90	12.00	Yes	Included	420	380	355	310	50.0
CB504ULHTS[1]	460	0.80	360	1/5	10.00	5.90	12.00	Yes	Included	420	380	355	310	50.0

[1] High Temperature

AUTOMATIC CONDENSATE PUMP


CL201UL

LOW PROFILE

This high efficiency furnace model is compact and has a low profile so that it can be used in applications where space is limited. This unit is capable of handling high acidity condensation. Tank capacity .85 U.S. quarts.

beckett

					Dimensions (In.)					GPH at				Shut-Off
Part No.	Voltage	Amps	Watts	HP	H	W	L	Safety Switch	Check Valve	1 ft	5 ft	10 ft	15 ft	Ft
CL201UL	115	1.95	90	1/30	4.75	5.00	11.13	Yes	Included	115	92	62	33	20.0
CL202UL	230	1.02	90	1/30	4.75	5.00	11.13	Yes	Included	115	92	62	33	20.0


LPCP22115

LOW PROFILE

IRP International Refrigeration Products

			Dimensions (In.)				GPH at			
Part No.	Voltage	HP	H	W	L	Safety Switch	1 ft	5 ft	10 ft	20 ft
LPCP22115	115	1/13	5.00	6.00	12.00	Yes	145	75	55	15
LPCP22230	115	1/13	5.00	6.00	12.00	No	146	78	55	15


G325A

SUBMERSIBLE PUMP

The Versa Series submersible pumps offer a top of the line epoxy encapsulated design to meet all your continuous duty requirements. They are environmentally safe, energy-efficient and can be used in a variety of industrial applications. Each pump features a heavy duty sleeve bearing motor for maximum output and reliability.

Applications:

- Continous duty operation
- Low maintenance
- Underwater use only
- Environmentally safe
- Not oil-filled

beckett

					Dimensions (In.)				GPH at		Shut-Off
Part No.	Voltage	Amps	Watts	HP	H	W	L	Max. Lift (Ft.)	1 ft	10 ft	Ft
G325A	115	0.80	50	1/40	3.75	4.00	5.00	12.2	340	135	12.2


ASPMWUNI

MINI WHITE

Designed to be fitted below the indoor unit, the Mini White offers an extremely easy to install mini pump for all wall and ceiling suspended indoor units. Snap-on snap-off cover allows for easy filter maintenance.

- Fits any mini-split up to 30,000 Btuh
- Self-priming, automatically operates on water rise
- External mount allows for easy cleaning of filter cartridge
- Quiet, only 21 db(A)
- Kit includes: monobloc pump assembly, 39" power cable, inline fuse, installation manual, wall anchors, screws, hose clamp

ASPEN PUMPS

		Cutoff		Dimensions (In.)		
Part No.	Voltage	GPH	Head (Ft.)	H	W	L
ASPMWUNI	100-250	2.8 0'	33	4.50	2.00	7.13


SI301

PISTON PUMP

- Quiet in operation
- The size of the air-conditioning unit and volume of condensates to be removed does not affect the operational sound level of the pump
- New mounting bracket: allows the pump to be wall mounted or hung from ceilings and pipework
- Improved performance and high flow rate reduce operation time and energy consumption

Kit includes:

- Piston pump
- Anti-vibration mounting bracket
- Plug in power cable with 2 safety switch wires (5ft)
- 6 tie wraps, 1/10" x 4"
- Detection unit SI2958, with 5 ft cable
- Rubber elbow
- Vent tube
- Mountaing rail
- Adhesive

sauermann™

		Cutoff		
Part No.	**Voltage**	**GPH**	**Head (Ft.)**	**Use with**
SI301	120	2.6	20	AC units up 5.6 tons
SI302	208-230	2.6	20	AC units up 5.6 tons
SI331	120	N/A	N/A	AC Units 5.6 tons to 8.4 tons
SI332	208-230	N/A	N/A	AC Units 5.6 tons to 8.4 tons


3004045

AUTOMATIC CONDENSATE PUMP, GOBI II

The Gobi II has a massive flow range allowing its use from 6,000 Btu/H (1.75kW) up to 120,000 Btu/H (35 kW). Its digital water sensor, universal voltage and user configurable flow ensure it is the strongest, quietest under A/C mounted condensate pump on the market today.

- Integrated replaceable 10 A fuse
- Diagnostic LED: ensures correct initial installation and assists in diagnostics
- USB connection View operational pump history
- Max flow rate: 11 GPH
- Max suction: 10' self priming
- Max head: 65.60 ft

REFCO

	Cutoff				Dimensions (In.)			
Part No.	**Head (Ft.)**	**Voltage**	**Amps**	**Watts**	**H**	**W**	**L**	**Check Valve**
3004045	65.60	100-240	10.00	8	2.10	2.10	11.30	Included


X86003

MICROBLUE®

With no additional silencing accessories required, not only is the MircoBlue® a silent running pump but it can also be mounted in any orientation whilst operating both wet and dry continuously. The MicroBlue® is a dual voltage pump which uses proven thermistor level sensing technology to remove the risk of stuck or sunken float switches.

- Can be mounted in any orientation up to 6ft away from the air conditioning unit.
- 3 year warranty

Blue Diamond Pumps Inc

		Cutoff		Dimensions (In.)		
Part No.	**Voltage**	**GPH**	**Head (Ft.)**	**H**	**W**	**L**
X86003*	115/230	1.3	16	2.00	6.00	11.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AUTOMATIC CONDENSATE PUMP


X87835

MEGABLUE™ WITH RESERVOIR

MegaBlue™ has the performance to overcome all installation difficulties, just plug and play, fit and forget. The revolutionary pump operating principle makes it inherently reliable and is backed by a 3-year warranty.

- Very quiet (22 dB) and low vibration
- Slimline/lightweight 2.2 lbs
- Thermally protected pump
- Integral failsafe alarm
- Includes reservoir sensing with alarm contacts
  You can limit service calls to stalled or clogged mini pumps.
- Dry suction lift 23 ft (self priming)

Blue Diamond Pumps Inc

		Cutoff		Dimensions (In.)		
Part No.	Voltage	GPH	Head (Ft.)	H	W	L
X87835*	110/230	13.2	66.5	6.00	6.00	18.00


X87711

MAXIBLUE™ WITH RESERVOIR

Designed for high humidity environments MaxiBlue™ benefits from being a small powerful pump that is controlled by Blue Diamond's patented sensing technology (only senses when water is present offering an energy efficient drainage solution). MaxiBlue™ is ideally suited for mid range air conditioning systems. Its exceptional reliability is backed by a 3-year warranty and class leading performance/suction lift has led it to be installed in environments that are both demanding and expensive to access for maintenance.

- Dry suction lift 16.5 ft (self priming)
- Very quiet (21 dB) and no vibrations
- Thermally protected
- Proven rotary diaphragm technology
- Energy efficient
- Integral failsafe alarm
- Can be mounted in any orientation
- Includes reservoir sensing with alarm contacts

Blue Diamond Pumps Inc

		Cutoff		Dimensions (In.)		
Part No.	Voltage	GPH	Head (Ft.)	H	W	L
X87711*	110	3.7	23	6.00	6.00	8.00
X87721*	208-230	3.7	23	6.00	6.00	8.00
X87505	115	2.1	23	6.00	6.00	8.00


C13192

BLUE DIAMOND PUMP ACCESSORIES

Blue Diamond Pumps Inc

Part No.	Description
C13192*	Alarm Extension Cable
C21014*	MultiTank Kit Reservoir
F10011*	Mounting Feet
T18016*	Fascia Kit (Fits X85003)

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TRANSFER PUMP


360115V

NON-SUBMERSIBLE, SELF-PRIMING TRANSFER PUMP, PONY PUMP SERIES

This lightweight 115 volt AC pump can be used to empty water beds, drain water heaters or aquariums, transfer water to an RV, and other applications where water needs to be transferred.

- Self-priming for instant delivery or de-watering up to 6'
- Rugged metallic handle for easy portability
- Dual threaded intake and discharge with both 3/4" male garden hose thread and 3/8" FNPT

Little GIANT

				GPH at						
Part No.	Voltage	Amps	HP	1 ft	5 ft	10 ft	15 ft	20 ft	Shut-Off (Ft.)	Wgt (Lbs.)
360115V	115	1.60	1/10	360	342	300	285	270	48.3	5.50

PUMP ACCESSORIES


J100

SAFETY SWITCH

A water-level sensing device that is designed to shut down the air conditioning or refrigeration unit in the event of a high water level in the pan or reservoir.
The switch may be wired in a normally open or a normally closed position. The kit comes complete with 72" leads and installation instructions.

HARTELL
an Accudyne Industries brand

Part No.	Description
J100*	Safety Switch


DT164

MINI-SPLIT CONDENSATE DRAIN HOSE

- UV Protected
- Poly Ethylene
- Anti-Microbial

IRP International Refrigeration Products

Part No.	Description
DT26	5/8" Drain Hose, Non-Insulated, 26' Roll, single use
DT164	5/8" Drain Hose, Non-Insulated, 164' Roll


83012

MINI-SPLIT CONDENSATE DRAIN HOSE

- Corrugated construction provides maximum flexibility, eliminates crimping; interior use only.
- Smooth Bore, resists clogging, reduces resistance and maximizes condensate flow, less flexible than standard hose.
- UV Resistant, resists deterioration from sunlight, suitable for exterior applications.

RECTORSEAL

Part No.	Description
83012	3/4" Drain Hose, Insulated, 65' Roll

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRAIN PAN ACCESSORIES



AG-3150E

ELECTRONIC WATER SENSING SYSTEM

Mounted directly in the secondary drain port of the primary pan. It is a high-amperage, solid-state switch with no moving parts to break down or become clogged and the low profile design makes it easy to install and does not interfere with drain lines coming from the HVAC unit.

- 5 amp high-capacity sensor designed for secondary drains.
- Eliminates false shut-offs caused by trapped condensation.
- 2 in 1 secondary drain + secondary pan sensor.
- Moisture detection LED alerts you to problems.

RESOURCE CONSERVATION TECHNOLOGIES

Part No.	Description
AG-3150E	Electronic Water Sensing System for Secondary Drains



1502SS

SAFETY CONTROL SWITCH

The switch may be wired directly to the system to turn off the air conditioner or furnace equipment, or it can be wired to sound an alarm if the water level becomes too high. Rated 125V, 5A, 1/10 HP. Wired normally closed.

- Single pole, double throw, single break snap action switches
- Prewired—leads 17" + 1/2"
- Safe for either AC or DC (low voltage) applications

beckett™

Part No.	Description
1502SS	Safety Control Switch



AG3180E

PLENUM RATED MICRO PAN SENSOR

- Perfect Solution for Commercial or Self-Contained Package Units, Metal/Plastic Secondary Drain Pans & Primary Pan with Time Delay
- Meets International Building Codes & Primary Pan Code Requirements
- Time Delay: Up to 60 Seconds On
- 6 Feet of Both Plenum Rated Probe and Sensor Wire
- 5 Amp, 24 Volts AC Solid State Sensor with Patent Pending Smart Sensor Technology
- Switch Can Be Normally Open or Normally Closed
- Normally Open 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems
- Compact Waterproof Design

RECTORSEAL

Part No.	Description
AG3180E	Plenum Rated Micro Pan Sensor Plus Bonus Secondary Sensor


AG4100-G18

DRAIN PAN FLOAT SWITCH

The AquaGuard is incredibly easy to install and can be mounted to the drain pan in just a few seconds. Installation does not require a hole in the pan. The Aquaguard switch incorporates a protective cover to keep out insulation and debris that could prevent the float from rising.

RESOURCE CONSERVATION TECHNOLOGIES

Part No.	Description
AG4100-G18	Drain Pan Float Switch (for Goliath Drain Pans)
AG-1100+	Drain Pan Float Switch (for Metal Drain Pans)
AG-1200+	Drain Pan Float Switch (for Metal or Plastic Drain Pans)


CU7

CHECK VALVE

beckett

Part No.	Connection Size (In.)
CU7	3/8 Copper x 3/8 Copper
CU8	1/4 MNPT x 3/8 Copper

HEAVY DUTY AUTOMATIC PUMP


A2X1965

GENERAL PURPOSE

Hartell's A2X-1965 series is a reliable and proven product for high pumping capacity in plenum air handling spaces. Our condensate pump is designed to meet the rigorous standards for plenum air handling spaces. It features a durable cast aluminum reservoir that provides superior performance and longevity.

HARTELL an Accudyne Industries brand

				Connection Size (In.)				Dimensions (In.)				
Part No.	Reservoir Size (Gal.)	Max. Head (Ft.)	Max. Temp. (°F)	Connection Size Inlet (In.)	Connection Size Outlet (In.)	Voltage	Amps	H	W	L	Safety Switch	Ship Wgt (Lbs.)
A2X1965*	1	22	150	1 3/8	3/8	115/230	3.10/1.50	10.00	6.00	9.00	Yes	14.00

SUBMERSIBLE PUMP


IPC13A

IN PAN CONDENSATE

The Beckett IPC13A is a totally submersible pump with a built-in, hermetically sealed, pressure activated switch. The pump operates automatically when the water level reaches approximately 1.2 inches and turns off at .75 inch. Because it is totally submersible, this pump may be used in virtually any application where automatic control and dependability are required. The compact size, along with high lift and quiet operation of the IPC13A are well suited to a wide range of consumer and O.E.M. requirements, including condensation removal.

beckett

					Dimensions (In.)					GPH at			Shut-Off
Part No.	Voltage	Amps	Watts	HP	H	W	L	Safety Switch	Check Valve	1 ft	5 ft	10 ft	Ft
IPC13A	115	0.90	55	1/50	4.00	9.25	8.00	No	Included	80	70	45	12.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRAIN PAN



DP1838S

SECONDARY, PLASTIC

- Rolled edges for durability
- Ribbed bottoms for rigidity
- Reinforced corners for strength
- 3/4" PVC fittings attached to each pan
- No seams, no rust, no leakage
- Depth 2"; Overall dimension + 2"
- "S" suffix = Drain line outlets in short side
- "L" suffix = Drain line outlets in long side

DIVERSITECH

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP1838S	20.00	40.00	2.00	2.84
DP2424L	26.00	26.00	2.00	2.20
DP2739L	27.00	39.00	2.00	4.12
DP2748L	29.00	50.00	2.00	4.80
DP2763L	29.00	65.00	2.00	6.20
DP3030L	32.00	32.00	2.00	3.18
DP3050L	32.00	52.00	2.00	5.20
DP3060L	32.00	62.00	2.00	5.74
DP3263L	34.00	65.00	2.00	6.50
DP3660L	38.00	62.00	2.00	6.80



DP24X48

SECONDARY, PLASTIC

- Includes drain fitting

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP24X48	24.00	48.00	2.50	2.00
DP27X48	27.00	48.00	2.50	5.00
DP27X64	27.00	64.00	2.00	5.00
DP30X60	30.00	60.00	2.00	5.00



DP2424-26

SECONDARY, METAL

Galvanized auxiliary drain pans with adapter fitting

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP2424-26	24.00	24.00	2.00	1.01
DP2428-26	24.00	28.00	2.00	4.49
DP2626-26	26.00	26.00	2.00	4.52
DP2424-Z4	24.00	24.00	2.00	6.40
DP2634-26	26.00	34.00	2.00	4.52
DP2648	26.00	48.00	2.00	10.00

Continued on next page

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP2653	26.00	53.00	2.00	10.00
DP2658	26.00	58.00	2.00	10.00
DP2860	28.00	60.00	2.00	12.80
DP3030-26	30.00	30.00	2.00	6.95
DP30X30	30.00	30.00	2.00	6.95
DP3060	30.00	60.00	2.00	12.80
DP3066	30.00	66.00	2.00	13.00
DP3260	32.00	60.00	2.00	13.00
DP3263	32.63	63.00	2.00	14.48
302-2424	24.00	24.00	2.00	4.60
302-2448	24.00	48.00	2.00	3.00
302-2626	26.00	26.00	2.00	10.00
302-2748	27.00	48.00	2.00	6.70
302-2763	27.00	63.00	2.00	7.50
302-3030	30.00	30.00	2.00	8.00
302-3060	30.00	60.00	2.00	10.30
302-3162	31.00	62.00	2.00	10.00
302-3274	32.00	74.00	2.00	15.80
302-3636	36.00	36.00	2.00	8.50
40420603	6.00	68.00	1.00	12.00
40420604	7.00	90.00	6.00	4.00



AGG27X64

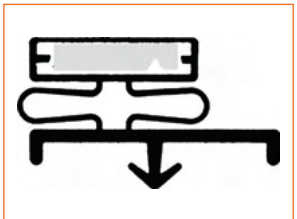
SECONDARY, PLASTIC

- Reinforced walls with gussets to resist buckling and add support
- Rubber mounts to reduce vibration
- Built in structural support
- Extreme temperature resistance

RECTORSEAL

Part No.	Width (In.)	Length (In.)	Ship Wgt (Lbs.)
AGG27X64	27.00	64.00	5.00
AGG30X50	30.00	50.00	5.00
AGG30X60	30.00	60.00	5.00

GASKETS



P22098

MAGNETIC, LENGTH

Shipped in 8' lengths.

HOLM Industries

Part No.	Width (In.)
P22098	1/2



Chillers	Page
• Packaged Air Cooled Chiller	298-307
• Shell and Tube Chiller	307

Heat Exchangers	Page
• Brazed Plate Heat Exchanger	308

PACKAGED AIR COOLED CHILLER

SCROLL COMPRESSOR

Standard Features

- ETL listed
- Stainless steel brazed plate evaporator with 1/2" insulation and secured in a steel bracket
- Advanced Microprocessor: BMS, BAS communications, remote access, monitoring services
- Scroll compressor (digital scroll compressor for -ZD models) with crankcase heater
- Suction accumulator
- Water flow switch
- 24V control transformer
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- Painted galvanized sheet metal cabinet
- 1/2" insulation on all water and refrigerant lines
- Liquid line drier, sightglass, solenoid, TEV
- Full refrigerant charge from factory
- Phase monitor
- Hot gas by-pass capacity control on standard scroll models (not -ZD or tandem models)
- "Hard start kit" (single phase units only)

Available Options

- Remote touchscreen panel
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) sevice outlet
- Fused disconnect
- Compressor fusing
- EC Fan motor(s) (+10°)
- Flooded condenser with receiver/head pressure control (-20°F)
- Heated flooded condenser with receiver/head pressure control (-40°F)
- Factory installed evaporator heat tape freeze protection thermostatically controlled
- Fused stainless steel process pump with unions and ball valves
- Water pressure gauge set
- Dual system pump with manual changeover or auto changeover
- Low flow bypass valve
- Electroplated, copper or heresite finned condenser coil (coastal protection)
- Shell and tube evaporator barrel
- Water flow meter
- Auto city water make up solenoid
- Auto city water changeover panel with 5 micron filter option
- Special piping for de-ionized and reverse osmosis water systems
- OSHPD special seismic certification (up to 240D model)



PAC36S3-T3-ZD

DIGITAL SCROLL, SINGLE CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC36S3-T3-ZD	39600	208-240/3	56	34	40	1 FPT	1	4	14.6	99.0	1	3.3	25	35	500.00
PAC36S3-T4-ZD	39600	460/3	56	34	40	1 FPT	1	4	6.9	48.0	1	1.6	15	15	500.00
PAC48S3-T3-ZD	52800	208-240/3	56	34	40	1 FPT	1	5	20.7	128.0	1	3.3	30	50	550.00
PAC48S3-T4-ZD	52800	460/3	56	34	40	1 FPT	1	5	8.9	63.0	1	1.6	15	20	550.00
PAC60S3-T3-ZD	60000	208-240/3	56	34	40	1 FPT	1	6	20.1	156.0	1	3.3	30	45	600.00
PAC60S3-T4-ZD	60000	460/3	56	34	40	1 FPT	1	6	9.1	75.0	1	1.6	15	20	600.00
PAC70S3-T3-ZD	84000	208-240/3	85	34	40	1 1/4 FPT	1	8	32.1	195.0	2	3.3	50	70	700.00
PAC70S3-T4-ZD	84000	460/3	85	34	40	1 1/4 FPT	1	8	16.4	95.0	2	1.6	25	35	700.00
PAC90S3-T3-ZD	108000	208-240/3	85	34	40	1 1/4 FPT	1	10	41.4	239.0	2	3.3	60	100	750.00
PAC90S3-T4-ZD	108000	460/3	85	34	40	1 1/4 FPT	1	10	19.2	125.0	2	1.6	30	45	750.00
PAC180S3-T3-ZD	150000	208-230/3/60	85	34	47	1 1/2 FPT	1	15	60	340.0	2	3.2	85	140	1400.00
PAC180S3-T4-ZD	150000	460/3/60	85	34	47	1 1/2 FPT	1	15	31.4	173.0	2	1.6	45	70	1400.00


PACT36S3-T3-ZD

DIGITAL SCROLL, SINGLE CIRCUIT WITH TANK, R407C R404A

			Dimensions (In.)					Compressor				Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Tank Capac-ity (Gal.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PACT36S3-T3-ZD	36600	208-240/3	56	34	66	1 FPT	30	1	4	14.6	99.0	1	3.3	30	40	800.00
PACT36S3-T4-ZD	36600	460/3	56	34	66	1 FPT	30	1	4	6.9	47.0	1	1.6	15	15	800.00
PACT48S3-T4-ZD	48000	460/3	56	34	66	1 FPT	60	1	5	8.9	63.0	1	1.6	15	20	850.00
PACT60S3-T3-ZD	54000	208-240/3	56	34	66	1 FPT	60	1	6	20.1	156.0	1	1.6	35	50	900.00
PACT60S3-T4-ZD	54000	460/3	56	34	66	1 FPT	60	1	6	9.1	75.0	1	1.6	15	20	900.00
PACT70S3-T3-ZD	73500	208-240/3	85	34	66	1 1/4 FPT	60	1	8	32.1	195.0	2	3.3	60	80	1100.00
PACT70S3-T4-ZD	73500	460/3	85	34	66	1 1/4 FPT	60	1	8	16.4	95.0	2	1.6	30	40	1100.00
PACT90S3-T3-ZD	95400	208-240/3	85	34	66	1 1/4 FPT	90	1	10	41.4	239.0	2	3.3	70	110	1250.00
PACT90S3-T4-ZD	95400	460/3	85	34	66	1 1/4 FPT	90	1	10	19.2	125.0	2	1.6	35	45	1250.00
PACT48S3-T3-ZD	48000	208-240/3	56	34	66	1 FPT	60	1	5	20.7	128.0	1	1.6	35	50	850.00


PAC72D3-T3-ZD

DIGITAL SCROLL, DUAL CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Pro-cess (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC72D3-T3-ZD	80400	208-240/3	75	34	47	1 1/4 FPT	2	4	14.6	99.0	2	3.3	45	50	900.00
PAC72D3-T4-ZD	80400	460/3	75	34	47	1 1/4 FPT	2	4	6.9	48.0	2	1.6	20	25	900.00
PAC96D3-T3-ZD	105800	208-240/3	75	34	47	1 1/4 FPT	2	5	20.7	128.0	2	3.3	60	70	1000.00
PAC96D3-T4-ZD	105800	460/3	75	34	47	1 1/4 FPT	2	5	8.9	63.0	2	1.6	25	30	1000.00
PAC120D3-T3-ZD	118800	460/3	75	34	47	1 1/4 FPT	2	6	20.1	156.0	2	3.3	60	70	1150.00
PAC120D3-T4-ZD	118800	460/3	75	34	47	1 1/4 FPT	2	6	9.1	75.0	2	1.6	30	40	1150.00
PAC140D3-T3-ZD	162000	208-240/3	85	40	47	1 1/2 FPT	2	8	32.1	195.0	2	3.3	80	110	1400.00
PAC140D3-T4-ZD	162000	460/3	85	40	47	1 1/2 FPT	2	8	16.4	95.0	2	1.6	45	50	1400.00
PAC180D3-T3-ZD	210000	208-240/3	85	40	47	1 1/2 FPT	2	10	41.4	239.0	2	3.3	110	125	1500.00
PAC180D3-T4-ZD	210000	460/3	85	40	47	1 1/2 FPT	2	10	19.2	125.0	2	1.6	50	60	1500.00
PAC360D3-T3-ZD	301200	208-230/3/60	90.75	84.25	76.5	2 1/2 FPT	2	15	60	340.0	4	2.3	145	200	2600.00
PAC360D3-T4-ZD	301200	460/3/60	90.75	84.25	76.50	2 1/2 FPT	2	15	31.4	173.0	4	1.1	80	105	2600.00

PACKAGED AIR COOLED CHILLER



PACT72D3-T3-ZD

DIGITAL SCROLL, DUAL CIRCUIT WITH TANK, R407C R404A

			Dimensions (In.)					Compressor				Fan Motor			
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Tank Capacity (Gal.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Wt. (Lbs.)
PACT72D3-T3-ZD	73200	208-240/3	75	34	73	1 1/4 FPT	60	2	4	14.6	99.0	2	3.3	50	1100.00
PACT72D3-T4-ZD	73200	460/3	75	34	73	1 1/4 FPT	60	2	4	7.4	48.0	2	1.6	25	1100.00
PACT96D3-T3-ZD	96000	208-240/3	75	34	73	1 1/4 FPT	90	2	5	20.7	128.0	2	3.3	70	1200.00
PACT96D3-T4-ZD	96000	460/3	75	34	73	1 1/4 FPT	90	2	5	8.9	63.0	2	1.6	30	1200.00
PACT120D3-T3-ZD	108000	208-240/3	75	34	73	1 1/4 FPT	90	2	6	20.1	156.0	2	3.3	70	1250.00
PACT120D3-T4-ZD	108000	460/3	75	34	73	1 1/4 FPT	90	2	6	9.1	75.0	2	1.6	30	1250.00
PACT140D3-T3-ZD	147000	208-240/3	85	40	73	1 1/2 FPT	35	2	8	32.1	195.0	2	3.3	100	1500.00
PACT140D3-T4-ZD	147000	460/3	85	40	73	1 1/2 FPT	35	2	8	16.4	95.0	2	1.6	45	1500.00
PACT180D3-T3-ZD	190800	208-240/3	85	40	73	1 1/2 FPT	35	2	10	41.4	239.0	2	3.3	110	1600.00
PACT180D3-T4-ZD	190800	460/3	85	40	73	1 1/2 FPT	35	2	10	19.2	125.0	2	1.6	50	1600.00



PAC280Q3-T3-Z

QUAD PACKAGED AIR COOLED CHILLER, TANDEM SCROLL, DUAL CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC280Q3-T3-Z	288100	208-240/3	91	83	73	2	4	7	28.6	196.0	4	2.3	140	150	1.01
PAC330Q3-T3-Z	334000	208-240/3	91	83	73	2	4	8	32.1	195.0	4	2.3	150	170	1.01
PAC370Q3-T3-Z	374000	208-240/3	91	83	73	2	4	9	33.6	225.0	4	2.3	160	180	1.01
PAC430Q3-T3-Z	443000	208-240/3	131	83	73	2	4	10	41.4	239.0	6	2.3	190	230	1.01
PAC490Q3-T3-Z	504200	208-240/3	131	83	73	2.5	4	11	47.1	245.0	6	2.3	220	260	1.01
PAC540Q3-T3-Z	545600	208-240/3	131	83	73	2.5	4	13	55	300.0	6	2.3	250	300	1.01
PAC630Q3-T3-Z	642500	208-240/3	171	83	73	3	4	15	60	340.0	8	2.3	280	330	1.01
PAC840Q3-T3-Z	852800	208-240/3	171	83	73	3	4	20	81.4	490.0	8	2.3	370	440	1.01
PAC1020Q3-T3-Z	1035300	208-240/3	231	88	85	4	4	25	100	500.0	8	6.6	480	570	1.01
PAC1280Q3-T3-Z	1301500	208-240/3	231	88	85	4	4	30	121.4	600.0	8	6.6	570	690	1.01
PAC280Q3-T4-Z	288100	460/3	91	83	73	2	4	7	14.3	98.0	4	1.2	70	75	1.01
PAC330Q3-T4-Z	334000	460/3	91	83	73	2	4	8	16.05	97.5	4	1.2	80	85	1.01
PAC370Q3-T4-Z	374000	460/3	91	83	73	2	4	9	16.8	112.5	4	1.2	80	90	1.01
PAC430Q3-T4-Z	443000	460/3	131	83	73	2	4	10	20.7	119.5	6	1.2	100	110	1.01
PAC490Q3-T4-Z	504200	460/3	131	83	73	2.5	4	11	23.55	122.5	6	1.2	110	130	1.01
PAC540Q3-T4-Z	545600	460/3	131	83	73	2.5	4	13	27.5	150.0	6	1.2	130	150	1.01
PAC630Q3-T4-Z	642500	460/3	171	83	73	3	4	15	30	170.0	8	1.2	140	160	1.01
PAC840Q3-T4-Z	852800	460/3	171	83	73	3	4	20	40.7	245.0	8	1.2	190	220	1.01
PAC1020Q3-T4-Z	1035300	460/3	231	88	85	4	4	25	50	250.0	8	3.1	240	280	1.01
PAC1280Q3-T4-Z	1301500	460/3	231	88	85	4	4	30	60.7	300.0	8	3.1	290	340	1.01



PAC800D3-T3-T

PACKAGED AIR COOLED CHILLER, SCREW COMPRESSOR, DUAL CIRCUIT, R407C R404A

Standard Features

- Advanced Microprocessor: BMS, BAS communications, remote access, monitoring services
- Stainless Steel Brazed Plate Evaporator: Fully insulated and selected based upon application requirements
- Hanbell Screw Compressor: Robust, long lasting, rebuildable compressor with 3 year standard warranty
- Stepped Capacity Control: Allows for soft-start and stepless capacity control from 25-100%
- Suction Accumulator: Protects the compressor from damage caused by liquid flood back
- Compressor Crankcase Heater: Prevents compressor damage caused by liquid refrigerant on startup
- Water Flow Switch: Protects against process fluid freezing caused by fluid pump failure
- Copper Tube/Aluminum Fin Condenser: Rust resistant and high CFM
- Compressor Vibration Eliminators: Eliminates vibration transfer and reduces noise
- Galvanized Steel Metal Cabinet: Sturdy, corrosion resistant, professional appearance
- Insulated Process Fluid Lines: Maximum thermal efficiency
- Factory Tested: Ensures unit meets performance design criteria and arrives in working order
- Electronic Expansion Valves: Added consistency, efficiency, and control
- Full Refrigerant Charge: Hassle free and more efficient installation
- NEMA 3R Rated Electrical: Indoor/outdoor use
- Phase monitor

Available Options

- Extended Warranty: 5 year extended compressor warranty available (+2 years)
- Electrical: Compressor fusing, disconnects and more
- Stainless Steel Pumps: On board pumps in multiple configurations and options
- Fluid Piping Upgrades: Flow meters, pressure gauges, low flow bypass valves, and more
- Coastal Protection/Hazardous Environment: Heresite coating, "Gold", or Copper condenser coils
- Low Ambient Protection : Head pressure control for low ambient temperatures down to -40°F
- Service outlets, evaporator heat tape, etc...

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC800D3-T3-T	708000	208-240/3	175	88	88	3	2	38	136	480.0	6	6.6	350	480	1.01
PAC1000D3-T3-T	944000	208-240/3	175	88	88	3	2	50	180	650.0	6	6.6	450	620	1.01
PAC1200D3-T3-T	1219000	208-240/3	231	88	88	4	2	66	238	970.0	8	6.6	590	820	1.01
PAC1400D3-T3-T	1368000	208-240/3	231	88	88	4	2	70	254	970.0	8	6.6	630	870	1.01
PAC1600D3-T3-T	1665000	208-240/3	286	88	88	5	2	81	304	440.0	10	6.6	750	1050	1.01
PAC1800D3-T3-T	1818000	208-240/3	341	88	88	5	2	90	340	440.0	12	6.6	850	1180	1.01
PAC2000D3-T3-T	2153000	208-240/3	396	88	88	5	2	107	384	630.0	14	6.6	960	1340	1.01
PAC800D3-T4-T	708000	460/3	175	88	88	3	2	38	68	240.0	6	3.1	180	230	1.01
PAC1000D3-T4-T	944000	460/3	175	88	88	3	2	50	90	325.0	6	3.1	230	310	1.01
PAC1200D3-T4-T	1219000	460/3	231	88	88	4	2	66	119	485.0	8	3.1	300	410	1.01
PAC1400D3-T4-T	1368000	460/3	231	88	88	4	2	70	127	485.0	8	3.1	320	430	1.01
PAC1600D3-T4-T	1665000	460/3	286	88	88	5	2	81	152	720.0	10	3.1	380	520	1.01
PAC1800D3-T4-T	1818000	460/3	341	88	88	5	2	90	170	720.0	12	3.1	420	580	1.01
PAC2000D3-T4-T	2153000	460/3	396	88	88	5	2	107	192	815.0	14	3.1	480	660	1.01

PACKAGED AIR COOLED CHILLER


PAC12S3-S2-Z

SCROLL COMPRESSOR, SINGLE CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	BTUH at 95°F Amb. 45°F Lwt	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC12S3-S2-Z	14400	208-240/1	36	34	40	3/4 FPT	1	1.3	10	42.0	1	3.3	20	25	250.00
PAC18S3-S2-Z	20400	208-240/1	36	34	40	3/4 FPT	1	2	15.7	61.0	1	3.3	25	40	250.00
PAC18S3-T3-Z	20400	208-240/3	36	34	40	3/4 FPT	1	2	8.9	55.0	1	3.3	15	20	250.00
PAC18S3-T4-Z	20400	460/3	36	34	40	3/4 FPT	1	2	4.3	27.0	1	1.6	15	15	250.00
PAC24S3-S2-Z	24000	208-240/1	36	34	40	1 FPT	1	2.5	15.7	73.0	1	3.3	25	40	275.00
PAC24S3-T3-Z	24000	208-240/3	36	34	40	1 FPT	1	2.5	8.2	63.0	1	3.3	15	20	275.00
PAC24S3-T4-Z	24000	460/3	36	34	40	1 FPT	1	2.5	4.3	31.0	1	1.6	15	15	275.00
PAC30S3-S2-Z	32400	208-240/1	36	34	40	1 FPT	1	3.5	20.7	127.0	1	3.3	30	45	300.00
PAC30S3-T3-Z	32400	208-240/3	36	34	40	1 FPT	1	3.5	13.9	88.0	1	3.3	25	30	300.00
PAC30S3-T4-Z	32400	460/3	36	34	40	1 FPT	1	3.5	7.1	44.0	1	1.6	15	15	300.00
PAC36S3-S2-Z	39600	208-240/1	56	34	40	1 FPT	1	4	25.0	132.0	1	3.3	35	50	500.00
PAC36S3-T3-Z	39600	208-240/3	56	34	40	1 FPT	1	4	15.0	115.0	1	3.3	25	35	500.00
PAC36S3-T4-Z	39600	460/3	56	34	40	1 FPT	1	4	7.4	48.0	1	1.6	15	15	500.00
PAC48S3-S2-Z	52800	208-240/1	56	34	40	1 FPT	1	5	30.1	175.0	1	3.3	45	70	550.00
PAC48S3-T3-Z	52800	208-240/3	56	34	40	1 FPT	1	5	20.7	115.0	1	3.3	30	45	550.00
PAC48S3-T4-Z	52800	460/3	56	34	40	1 FPT	1	5	8.9	63.0	1	1.6	15	20	550.00
PAC50S3-S2-Z	56400	208-240/1	56	34	40	1 FPT	1	5	27.9	129.0	1	3.3	40	60	575.00
PAC60S3-T3-Z	60000	208-240/3	56	34	40	1 FPT	1	6	20.7	156.0	1	3.3	30	45	600.00
PAC60S3-T4-Z	60000	460/3	56	34	40	1 FPT	1	6	11.5	70.0	1	1.6	20	25	600.00
PAC70S3-T3-Z	84000	208-240/3	85	34	40	1 1/4 FPT	1	8	32.1	195.0	2	3.3	50	70	700.00
PAC70S3-T4-Z	84000	460/3	85	34	40	1 1/4 FPT	1	8	16.4	95.0	2	1.6	25	40	700.00
PAC80S3-T3-Z	92400	208-240/3	85	34	40	1 1/4 FPT	1	9	33.6	225.0	2	3.3	50	80	725.00
PAC80S3-T4-Z	92400	460/3	85	34	40	1 1/4 FPT	1	9	17.3	114.0	2	1.6	25	40	725.00
PAC90S3-T3-Z	108000	208-240/3	85	34	40	1 1/4 FPT	1	10	41.4	238.0	2	3.3	50	90	750.00
PAC90S3-T4-Z	108000	460/3	85	34	40	1 1/4 FPT	1	10	19.2	125.0	2	1.6	30	45	750.00
PAC120S3-T3-Z	134400	208-240/3	85	34	40	1 1/4 FPT	1	12	55.0	300.0	2	3.3	80	125	850.00
PAC120S3-T4-Z	134400	460/3	85	34	40	1 1/4 FPT	1	12	25.7	150.0	2	1.6	40	60	850.00
PAC180S3-T3-Z	148800	208-240/3	143	44	54	2 MPT	1	15	60.0	340.0	2	2.3	80	125	1600.00
PAC180S3-T4-Z	148800	460/3	143	44	54	2 MPT	1	15	31.4	173.0	2	2.4	45	70	1600.00
PAC250S3-T3-Z	210000	208-240/3	183	44	54	2 1/2 MPT	1	20	81.4	505.0	3	2.3	100	175	1700.00
PAC250S3-T4-Z	210000	460/3	183	44	54	2 1/2 MPT	1	20	37.9	225.0	3	3.6	60	80	1700.00
PAC300S3-T3-Z	253200	208-240/3	183	44	54	2 1/2 MPT	1	25	100.0	500.0	3	2.3	125	225	1800.00
PAC300S3-T4-Z	253200	460/3	183	44	54	2 1/2 MPT	1	25	48.6	250.0	3	3.6	70	110	1800.00
PAC380S3-T3-Z	295200	208-240/3	223	44	54	2 1/2 MPT	1	30	121.4	599.0	4	2.3	150	250	2000.00
PAC380S3-T4-Z	295200	460/3	223	44	54	2 1/2 MPT	1	30	59.3	310.0	4	4.8	80	125	2000.00



PAC72D3-S2-Z

SCROLL COMPRESSOR, DUAL CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor				Fan Motor				
Part No.	BTUH at 95°F Amb. 45°F Lwt	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC72D3-S2-Z	80400	208-240/1	75	34	47	1 1/4 FPT	2	4	25.0	132.0	2	3.3	70	80	900.00
PAC72D3-T3-Z	80400	208-240/3	75	34	47	1 1/4 FPT	2	4	15.0	115.0	2	3.3	45	50	900.00
PAC72D3-T4-Z	80400	460/3	75	34	47	1 1/4 FPT	2	4	7.4	48.0	2	1.6	20	25	900.00
PAC96D3-S2-Z	105800	208-240/1	75	34	47	1 1/4 FPT	2	5	30.1	175.0	2	3.3	80	100	1000.00
PAC96D3-T3-Z	105800	208-240/3	75	34	47	1 1/4 FPT	2	5	20.7	115.0	2	3.3	60	70	1000.00
PAC96D3-T4-Z	105800	460/3	75	34	47	1 1/4 FPT	2	5	8.9	63.0	2	1.6	25	30	1000.00
PAC100D3-S2-Z	111600	208-240/1	75	34	47	1 1/4 FPT	2	5	27.9	129.0	2	3.3	70	90	1100.00
PAC120D3-T3-Z	118800	460/3	75	34	47	1 1/4 FPT	2	6	20.7	156.0	2	3.3	60	70	1150.00
PAC120D3-T4-Z	118800	460/3	75	34	47	1 1/4 FPT	2	6	11.5	70.0	2	1.6	30	40	1150.00
PAC140D3-T3-Z	162000	208-240/3	85	40	47	1 1/4 FPT	2	8	32.1	195.0	2	3.3	80	110	1400.00
PAC140D3-T4-Z	162000	460/3	85	40	47	1 1/4 FPT	2	8	16.4	95.0	2	1.6	45	50	1400.00
PAC160D3-T3-Z	183600	208-240/3	85	40	47	1 1/4 FPT	2	9	33.6	225.0	2	3.3	90	110	1450.00
PAC160D3-T4-Z	183600	460/3	85	40	47	1 1/4 FPT	2	9	17.3	114.0	2	1.6	45	50	1450.00
PAC180D3-T3-Z	210000	208-240/3	85	40	47	1 1/2 FPT	2	10	41.4	239.0	2	3.3	100	125	1500.00
PAC180D3-T4-Z	210000	460/3	85	40	47	1 1/2 FPT	2	10	19.2	125.0	2	1.6	50	60	1500.00
PAC240D3-T3-Z	264000	208-240/3	66	75	49	1 1/2 FPT	2	12	55.0	300.0	4	3.3	150	175	1750.00
PAC240D3-T4-Z	264000	460/3	66	75	49	1 1/2 FPT	2	12	25.7	150.0	4	1.6	70	80	1750.00
PAC360D3-T3-Z	307200	208-240/3	143	84	54	2 1/2 MPT	2	15	60.0	340.0	4	2.3	150	200	2600.00
PAC360D3-T4-Z	307200	460/3	143	84	54	2 1/2 MPT	2	15	31.4	173.0	4	1.6	80	100	2600.00
PAC500D3-T3-Z	415200	208-240/3	183	84	54	3 MPT	2	20	81.4	505.0	6	2.3	200	250	2900.00
PAC500D3-T4-Z	415200	460/3	183	84	54	3 MPT	2	20	37.9	225.0	6	1.2	100	125	2900.00
PAC600D3-T3-Z	514800	208-240/3	223	84	54	3 MPT	2	25	100.0	500.0	8	2.3	225	300	3200.00
PAC600D3-T4-Z	514800	460/3	223	84	54	3 MPT	2	25	48.6	250.0	8	1.2	125	150	3200.00
PAC760D3-T3-Z	618000	208-240/3	223	84	54	4 VIC	2	30	121.4	599.0	8	2.3	300	400	4000.00
PAC760D3-T4-Z	618000	460/3	223	84	54	4 VIC	2	30	59.3	310.0	8	1.2	125	200	4000.00

PACKAGED AIR COOLED CHILLER


PACT12S3-S2-Z

SCROLL COMPRESSOR, SINGLE CIRCUIT WITH TANK, R407C R404A

Standard Features for Tank Models

- Stainless steel recirculation tank with 1/2" insulation
- Fused stainless steel re-circulation pump for tank operation with unions, ball valves and cleanable strainer
- Tank pressure relief valve, vent, and drain connections
- Tank sight glass

Options for Tank Models

- Tank low liquid level indicator with dry contacts
- Process pump VFD
- Tank heater

			Dimensions (In.)					Compressor				Fan Motor				
Part No.	BTUH at 95°F Amb. 45°F Lwt	Voltage	L	W	H	Fluid Process (In.)	Tank Capacity (Gal.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PACT12S3-S2-Z	14000	208-240/1	36	34	60	3/4 FPT	30	1	1.3	10	42.0	1	3.3	25	30	550.00
PACT18S3-S2-Z	18000	208-240/1	36	34	60	3/4 FPT	30	1	2	15.7	61.0	1	3.3	30	40	600.00
PACT18S3-T3-Z	18000	208-240/3	36	34	60	3/4 FPT	30	1	2	8.9	55.0	1	3.3	20	25	600.00
PACT18S3-T4-Z	18000	460/3	36	34	60	3/4 FPT	30	1	2	4.3	27.0	1	1.6	15	15	600.00
PACT24S3-S2-Z	22000	208-240/1	36	34	60	1 FPT	30	1	2.5	15.7	73.0	1	3.3	30	40	650.00
PACT24S3-T3-Z	22000	208-240/3	36	34	60	1 FPT	30	1	2.5	8.2	63.0	1	3.3	20	25	650.00
PACT24S3-T4-Z	22000	460/3	36	34	60	1 FPT	30	1	2.5	4.3	31.0	1	1.6	15	15	650.00
PACT30S3-S2-Z	28800	208-240/1	36	34	60	1 FPT	30	1	3.5	20.7	127.0	1	3.3	35	50	700.00
PACT30S3-T3-Z	28800	208-240/3	36	34	60	1 FPT	30	1	3.5	13.9	88.0	1	3.3	30	35	700.00
PACT30S3-T4-Z	28800	460/3	36	34	60	1 FPT	30	1	3.5	7.1	44.0	1	1.6	15	15	700.00
PACT36S3-S2-Z	36000	208-240/1	56	34	66	1 FPT	30	1	4	25.0	132.0	1	3.3	40	60	800.00
PACT36S3-T3-Z	36000	208-240/3	56	34	66	1 FPT	30	1	4	15.0	115.0	1	3.3	30	40	800.00
PACT36S3-T4-Z	36000	460/3	56	34	66	1 FPT	30	1	4	7.4	48.0	1	1.6	15	15	800.00
PACT48S3-S2-Z	49200	208-240/1	56	34	66	1 FPT	60	1	5	30.1	175.0	1	1.6	50	70	850.00
PACT48S3-T4-Z	49200	460/3	56	34	66	1 FPT	60	1	5	8.9	63.0	1	1.6	15	20	850.00
PACT50S3-S2-Z	51600	208-240/1	56	34	66	1 FPT	60	1	5	27.9	129.0	1	3.3	45	70	875.00
PACT60S3-T3-Z	55200	208-240/3	56	34	66	1 FPT	60	1	6	20.7	156.0	1	1.6	35	50	900.00
PACT60S3-T4-Z	55200	460/3	56	34	66	1 FPT	60	1	6	11.5	70.0	1	1.6	20	25	900.00
PACT70S3-T3-Z	75600	208-240/3	85	34	66	1 FPT	60	1	8	32.1	195.0	2	3.3	60	80	1100.00
PACT70S3-T4-Z	75600	460/3	85	34	66	1 FPT	60	1	8	16.4	95.0	2	1.6	25	35	1100.00
PACT80S3-T3-Z	84000	208-240/3	85	34	66	1 1/4 FPT	90	1	9	33.6	225.0	2	3.3	60	80	1150.00
PACT80S3-T4-Z	84000	460/3	85	34	66	1 1/4 FPT	90	1	9	17.3	114.0	2	1.6	30	40	1150.00
PACT90S3-T3-Z	98400	208-240/3	85	34	66	1 1/4 FPT	90	1	10	41.4	239.0	2	3.3	70	100	1250.00
PACT90S3-T4-Z	98400	460/3	85	34	66	1 1/4 FPT	90	1	10	19.2	125.0	2	1.6	30	45	1250.00
PACT120S3-T3-Z	122400	208-240/3	85	34	66	1 1/4 FPT	90	1	12	55.0	300.0	2	3.3	90	125	1300.00
PACT120S3-T4-Z	122400	460/3	85	34	66	1 1/4 FPT	90	1	12	25.7	150.0	2	1.6	40	60	1300.00
PACT48S3-T3-Z	49200	208-240/3	56	34	66	1 FPT	60	1	5	20.7	115.0	1	1.6	35	50	850.00

SCROLL COMPRESSOR, DUAL CIRCUIT WITH TANK, R407C R404A



PACT72D3-S2-Z

			Dimensions (In.)					Compressor				Fan Motor			
Part No.	BTUH at 95°F Amb. 45°F Lwt	Voltage	L	W	H	Fluid Process (In.)	Tank Capacity (Gal.)	Qty	HP	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Wt. (Lbs.)
PACT72D3-S2-Z	73200	208-240/1	75	34	73	1 1/4 FPT	60	2	4	25.0	132.0	2	3.3	70	1100.00
PACT72D3-T3-Z	73200	208-240/3	75	34	73	1 1/4 FPT	60	2	4	15.0	115.0	2	3.3	50	1100.00
PACT72D3-T4-Z	73200	460/3	75	34	73	1 1/4 FPT	60	2	4	7.4	48.0	2	1.6	25	1100.00
PACT96D3-S2-Z	96000	208-240/1	75	34	73	1 1/4 FPT	90	2	5	30.1	175.0	2	3.3	90	1200.00
PACT96D3-T3-Z	96000	208-240/3	75	34	73	1 1/4 FPT	90	2	5	20.7	115.0	2	3.3	70	1200.00
PACT96D3-T4-Z	96000	460/3	75	34	73	1 1/4 FPT	90	2	5	8.9	63.0	2	1.6	30	1200.00
PACT100D3-S2-Z	102000	208-240/1	75	34	73	1 1/4 FPT	90	2	5	27.9	129.0	2	3.3	80	1250.00
PACT120D3-T3-Z	108000	208-240/3	75	34	73	1 1/4 FPT	90	2	6	20.7	156.0	2	3.3	70	1250.00
PACT120D3-T4-Z	108000	460/3	75	34	73	1 1/4 FPT	90	2	6	11.5	70.0	2	1.6	35	1250.00
PACT140D3-T3-Z	147000	208-240/3	85	40	73	1 1/2 FPT	90	2	8	32.1	195.0	2	3.3	90	1300.00
PACT140D3-T4-Z	147000	460/3	85	40	73	1 1/2 FPT	90	2	8	16.4	95.0	2	1.6	45	1300.00
PACT160D3-T3-Z	167000	208-240/3	85	40	73	1 1/2 FPT	35	2	9	33.6	225.0	2	3.3	100	1400.00
PACT160D3-T4-Z	167000	460/3	85	40	73	1 1/2 FPT	35	2	9	17.3	114.0	2	1.6	45	1400.00
PACT180D3-T3-Z	190800	208-240/3	85	40	73	1 1/2 FPT	35	2	10	41.4	239.0	2	3.3	110	1450.00
PACT180D3-T4-Z	190800	460/3	85	40	73	1 1/2 FPT	35	2	10	19.2	125.0	2	1.6	50	1450.00



PACKAGED AIR COOLED CHILLER



PAC150S3-T3-S

SEMI-HERMETIC COMPRESSOR, SINGLE CIRCUIT, R407C R404A

			Dimensions (In.)				Compres-sor					Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Pro-cess (In.)	Qty	HP	Compressor	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC150S3-T3-S	148800	208-240/3	145	44	54.5	2 MPT	1	15	3DS3R17ME	59.6	275.0	2	2.3	80	125	1600.00
PAC150S3-T4-S	148800	460/3	145	44	54.5	2 MPT	1	15	3DS3R17ME	29.0	138.0	2	1.2	40	60	1600.00
PAC200S3-T3-S	171600	208-240/3	145	44	54.5	2 MPT	1	20	4DA3R18ME	66.0	308.0	2	2.3	90	150	1700.00
PAC200S3-T4-S	171600	460/3	145	44	54.5	2 MPT	1	20	4DA3R18ME	33.0	154.0	2	1.2	45	80	1700.00
PAC220S3-T3-S	195600	208-240/3	145	44	54.5	2 MPT	1	22	4DB3R20ME	65.6	374.0	2	2.3	90	150	1700.00
PAC220S3-T4-S	195600	460/3	145	44	54.5	2 MPT	1	22	4DB3R20ME	32.8	187.0	2	1.2	45	70	1700.00
PAC250S3-T3-S	223200	208-240/3	183	44	54.5	2 MPT	1	25	4DH3R22ME	82.2	428.0	3	2.3	110	175	1900.00
PAC250S3-T4-S	223200	460/3	183	44	54.5	2 MPT	1	25	4DH3R22ME	41.1	214.0	3	1.2	60	90	1900.00
PAC301S3-T3-S	309600	208-240/3	183	44	54.5	2 1/2 MPT	1	30	6DB3R32ME	105.0	565.0	3	2.3	150	225	2050.00
PAC301S3-T4-S	309600	460/3	183	44	54.5	2 1/2 MPT	1	30	6DB3R32ME	52.5	283.0	3	1.2	70	110	2050.00
PAC351S3-T3-S	321600	208-240/3	143	44	54.5	2 1/2 MPT	1	35	6B4709PH	125.0	550.0	4	2.3	175	250	2400.00
PAC351S3-T4-S	321600	460/3	143	44	54.5	2 1/2 MPT	1	35	6B4709PH	62.5	275.0	4	1.2	80	125	2400.00
PAC400S3-T3-S	352000	208-240/3	143	84	54.5	2 1/2 MPT	1	40	6B5406PH	142.0	700.0	4	2.3	225	350	2900.00
PAC400S3-T4-S	352000	460/3	143	84	54.5	2 1/2 MPT	1	40	6B5406PH	71.0	350.0	4	1.2	110	175	2900.00
PAC500S3-T3-S	441600	208-240/3	183	84	54.5	3 MPT	1	50	6B6462PH	180.0	950.0	6	2.3	200	350	3100.00
PAC500S3-T4-S	441600	460/3	183	84	54.5	3 MPT	1	50	6B6462PH	90.0	425.0	6	1.2	100	175	3100.00
PAC600S3-T3-S	540000	208-240/3	183	84	54.5	3 MPT	1	60	8DS3R67ME	224.0	70.0	6	2.3	300	500	4900.00
PAC600S3-T4-S	540000	460/3	183	84	54.5	3 MPT	1	60	8DS3R67ME	112.0	535.0	6	1.2	150	250	4900.00



PAC150D3-T3-S

SEMI-HERMETIC COMPRESSOR, DUAL CIRCUIT, R407C R404A

			Dimensions (In.)				Compressor					Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Pro-cess (In.)	Qty	HP	Compressor	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC150D3-T3-S	188400	208-240/3	145	44	54.5	2 1/2 MPT	2	7.5	3DA3R10ME	41.0	215.0	2	2.3	100	125	1800.00
PAC150D3-T4-S	188400	460/3	145	44	54.5	2 1/2 MPT	2	7.5	3DA3R10ME	20.0	106.0	2	1.2	50	60	1800.00
PAC200D3-T3-S	222000	208-240/3	145	44	54.5	2 1/2 MPT	2	10	3DB3R12ME	43.6	215.0	2	2.3	110	125	2100.00
PAC200D3-T4-S	222000	460/3	145	44	54.5	2 1/2 MPT	2	10	3DB3R12ME	20.0	106.0	2	1.2	50	60	2100.00
PAC240D3-T3-S	265200	208-240/3	183	44	54.5	2 1/2 MPT	2	12	3DF3R15ME	48.1	275.0	3	2.3	125	150	2250.00
PAC240D3-T4-S	265200	460/3	183	44	54.5	2 1/2 MPT	2	12	3DF3R15ME	23.6	138.0	3	1.2	60	80	2250.00
PAC300D3-T3-S	300000	208-240/3	183	44	54.5	2 1/2 MPT	2	15	3DS3R17ME	59.6	275.0	3	2.3	150	200	2600.00
PAC300D3-T4-S	300000	460/3	183	44	54.5	2 1/2 MPT	2	15	3DS3R17ME	29.0	138.0	3	1.2	70	90	2600.00
PAC400D3-T3-S	339600	208-240/3	143	84	54.5	2 1/2 MPT	2	20	4DA3R18ME	66.6	308.0	4	2.3	175	225	3100.00
PAC400D3-T4-S	339600	460/3	143	84	54.5	2 1/2 MPT	2	20	4DA3R18ME	33.3	154.0	4	1.2	80	110	3100.00

Continued on next page

			Dimensions (In.)				Compressor					Fan Motor				
Part No.	Nominal Cap. (BTUH)	Voltage	L	W	H	Fluid Process (In.)	Qty	HP	Compressor	RLA Ea.	LRA Ea.	Qty	FLA Ea.	MCA	Max. Fuse	Wt. (Lbs.)
PAC440D3-T3-S	392400	208-240/3	143	84	54.5	3 MPT	2	22	4DB3R20ME	65.6	374.0	4	2.3	175	200	2900.00
PAC440D3-T4-S	392400	460/3	143	84	54.5	3 MPT	2	22	4DB3R20ME	32.8	187.0	4	1.2	80	110	2900.00
PAC500D3-T3-S	446400	208-240/3	183	84	54.5	3 MPT	2	25	4DH3R22ME	82.1	428.0	6	2.3	200	250	2900.00
PAC500D3-T4-S	446400	460/3	183	84	54.5	3 MPT	2	25	4DH3R22ME	41.1	214.0	6	1.2	100	125	2900.00
PAC601D3-T3-S	627600	208-240/3	183	84	54.5	3 MPT	2	30	6DB3R32ME	105.0	565.0	6	2.3	250	350	5500.00
PAC601D3-T4-S	627600	460/3	183	84	54.5	3 MPT	2	30	6DB3R32ME	52.5	283.0	6	1.2	150	175	5500.00
PAC701D3-T3-S	650400	208-240/3	183	84	54.5	4 Flng	2	35	6B4709PH	117.0	550.0	8	2.3	300	400	5700.00
PAC701D3-T4-S	650400	460/3	183	84	54.5	4 Flng	2	35	6B4709PH	58.6	275.0	8	1.2	150	200	5700.00
PAC800D3-T3-S	720000	208-240/3	223	84	56.5	4 Flng	2	40	6B5406PH	157.1	700.0	8	2.3	400	500	5800.00
PAC800D3-T4-S	720000	460/3	223	84	56.5	4 Flng	2	40	6B5406PH	78.6	350.0	8	1.2	175	250	5800.00
PAC1000D3-T3-S	879600	208-240/3	228	89	56.5	4 Flng	2	50	6B6462PH	160.0	950.0	6	6.6	400	550	6400.00
PAC1000D3-T4-S	879600	460/3	228	89	56.5	4 Flng	2	50	6B6462PH	80.0	425.0	6	3.1	200	250	6400.00
PAC1200D3-T3-S	1060000	208-240/3	283	89	56.5	5 Flng	2	60	8DS3R67ME	224.3	70.0	8	6.6	600	700	6500.00
PAC1200D3-T4-S	1060000	460/3	283	89	56.5	5 Flng	2	60	8DS3R67ME	112.1	535.0	8	3.1	300	350	6500.00
PAC1400D3-T3-S	1295000	208-240/3	338	89	56.5	5 Flng	2	70	8C9400PH	228.6	288.0	10	6.6	600	800	8500.00
PAC1400D3-T4-S	1295000	460/3	338	89	56.5	5 Flng	2	70	8C9400PH	114.3	590.0	10	3.1	300	400	8500.00

SHELL AND TUBE CHILLER



DX51

DX CHILLER BARREL

The construction utilizes enhanced copper tubing for increased surface area and better heat transfer, without increasing the overall size. In addition, baffles are placed within our chillers to direct the water flow for maximum cooling effect. Externally, the entire chiller is wrapped in 3/4" insulation for maximum temperature retention after being powder coated for enhanced corrosion resistance.

Westermeyer Industries Inc.

			Dimensions (In.)	Connections (In.)		Working Pressure (psi)		
Part No.	Nominal HP	Nb. of Circuits	L	Inlet	Outlet	Shell	Tube	Ship Wgt (Lbs.)
DX51	6.1	1	41.00	5/8	1 1/8	600	300	64.00
DX61	8.5	1	41.00	5/8	1 1/8	600	300	64.00
DX7.51	9.8	1	41.00	7/8	1 5/8	600	300	66.00
DX101	12.1	1	42.5	7/8	1 5/8	600	300	70.00
DX121	15.9	1	41.75	7/8	1 5/8	450	250	120.00
DX122	15.9	2	41.75	5/8	1 1/8	450	250	120.00
DX151	20	1	41.75	7/8	2 1/8	450	250	128.00
DX152	20	2	41.75	7/8	1 5/8	450	250	128.00
DX201	24.1	1	41.75	1 1/8	2 1/8	450	250	136.00
DX202	24.1	2	41.75	7/8	1 5/8	450	250	136.00
DX251	27.1	1	41.75	1 1/8	2 5/8	450	250	142.00
DX252	27.1	2	41.75	7/8	1 5/8	450	250	142.00
DX301	32.5	1	81.75	1 1/8	2 5/8	150	300	414.00
DX302	32.5	2	81.75	7/8	1 5/8	150	300	404.00
DX401	42.9	1	81.75	1 3/8	2 5/8	150	300	563.00
DX402	42.9	2	81.75	1 1/8	2 1/8	150	300	556.00
DX501	53.9	1	81.75	1 3/8	3 1/8	150	300	594.00
DX502	53.9	2	81.75	1 1/8	2 1/8	150	300	581.00
DX601	64.5	1	93.75	1 5/8	3 1/8	150	300	642.00
DX602	64.5	2	93.75	1 1/8	2 5/8	150	300	634.00
DX1002	125	2	94.88	1 3/8	3 1/8	150	225	1070.00
DX1202	136.5	2	94.88	1 3/8	3 1/8	150	225	1080.00
DX1502	172.9	2	94.88	1 3/8	3 1/8	150	225	1600.00
DX1752	198.1	2	96.63	1 3/8	2 5/8	150	225	1700.00

BRAZED PLATE HEAT EXCHANGER

The Alfa Laval brazed plate heat exchangers consist of thin corrugated stainless steel plates vacuum brazed together using copper as the brazing material.

- Four frame sizes optimized for use with R410A. Suitable for R22 and most common refrigerants.
- Compact, durable designs with consistently high quality; ease of installation.
- Extensive range of BHE models providing cooling capacities from 0.5 to 600 kW.
- Equalancer system provides a substantial saving in heat transfer surface compared to BHEs with traditional distribution system.
- Rapid response to temperature changes due to small hold-up volume and lower refrigerant charge.
- Optimized design for every duty with customized BHE configuration to customer's own specifications.
- All widely recognized pressure vessel codes available as standard.
- Every BHE is pressure and leak tested before delivery, ensuring top quality products.
- Working pressure: 650 psig



ACH30EQ40H

3.7" X 12.8"

		Dimensions (In.)			Connection IDS (In.)				
Part No.	Nominal Tons	W	H	L	Inlet	Outlet	Water Outlet	Water Inlet	Ship Wgt (Lbs.)
ACH30EQ40H	4 and 5	3.70	2.70	12.80	1/2	7/8	7/8	7/8	10.20
ACH30EQ50H	5 and 6	3.70	3.30	12.80	5/8	1 1/8	1 1/8	1 1/8	12.20
ACH30EQ60H	6 and 7 1/2	3.70	3.90	12.80	5/8	1 1/8	1 1/8	1 1/8	14.20



CH1/2A

5" X 12"

GEA FlatPlate Inc.

		Dimensions (In.)			Connection IDS (In.)				
Part No.	Nominal Tons	W	H	L	Inlet	Outlet	Water Outlet	Water Inlet	Ship Wgt (Lbs.)
CH1/2A	1/2	4.90	1.10	12.20	5/8	5/8	7/8	7/8	5.80
CH3/4A	3/4	4.90	1.30	12.20	5/8	5/8	7/8	7/8	6.40
CH1-1/2A	1 1/2	4.90	1.90	12.20	5/8	5/8	7/8	7/8	8.30
CH2A	2	4.90	2.20	12.20	5/8	5/8	7/8	7/8	9.60
CH3A	3	4.90	3.20	12.20	5/8	5/8	7/8	7/8	12.70
CH3-1/2A	3 1/2	4.90	3.70	12.20	5/8	7/8	7/8	7/8	14.60



National Refrigerants, Inc.

NATIONAL REFRIGERATION PRODUCTS

Nu-Calgon

Refrigerants	Page
• Hydrocarbons	310
• HFO Refrigerants	310-311
• HFC/HFO Refrigerants	311
• HFC Refrigerants	312-314
• HCFC Refrigerants	314-316
• CFC Refrigerants	316
• Analytical Testing Service	316-317
• Labels, Accessories	317

Lubricants	Page
• Oil	318-320
• Spray Lubricant	321
• Grease	322
• Compressor Lubrication	322
• Contamination Analysis	322

HYDROCARBONS



014R290

R-290 (PROPANE)

R-290:

Propane (a hydrocarbon) used as the primary refrigerant in small, stand alone refrigeration appliances such as drink machines and display coolers. Propane is flammable and therefore is only allowed to be used in new equipment that has been specially designed to reduce the risk of fire. In applications for which it is approved, charge size is limited. Follow all OEM guidelines for safe charging, and service practices.

National Refrigerants, Inc.

Part No.	Description	Container Size (Lbs.)
014R290	Propane	14 Oz Cylinder



3R170

HYDROCARBONS

The low stage of a cascade system typically operates below -80°F. At these temperatures, standard refrigeration oils may begin to gum-up and lose their ability to flow around the sytem. Systems that run short periods of time, or cycle through warmer temperatures, may be able to keep the oil returning to the compressor; however, systems that run longer stretches of time at cold temperatures need to add hydrocarbons to thin the oil and provide consistent oil return. In some cases, the hydrocarbons are used as the low stage refrigerant.

National provides a variety of hydrocarbons in small quantities to be used for addition to very low temperature systems. Larger quantities can be specially ordered.

National Refrigerants, Inc.

Part No.	Description	Container Size (Lbs.)
3R170	R-170 (Ethane)	3 Lbs. Cylinder
004R170	R-170 (Ethane)	4 Oz. Cylinder
016R600	R-600 (n-Butane)	16 Oz. Cylinder
014r600a	R-600a (iso-Butane)	14.8 Oz Aerosol
016R600A	R-600a (iso-Butane)	16 Oz. Cylinder
004R1150	R-1150 (Ethylene)	4 Oz. Cylinder
016RPENTANE	Pentane, Liquid	16 Oz

HFO REFRIGERANTS

R-1234YF

R-1234yf

belongs to a new family of HFOs (hydro-fluoro-olefins) that have a low GWP. R-1234yf is intended for automotive air conditioning systems, some other R-134a applications, and it is a component in some HFC blends to help lower the overall GWP. This product is mildly flammable, but has been deemed safe by itself in new automotive systems. It should not be used to retrofit existing R-134a equipment.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
10R1234YF	10 Lb Cylinder
008R1234YF	8 Oz.


10R1234ZE

R-1234ZE

R-1234ze

belongs to a new family of HFOs (hydro-fluoro-olefins) that have a low GWP. R-1234ze can be used in air conditiong chillers, heat pumps, and some other R-134a applications. It is also included as a component in some HFC blends to help lower the overall GWP. This product is mildly flammable and it should not be used to retrofit existing R-134a equipment.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
10R1234ZE	10 Lb Cylinder
110R1234ZE	110 Lb Cylinder


10R1233ZD

R-1233ZD

R-1233zd belongs to a new family of HFOs (hydro-fluoro-olefins) that have low GWP. R-1233zd is used in low pressure centrifugal chillers for large air conditioning installations. This product is non-flammable and should be used only in new equipment (does not match properties of R-11 or R-123).

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
10R1233ZD	10 Lb Cylinder
100R1233ZD	100 Lb Cylinder



25R450A

R-450A

R450A

Application: Medium and low temp refrigeration applications, appliances. Retrofitting R-12 or blends used to previously retrofit R-12 systems

Performance: Similar capacity and efficiency to R-12. Higher pressures, similar to R-401A and R-409A

Lubricant: R-450A requires polyolester (POE) lubricant. Follow manufacturer's recommendations for changing mineral oil to POE

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R450A	25 Lb Cylinder



30R513A

R-513A

R513A

Application: Medium temperature refrigeration, AC chillers, heat pumps

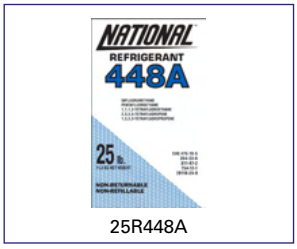
POE lubricant, same as R134a

R513A has a slightly higher capacity compared to R134a. It should be a close match to the HCFC based R12 retrofit blends. System pressures will be slightly higher than R134a. There is no temperature glide to compensate for, but the different pressure/temperature relationship may require resetting of pressure-based controls.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R513A	30 Lb Cylinder
125R513A	125 Lb Cylinder
1000R513A	1000 Lb Cylinder

HFC/HFO REFRIGERANTS



25R448A

R-448A

R-448A: This blend combines HFC and HFO components that produces a lower GWP than traditional HFC products. R-448A is intended for use in low and medium temperature refrigeration systems to replace R-404A or R-507. It can also be used to retrofit R-22 systems.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R448A	25 Lb Cylinder
100R448A	100 Lb Cylinder
850R448A	800 Lb Cylinder



25R449A

R-449A

R-449A: This blend combines HFC and HFO components that produces a lower GWP than traditional HFC products. R-448A is intended for use in low and medium temperature refrigeration systems to replace R-404A or R-507. It can also be used to retrofit R-22 systems.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R449A	25 Lb Cylinder
110R449A	110 Lb Cylinder
900R449A	900 Lb Cylinder

R-452A

R-452A: This blend combines HFC and HFO components that results in a lower GWP than other HFC products. R-452A can be used in certain low and medium temperature refrigeration and transport refrigeration systems to replace R-404A or R-507. Refer to EPAs SNAP website for approved uses of R-452A.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R452A	25 Lb Cylinder
100R452A	100 Lb Cylinder

HFC REFRIGERANTS



30R134A

R-134A

This HFC refrigerant has been the standard OEM choice for household appliances, small self-contained refrigeration units, very large chillers, and automotive air conditioning. It is also being used as the heat transfer fluid in secondary loop systems. R-134a is a component in many refrigerant blends on the market, including the new lower GWP blends. Application Temperature Range: R-134a performance suffers at lower evaporator temperatures. In general it is not applied at temperatures below -10°F, and it is not necessarily the most economical overall choice in some other applications. Traditional R-12 type applications have adopted several products as alternatives, including R-134a, R-22, R-404A/R-507, and numerous retrofit blends. Lubrication: R-134a requires polyolester (POE) lubricants, primarily for their ability to mix with HFC refrigerants. Traditional mineral oils and alkylbenzene do not mix with HFCs and will cause compressor failures. In addition, automotive air conditioning systems may also use polyalkylene glycol (PAG) lubricants (not typically seen in stationary equipment). Both POEs and PAGs will absorb moisture, and hold onto it, to a much greater extent than traditional lubricants. The moisture will promote reactions in the lubricant as well as the usual problems associated with water (corrosion, acid formation, etc.). The best way to dry a wet HFC system is to use a filter drier - run the system and change the drier - instead of relying on evacuation to clear the water.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R134A[1]	30 Lb Cylinder
125R134A[2]	125 Lb Cylinder
1000R134A[2]	1000 Lb Cylinder
1750R134A[2]	1750 Lb Cylinder

[1] stationary cylinder [2] returnable cylinder


5R23

R-23

R-23: Used in very low temperature refrigeration systems, typically on the low stage of a multi-stage system. Has properties similar to R-13 and can be used to replace R-13 in an existing system. R-23 has higher discharge temperatures than R-13, however, and equipment which is not designed to take this into account may suffer related failures. Polyolester (POE) lubricants should be used, and it may still be necessary to charge hydrocarbon oil additives to ensure proper oil return. Check with OEM for specific oil and charging recommendations.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
5R23	5 Lb Cylinder
9R23	9 Lb Cylinder
20R23	20 Lb Cylinder
70R23	70 Lb Cylinder



24R404A

R-404A

R-404A: Used in low and medium temperature refrigeration. This blend has been the standard OEM choice for commercial and industrial low temperature refrigeration. Recent SNAP regulations impose use restrictions in certain applications. Check EPA's website for SNAP approvals and restrictions for this refrigerant in specific applications. POE lubricant is required.

National Refrigerants, Inc.

Part No.	Description	Container Size (Lbs.)
24R404A	R404A refrigerant, HFC, 24 lb. cylinder	24 Lb Cylinder
100R404A[1]	R404A refrigerant, HFC, 100 lb. returnable cylinder	100 Lb Cylinder
800R404A[1]	R404A refrigerant, HFC, 100 lb. returnable cylinder	800 Lb Cylinder
1300R404A[1]	R404A refrigerant, HFC, 1,300 lb. returnable cylinder	1300 Lb Cylinder
24R404ANRI	RECLAIMED R-404A 24LB CYLINDER	24 Lb Cylinder

[1] returnable cylinder



25R407A

R-407A

R-407A: Has properties very similar to R-22 in refrigeration equipment. It has become a popular choice in the supermarket and refrigeration markets for retrofitting as well as new installations. Operating pressure/temperature in the evaporator, run-time capacity, and flow characteristics through tubing and valves make this blend the closest property match to R-22 at lower evaporator temperatures.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R407A	25 Lb Cylinder
100R407A	100 Lb Cylinder
925R407A	925 Lb Cylinder



25R407C

R-407C

R-407C: Has properties very similar to R-22 in air conditioning equipment and in medium temperature refrigeration. Operating pressure/temperature in the evaporator, run-time capacity, and flow characteristics through tubing and valves make this blend the closest property match to R-22 for retrofitting at AC conditions.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R407C	25 Lb Cylinder
115R407C[1]	115 Lb Cylinder
925R407C[1]	925 Lb Cylinder

[1] returnable cylinder



25R410A

R-410A

R-410A: Used in new air conditioning and heat pump equipment. The components nearly form an azeotrope, which means it has extremely low temperature glide and almost no fractionation potential. This blend has about 60% higher pressure than R-22 in air conditioning applications, and therefore is only allowed to be used only in new equipment specifically designed to handle the pressure. Systems designed for R-410A will have smaller components (heat exchangers, compressor, etc.) to perform the same cooling job compared to R-22. POE lubricant is required.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R410A	25 Lb Cylinder
100R410A[1]	100 Lb Cylinder
850R410A	850 Lb Cylinder

[1] returnable cylinder



25R417C

R-417C

An HFC-based retrofit blend for R-12 and all HCFC retrofit blends intended for R-12 applications (for example, R-414B). This second-generation blend contains a hydrocarbon additive and therefore can be used with existing mineral oil or alkylbenzene.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R417C	25 Lb Cylinder



25R422B

R-422B

R-422B: A retrofit blend that is designed to match R-22 in air conditioning applications. There is a slight reduction in capacity which would result in slightly longer run times. Systems that were previously retrofitted to R-417A can operate with a replacement charge of R-422B. The hydrocarbon component in R-422B helps promote oil return in systems containing mineral oil or alkylbenzene. Although HFC refrigerants won't mix with these oils, the hydrocarbon component thins the mineral oil and keeps it moving around the loop. More complicated piping arrangements or large hold-up volumes may require the addition of POE.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R422B	25 Lb Cylinder
110R422B	110 Lb Cylinder
25R422BNRI	25 Lb Cylinder



25R422D

R-422D

R-422D: A retrofit blend that is designed to match R-22 in refrigeration applications. There is a reduction in capacity which would result in longer run times. There may also be excessive pressure drop in long piping runs which may limit capacity further. The hydrocarbon component in R-422D helps promote oil return in systems containing mineral oil or alkylbenzene. Although HFC refrigerants won't mix with these oils, the hydrocarbon component thins the oil and keeps it moving around the loop. More complicated piping arrangements or large hold-up volumes may require the component of POE.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R422D	25 Lb Cylinder
110R422D	110 Lb Cylinder
25R422DNRI	25 Lb Cylinder

HFC REFRIGERANTS



25R507

R-507

R-507: Used in low and medium temperature refrigeration, it can be used in any system specified to use R-404A. R-507 was accepted by OEMs as an alternative choice to R-404A for commercial and industrial low temperature refrigeration. Recent SNAP regulations impose use restrictions in certain applications. Check EPA's website for SNAP approvals and restrictions for this refrigerant in specific applications. POE lubricant is required.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
25R507	25 Lb Cylinder
100R507[1]	100 Lb Cylinder
800R507[1]	800 Lb Cylinder
1400R507[1]	1400 Lb Cylinder
25R507NRI	25 Lb Cylinder

[1] returnable cylinder


5R508B

R-508B

R-508B:

Used in very-low-temperature refrigeration systems, typically the low stage of a multi-stage system. R-508B has properties similar to R-503 and can be used to replace either R-13 or R-503 in an existing system. The discharge temperature does not increase significantly compared to R-23. POE lubricants should be used, and it may still be necessary to charge hydrocarbon oil additives to ensure proper oil return. Check with OEM for specific oil and charging recommendations.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
5R508B	5 Lb Cylinder
10R508B[1]	10 Lb Cylinder
20R508B[1]	20 Lb Cylinder
70R508B[1]	70 Lb Cylinder

[1] returnable cylinder

HCFC REFRIGERANTS



100R123

R-123

R-123: Developed to replace R-11 in low pressure centrifugal chillers. New R-123 equipment has been engineered with the correct materials of construction and sized properly for the intended application. Retrofitting existing R-11 chillers to R-123 may require replacement of seals, gaskets, and other system components to obtain the correct operation conditions and prevent leaks.

The ASHRAE safety rating for R-123 is B1, which indicates that lower levels for personal exposure are allowed in normal daily operation and service conditions. Extra precautions and machinery room requirements must be observed (specific requirements are spelled out in ASHRAE Standard 15, Safety Code for Mechanical Refrigeration).

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
100R123	100 Lb Drum
200R123	200 Lb Drum
650R123	650 Lb Drum



30R124

R-124

R-124: Used in refrigeration blends, primarily those used for R-12 type applications. Also used by itself to replace R-114 in chillers or high ambient air conditioning applications, and for sterilant gas formulations.

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R124	30 Lb Drum
145R124[1]	145 Lb Cylinder

[1] returnable cylinder



30R22

R-22

R-22: The predominant refrigerant installed in residential and commercial air conditioning and some very large centrifugal chillers for air conditioning and industrial process cooling. It has also been installed more in refrigeration since the phaseout of CFCs, both as a pure refrigerant and in blends. R-22 can no longer be used in new equipment, but available product can be used to service existing systems.

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R22	30 Lb Cylinder
125R22[1]	125 Lb Cylinder
1000R22[1]	1000 Lb Cylinder
1750R22[1]	1750 Lb Cylinder

[1] returnable cylinder



30R401A

R-401A

R-401A: A retrofit blend for R-12 refrigeration systems. The pressure and system capacity match R-12 when the blend is running in a 10°F to 20°F evaporator, and there is typically an 8°F temperature glide in the evaporator. Applications: direct expansion refrigeration and air conditioning systems designed for R-12 or R-500; good success in any size system, minor adjustment of controls needed. Discharge pressure increases compared to R-12, also slight increase in discharge temperature, however the increases are not as severe as some other retrofit blends. There is a drop in capacity at lower temperatures. R-152a content, an HFC, hurts the miscibility with mineral oil. It is recommended to change some of the oil to alkylbenzene unless the system is small and running at higher evaporator temperatures.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R401A	30 Lb Cylinder
125R401A[1]	125 Lb Cylinder

[1] returnable cylinder



30R401B

R-401B

R-401B: Similar to R-401A except higher in R-22 content. This blend has higher capacity at lower temperatures (matches R-12 around -30°F), and also provides a closer match to R-500 at air conditioning temperatures.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R401B	30 Lb Cylinder



27R402A

R-402A

R-402A: This blend is formulated to match R-502 in medium to low temperature ranges and does not significantly increase discharge temperature in R-502 retrofit situations. Discharge pressure, however, can increase from 25 to 40 psi over pressures seen with R-502. Although propane was included to improve oil circulation it is still recommended that some mineral oil be removed and replaced with alkylbenzene or POE.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
27R402A	27 Lb Cylinder
110R402A[1]	110 Lb Cylinder

[1] returnable cylinder



24R408A

R-408A

R-408A: A retrofit blend for R-502 refrigeration systems. This blend has the closest pressure/temperature match to R-502 across the whole operating range of temperatures. Discharge temperature will increase; however in most applications this will not impact system performance or long term reliability. In severe duty applications, such as transport refrigeration into hot climates, this blend may not be recommended by the OEM.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
24R408A	24 Lb Cylinder
100R408A[1]	100 Lb Cylinder
24R408ANRI	24 Lb Cylinder

[1] returnable cylinder

HCFC REFRIGERANTS



30R409A

R-409A

R-409A: A retrofit blend for R-12 refrigeration systems. The pressure and system capacity match R-12 when the blend is running in a 10°F to 20°F evaporator, and there is typically 13°F temperature glide in the evaporator. Applications: direct expansion refrigeration and air conditioning systems designed for R-12 or R-500; good success in any size system, minor adjustment of controls needed. Discharge pressure and temperature increases compared to R-12, which may be a problem in very hot ambient conditions. Capacity holds well into lower application temperatures (-30°F). R-409A mixes well with mineral oil down to 0°F. As a result it may not be necessary to change oil in systems which do not run colder than 0°F in the evaporator (below 0°F alkylbenzene should replace some mineral oil).

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R409A	30 Lb Cylinder

CFC REFRIGERANTS

R-12

R-12: Before its production phaseout in 1995, it was used in a variety of applications from small hermetic refrigeration systems up through large, positive pressure chillers. It was long-time industry standard for automotive air conditioning, kitchen appliances, high/medium/low temperature refrigeration, and many other commercial and industrial applications. Limited quantities of reclaimed R-12 is still available for service of installed equipment.

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R12	30 Lb Cylinder



30R500

R-500

R-500: Designed to be a higher capacity R-12 type refrigerant, R-500 found some use in air conditioning and dehumidifier equipment and in positive pressure centrifugal chillers.

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R500	30 Lb Cylinder



30R502

R-502

R-502: Before its phaseout in 1995, it was used in low temperature refrigeration (the evaporator pressure stays out of vacuum down to -40°F). R-502 offered lower discharge temperature and improved capacity compared to R-22. Commercial refrigeration systems could perform low temperature refrigeration in a single stage with relatively inexpensive compressors.

An EPA certification card is required to purchase CFC and HCFC refrigerants.

National Refrigerants, Inc.

Part No.	Container Size (Lbs.)
30R502	30 Lb Cylinder
125R502[1]	125 Lb Cylinder

[1] returnable cylinder

ANALYTICAL TESTING SERVICE

REFRIGERANTS

- Refrigerant: Testing to ARI Standard 700 specifications.
- Refrigeration Oil: Testing oil quality as indication of system performance.
- Halon Testing: Testing to Military/ASTM/Government 1301/1211/1202 specifications.
- National Refrigerants, Inc. analytical testing service offers easy-to-use sample kits for: Refrigerant; Halon; Refrigeration Oil; Specialty Testing


NRIHPN

REFRIGERANTS

Testing liquid phase to AHRI 700 specifications for fluorocarbon refrigerants for one or more of the following:

- Identification (Infrared Spectroscopy)
- Moisture
- Acidity
- High Boiling Residue/Oil Content
- Particulates/Solids
- Purity (Gas Chromatography)
- Chloride

NRIHPN does not include prepaid shipping

National Refrigerants, Inc.

Part No.	Description
NRIHPN	High Pressure Refrigerant Analysis
NRILP	Low Pressure Refrigerant Analysis



NRIOA

LUBRICANTS

Testing of lubricant for one or more of the following:

- Identification (Infrared Spectroscopy)
- Moisture
- Appearance
- Acidity
- Viscosity
- Wear Metals
- Residual Mineral Oil (as requested)
- Fluoride, Chloride and Conductivity (as requested, extra cost)

National Refrigerants, Inc.

Part No.	Description
NRIOA	Oil Analysis



NRINCN

NON-CONDENSABLE GAS

Specifications for fluorocarbon refrigerants requires a vapor only sample taken from the source vapor phase.
NRINCN does not include prepaid shipping

National Refrigerants, Inc.

Part No.	Description
NRINCN[1]	Testing Vapor Phase to AHRI 700

[1] Not applicable to R11, R113 or R123

LABELS, ACCESSORIES



NL1

CERTIFICATE OF REMOVAL

Measures 3" x 4". To identify that the refrigerant has been properly removed from a cooling unit, for disposal, in accordance with the 1990 Clean Air Act amendment requirements.

NATIONAL REFRIGERATION PRODUCTS

Part No.	Pkg Qty
NL1	10



NL11

RECOVERED REFRIGERANT, LARGE

Meets DOT requirements for transporting refrigerants. All recovered refrigerant labels are designated with color code and shipping classification.

- Measures 5" x 10 1/2"

NATIONAL REFRIGERATION PRODUCTS

Part No.	Ref.	Pkg Qty
NL11	R11	5
NL12	R12	5
NL134A	R134A	5
NL22	R22	5
NL502	R502	5



NR11

RECOVERED REFRIGERANT, SMALL

- Measures 3" x 4"

NATIONAL REFRIGERATION PRODUCTS

Part No.	Ref.	Pkg Qty
NR11	R11	10
NR134A	R134A	10
NR22	R22	10
NR500	R500	10
NR502	R502	10



NRE23

EQUIPMENT CONTENTS IDENTIFICATION

- Measures 2" x 4"

NATIONAL REFRIGERATION PRODUCTS

Part No.	Ref.	Pkg Qty
NRE23	R23	5
NRE401B	R401B	5
NRE402B	R402B	5
NRE404A	R404A	5
NRE406A	R406A	5
NRE407A	R407A	5
NRE407B	R407B	5
NRE407C	R407C	5
NRE408A	R408A	5
NRE409A	R409A	5
NRE410A	R410A	5
NRE422B	R422B	5
NRE422D	R422D	5
NRE448A	R448A	5
NRE507	R507	5

OIL



05641002

VACUUM PUMP OIL, 330 ML

- For use with testo 565i 7CFM/198 l/min and10 CFM / 283 l/min Vacumum Pumps
- Highly refined for top performance
- Ensures proper sealing and lubrication
- Excellent vacuum sealing performance
- Suitable for wide temperature range

Part No.	Description	Container Size
05641002	Vacuum pump oil, 330 ml	110 Oz



1501G

MINERAL OIL

- Low wax content
- Chemically and thermally stable
- Low pour point
- Napthenic mineral oil

Part No.	Viscosity (SUS)	Container Size	Case Qty*
1501G	150 SUS	1 Gal	6
1505G	150 SUS	5 Gal	1
15055G	150 SUS	55 Gal	1
3001G	300 SUS	1 Gal	6
3005G	300 SUS	5 Gal	1
30055G	300 SUS	55 Gal	1
5001G	500 SUS	1 Gal	6
5005G	500 SUS	5 Gal	1
5055G	500 SUS	55 Gal	1



150AKB1G

ALKYLBENZENE OIL

High quality synthetic alkylbenzene refrigerant oil. Excellent miscibility and compatibility with all CFC and HCFC refrigerants.
AB200R is approved by Copeland for HCFC retrofit jobs.
The new AKB500E provides good miscibility with HCFC refrigerants and has the higher viscosity needed to work well with screw compressors.

Part No.	Viscosity (SUS)	Container Size	Case Qty*
150AKB1G	150 SUS	1 Gal	6
150AKB5G	150 SUS	5 Gal	1
150AKB55G	150 SUS	55 Gal	1
200AKB1G	200 SUS	1 Gal	6
200AKB5G	200 SUS	5 Gal	1
200AKB55G	200 SUS	55 Gal	1
300AKB1G	300 SUS	1 Gal	6
300AKB5G	300 SUS	5 Gal	1
300AKB55G	300 SUS	55 Gal	1
AKB500E1G	500 SUS	1 Gal	6
AKB500E5G	500 SUS	5 Gal	1
AKB500E55G	500 SUS	55 Gal	1



PE321P

POLYOL ESTER OIL

Designed specifically for HFC refrigerants but miscibile and compatible with all fluorocarbon refrigerants, mineral and alkylbenzene lubricants.
Packaged in metal containers.

		Viscosity	
Part No.	Container Size	at 100°F (SUS)	Case Qty*
PE321P	1 Pt	32 (150 SUS)	12
PE321Q	1 Qt	32 (150 SUS)	12
PE321G	1 Gal	32 (150 SUS)	6
PE325G	5 Gal	32 (150 SUS)	1
PE681P	1 Pt	68 (300 SUS)	12
PE681Q	1 Qt	68 (300 SUS)	12
PE681G	1 Gal	68 (300 SUS)	6
PE685G	5 Gal	68 (300 SUS)	1



SOLESTLT321G

POLYOL ESTER OIL, SOLEST

National Refrigerants is now supplying several Solest lubricants. The Solest products are high quality polyol ester synthetic lubricants designed for use with air conditioning and industrial refrigeration compressors. They extend the viscosity range of the current National line. They are excellent choices for initial fill, service and retrofit applications.

- Solest LT32: specifically designed for very low temperature applications. Good miscibility with R404A eliminating the need for 2 different lubricants in a cascade system.
- Solest 46: Used in centrifugal, reciprocating and rotary vane compressors.
- Solest 68: Used in a wide variety of compressor units.
- Solest 100: Mostly used in scroll and screw compressors.
- Solest 120: Provides good oil return in screw applications.
- Solest 150, 170, 180: Used mainly in Bitzer and Carlyle screw application.
- Solest 220: Mostly used in large screw type applications with R134a.
- CP4214-150, CP-4214-320: complex ester lubricants that cannot be used with HFC refrigerants. They provide good oil return in screw type applications with R22.
- Solest 370: Used mostly in screw type applications with HFC refrigerants

NL

		Viscosity		
Part No.	Container Size	at 100°F (SUS)	at 40°C (cSt)	ISO Grade
SOLESTLT321G	1 Gal	149	29.15	32
SOLESTLT325G	5 Gal	149	29.15	32
SOLESTLT3255G	55 Gal	149	29.15	32
SOLEST461G	1 Gal	261	50.5	46
SOLEST465G	5 Gal	261	50.5	46
SOLEST4655G	55 Gal	261	50.5	46
SOLEST681G	1 Gal	329	64	68
SOLEST685G	5 Gal	329	64	68
SOLEST6855G	55 Gal	329	64	68
SOLEST1001G*	1 Gal	500	-	100
SOLEST1005G	5 Gal	500	-	100
SOLEST1201G	1 Gal	683	131	120
SOLEST1205G	5 Gal	683	131	120
SOLEST12055G	55 Gal	683	131	120
SOLEST1701G	1 Gal	883	175.2	170
SOLEST1705G	5 Gal	883	175.2	170
SOLEST17055G	55 Gal	883	175.2	170
SOLEST1801G	1 Gal	850	175	180
SOLEST2201G	1 Gal	1034	215.9	220
SOLEST2205G	5 Gal	1034	215.9	220
SOLEST22055G	55 Gal	1034	215.9	220
CP4214-3201G	1 Gal.	1500	298	320
CP4214-3205G	5 Gal.	1500	298	320
CP4214-1505G	5 Gal.	750	168	150



WF32

MINERAL OIL

- Equivalent to Capella™ (Capella™ is a registered trademark of Chevron Corporation)
- Low wax haze and floc temperature
- Napthenic oil

NL

Part No.	Viscosity (SUS)	Container Size	Case Qty*
WF32	32, (150 SUS)	1 Gal	6
WF325	32, (150 SUS)	5 Gal	1
1TD	68, (300 SUS)	1 Gal	6
55TD	68, (300 SUS)	55 Gal	1
5TD	68, (300 SUS)	5 Gal	1

VACUUM PUMP OIL

A quality 200 SUS viscosity oil with a low vapor pressure and high lubricity.

Assures high vacuum pump performance.

NL

Part No.	Container Size	Case Qty*
VP01P	1 Pint	24
VP01Q	1 Quart	12
VP01G	1 Gallon	6
VP05G	5 Gallon	1

OIL



431346

POLYOL ESTER OIL

Designed specifically for use with HFC refrigerants, they have been developed to meet the performance demands of the refrigeration industry.
The lubricants have excellent thermal and chemical stability, and are compatible with a wide range of elastomers, polymeric materials and other materials of construction. They are fully miscible and compatible with mineral oils and alkylbenzene lubricants as well as with CFCs, HCFs and HFCs.

- Supplied in metal containers

Nu-Calgon

Part No.	Container Size	Viscosity at 100°F (SUS)	Viscosity at 40°C (cSt)	Description	Case Qty*
431346	1 Gal	100	18.9	ICI Emkarate RL22H	4
431445	5 Gal	150	33.7	ICI Emkarate RL32H	1
431546	1 Gal	200	46	ICI Emkarate RL46H	4
431646	1 Gal	300	72.3	ICI Emkarate RL68H	4
431645	5 Gal	300	72.3	ICI Emkarate RL68H	1
431826	1 Gal	850	170	ICI Emkarate RL170H	4
431691	1 Gal	425	84.1	ICI Emkarate RL85HB1	4
431466	1 Gal	150	31.2	ICI Emkarate RL32CF	4



998E02200

POLYOL ESTER OIL

COPELAND

Part No.	Container Size
998E02200*	1 Qt
998E02201*	1 Gal



431914

POLYVINYLETHER OIL

PVE or polyvinylether lubricants are finding increased application and use by compressor and equipment manufacturers. The list of OEM's that have tested and approved Idemitsu's PVE Lubricants is impressive. PVE lubricants exhibit excellent performance characteristics in air conditioning and refrigeration applications, and they are particularly well suited for use with HFC refrigerants such as R-134a, R-404, R-407C, and R-410A. In fact, PVE lubricants are compatible with all HFC refrigerants.
In addition to its solubility and miscibily characteristics, the PVE lubricant provides for increased stability and lubrication. In particular, PVE lubricants do not hydrolyze in the presence of moisture, a very important feature in HVAC/R applications. Additionally, they are compatible with other refrigeration oils and process fluids. PVE lubricants also exhibit compatibility and performance with frequently used anti-wear additives.

Nu-Calgon

Part No.	Container Size	ISO Grade
431914	1 Qt	32
431924	1 Qt	68



D01

OILER

- Zoom telescoping spout
- 12 containers per case
- 4 fluid oz. container

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Container Size
D01	Turbine Oiler	4 Fl Oz

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SPRAY LUBRICANT



CKS102

UTILITY BORESCOPE

Kroil penetrants have been trusted by industrial maintenance professionals for decades to loosen, remove, repair and replace rusted and frozen metal parts. Kroil Clear works quickly to penetrate and free rusted nuts, bolts, fasteners, shafts, pulleys, joints, linkages and more. It is odorless and non-staining, and perfect for planned and unplanned maintenance, as well as equipment disassembly.

- SAFE FOR USE ON FOOD & BEVERAGE EQUIPMENT
- ODORLESS & NON-STAINING
- NSF-H1 REGISTERED & KOSHER CERTIFIED

KANO

Part No.	Description	Container Size
CKS102	Kroil Clear	10 Oz Spray



61105

PENETRATE HD

Specially formulated with new low surface tension technology to seep into the smallest cracks, crevices, seams, or threads of rusted, seized, and corroded parts. Quickly dissolves the bonds of rust, corrosion, carbon deposits, gums, varnishes, and grease to free the metal parts. Penetrate HD displaces water and leaves a lubricating film to protect metal parts and further prevent rust and corrosion. Unique formula uses capillary action to penetrate into the smallest spaces.

- Super penetrating lubricant
- Loosens rusted and frozen metal parts
- Frees stuck fan blades, blower shafts, pulleys, rusted nuts and bolts, etc.
- Saves time and labor
- Lubricates and protects metals
- Dielectric strength to 40,000 volts

ClenAir by Nu-Calgon

Part No.	Description	Container Size
61105	Penetrate HD	12 Oz Can spray



490057

WD40

Known as "the can with a thousand uses," WD-40 protects metal from rust and corrosion, penetrates stuck parts, displaces moisture, and lubricates just about anything. WD-40 is also great when it comes to cleaning grease, grime, and other marks from most surfaces.

- Gets under dirt, grime and grease to clean. It also dissolves adhesives, allowing easy removal of labels, tape, stickers, and excess bonding material.
- Because WD-40 displaces moisture, it quickly dries out electrical systems to eliminate moisture-induced short circuits.
- Loosens rust-to-metal bonds and frees stuck, frozen or rusted metal parts.
- Lubricating ingredients are widely dispersed and hold firmly to all moving parts.
- Protects metal surfaces with corrosion-resistant ingredients to shield against moisture and other corrosive elements.

WD-40

Part No.	Description	Container Size
490057	WD40® Smart Straw, Low VOC	12 Oz spray can



12AP

AEROKROIL

Kroil's 10 oz. aerosol can of penetrating oil (formerly known as AeroKroil) helps protect and clean metal surfaces. Loosens frozen nuts and bolts, displaces water and prevents rust. Easy application makes even the toughest maintenance jobs easier, faster, and simpler.t.

KANO

Part No.	Description	Container Size
12AP	Kroil Penetrant Original (formerly known as AeroKroil), Penetrating Oil Aerosol, Multipurpose, Penetrant, KS102C	10 Oz Aerosol can

GREASE



RT910T

FOOD GRADE SILICONE GREASE

The lubricant of choice for use in food equipment, water fixtures and heat generating appliances. Use in places where petroleum oils are inadequate or not desirable. Silicones are compatible with most plastics, rubber, leather, composite fibers and all metals. Often recommended as a sealing lubricant on o-rings, valves, vacuum and pneumatic assemblies. Its high dielectric strength allows for the safe lubrication of electromechanical devices. Stable consistency with low volatility. Chemically resistant and waterproof.
Food Grade Silicone 95%, with antioxidant and corrosion inhibitors. NSF authorized for use in federally inspected meat and poultry plants. Rated H-1 for incidental food contact. A very inert non-toxic material having exceptional physical and thermal stability.

REFRIGERATION TECHNOLOGIES

Part No.	Container Size
RT910T	3 Oz tube

COMPRESSOR LUBRICATION


48140

CANVERTER®

A hand-held pump used to remove oil from and add oil to hermetic compressors. Packaged with appropriate tubing.

Nu-Calgon

Part No.	Description
48140*	Hand Oil Pump

CONTAMINATION ANALYSIS


RHB-82

OIL REFRACTOMETER

Used to determine percentage of mineral oil in a refrigeration system during POE changeover. A brix scale, a refractive index, or any list of markings can be used to determine mineral oil percentage.

ESP ENERGY SAVING PRODUCTS

Part No.	Description
RHB-82	Oil Refractometer



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov







MANITOWOC KOOLAIRE Servend Scotsman Bally PENTAIR EVERPURE Continental HUSSMANN BEVERAGE-AIR Traulsen KASON

Manitowoc **Page**
- Modular Cube Ice Machine 324-328
- Modular Nugget and Flake Ice Machine 329-330
- Self Contained Cube Ice Machine 331
- Self Contained Flake Ice Machine 331
- Self Contained Nugget Ice Machine 331
- Modular Cube and Flake Ice Machine 332-333
- Ice Dispenser 334
- Storage Bin 335
- Accessories 335-337

Koolaire
- Modular Cube Ice Machine 338-340
- Storage Bin 341
- Undercounter Ice Cube Machine 341

Servend
- Ice/Beverage Dispenser 342-343
- Countertop Ice Dispenser 343-344
- Beverage Dispenser 344
- Cup Dispensers, CD Series 344

Scotsman
- Modular Cube Ice Machine 345-349
- Self Contained Cube Ice Machine 350
- Self Contained Flake and Nugget Ice Machine 351
- Modular Flake Ice Machine 351
- Modular Nugget Ice Machine 352
- Ice Machine/Dispenser 352
- Ice Dispenser 352
- Storage Bin 353
- Accessories 354-355

Water Filtration and Treatment **Page**
- Pentair 356-363
- Costguard 363-364
- Nu-Calgon 364

Bally
- Replacement Parts 365

Curtains
- Strip Curtain 366

Hussmann
- Self-Contained Merchandisers 367-369

Parts & Accessories
- True Manufacturing 370
- Beverage-Air 370-371
- Traulsen 372
- Reach-In Edgemount Latch 373-374
- Reach-In Surface Mount Hinge 374-375
- Reach-In Edgemount Hinge 375-377
- Walk-In Heavy Duty Latch 377
- Safeguard Walk-In Latch & Strike 377-378
- Shelving Hardware 378-379
- Lighting Fixture 379
- Walk in Surface Mount Latch 380
- Walk-In Safety Release Handle 380-381
- Walk-In Heavy Duty Hinge 381-382
- Vent 383
- Walk-In Forged Brass Hinge 383
- Walk-In Cam Rise Hinge 384-385
- Walk-In Door Closer 386
- Walk-In Locking Pull Handle 387
- Walk-In Locking Lever Handle 387

MODULAR CUBE ICE MACHINE

INDIGO®NXT SERIES

Designed for operators who know that ice is critical to their business, the Indigo®NXT Series ice machine's preventative diagnostics continually monitors itself for reliable ice production. Improvements in cleanability and programmability make your ice machine easy to own and less expensive to operate.

- easyTouch® Display- New icon based touch screen takes the guess work out of owning and operating an ice machine.
- Programmable Ice Production – Now it's easy to program your ice machine to be off at certain times of the day to save money with fluctuating electrical rates. Also programmable by daily ice production volume.
- Easy to Clean Foodzone – Hinged front door swings out for easy access. Removable water-trough, distribution tube, curtain, and sensing probes for fast and efficient cleaning. Select components made with AlphaSan® anti-microbial.
- Intelligent Diagnostics – provide 24 hour preventative maintenance and diagnostic feedback for trouble free operation.
- Acoustical Ice Sensing Probe – Unique patented technology allows for reliable operation in challenging water conditions and environments.
- DuraTech™ Exterior – provides superior corrosion resistant above stainless steel. Innovative clear-coat resists fingerprints and dirt making it easier to keep clean.
- X suffix indicates LuminIce® II Growth Inhibitor is included (available for other models): controls the growth of bacteria and yeast with the food zone keep the machine cleaner longer. A new indicator in the display keeps you abreast of the operational status.



IDT0420A

IT0420 SERIES-22" WIDTH

- Head only, suggested bin D320, D420
- 115/1/60
- Overall dimension: 22"W x 24 1/2"D x 21 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT0420A*	Air	Dice	480	115	1	22.00
IYT0420A*	Air	Half Dice	480	115	1	22.00
IDT0420W*	Water	Dice	480	115	1	22.00
IYT0420W*	Water	Half Dice	480	115	1	22.00



IYT0620A261

IT0620 SERIES-22" WIDTH

- 115/1/60 (261 suffix: 208-230/1/60)
- Head only, suggested bin D400, D420
- Overall dimension: 22"W x 24 1/2"D x 21 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IYT0620A261*	Air	Half Dice	575	208-230	1	22.00
IDT0620W*	Water	Dice	575	115	1	22.00
IYT0620W*	Water	Half Dice	575	115	1	22.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



IDT0300W

IT0300 SERIES-30" WIDTH

- 115/1/60 (261 suffix: 208-230/1/60)
- Head only, suggested bin D400
- Overall dimension: 30"W x 24 1/2"D x 16 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT0300W*	Water	Dice	310	115	1	29.00



IDT0450W

IT0450 SERIES-30" WIDTH

- 115/1/60
- Head only, suggested bin D400, D570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT0450W*	Water	Dice	490	115	1	30.00
IYT0450W*	Water	Half Dice	490	115	1	30.00



IRT0500A

IT0500 SERIES-30" WIDTH

- 115/1/60 (261 suffix: 208-230/1/60)
- Head only, suggested bin D400, D570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IRT0500A*	Air	Regular	550	115	1	30.00
IYT0500A261*	Air	Half Dice	550	208-230	1	30.00
IYT0500W*	Water	Half Dice	550	115	1	30.00



IDF0500N

IF0500 SERIES-30" WIDTH

- 208-230/1/60
- Head only, suggested bin D400, D570
- Overall dimension: 30"W x 24"D x 21 1/2"H
- R404A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDF0500N*	Remote Air	Dice	445	208-230	1	29.00
IYF0500N*	Remote Air	Half Dice	465	208-230	1	29.00
IYF0500NX*[1]	Remote Air	Half Dice	465	208-230	1	29.00

1 Luminlce® II Growth Inhibitor Included

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE


IDT0750A

IT0750 SERIES-30" WIDTH

- 208-230/1/60
- Head only, suggested bin D400, D570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT0750A*	Air	Dice	1213	208-230	1	30.00
IYT0750A*	Air	Half Dice	1213	208-230	1	30.00
IYT0750AX*[1]	Air	Half Dice	1213	208-230	1	28.00
IYT0750W*	Water	Half Dice	1213	208-230	1	30.00

1 Luminlce® II Growth Inhibitor Included


IYF0900A3

IF0900 SERIES-30" WIDTH

- 208-230/1/60 (*3: 208-230/3/60)
- Head only, suggested bin D400, D570
- Overall dimension: 30"W x 24 1/2"D x 26 1/2"H
- R404A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IYF0900A3*	Air	Half Dice	830	208-230	3	30.00


IDT0900A

IT0900 SERIES-30" WIDTH

- 208-230/1/60 (*3: 208-230/3/60)
- Head only, suggested bin D570, D970
- Overall dimension: 30"W x 24 1/2"D x 26 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT0900A*	Air	Dice	695	208-230	1	29.00
IDT0900AX*[1]	Air	Dice	695	208-230	1	29.00
IYT0900A*	Air	Half Dice	750	208-230	1	29.00
IRT0900A*	Air	Regular	676	208-230	1	29.00
IDT0900W*	Water	Dice	665	208-230	1	30.00
IYT0900W*	Water	Half Dice	665	208-230	1	29.00

1 Luminlce® II Growth Inhibitor Included

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


IDT1200A

IT1200 SERIES-30" WIDTH

- 208-230/1/60 (*3: 208-230/3/60)
- Head only, suggested bin D570, D970
- Overall dimension: 30"W x 24 1/2"D x 29 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT1200A*	Air	Dice	1213	208-230	1	30.00
IYT1200A*	Air	Half Dice	1213	208-230	1	30.00
IYT1200A3*	Air	Half Dice	1213	208-230	3	30.00
IDT1200N*	Remote Air	Dice	1213	208-230	1	30.00
IYT1200N*	Remote Air	Half Dice	1213	208-230	1	30.00
IYT1200N3*	Remote Air	Half Dice	1213	208-230	3	30.00
IDT1200W*	Water	Dice	1213	208-230	1	30.00
IYT1200W*	Water	Half Dice	1213	208-230	1	30.00


IDT1500AP

IT1500 SERIES-48" WIDTH

- 208-230/1/60 (*3: 208-230/3/60)
- Head only, suggested bin D970
- Overall dimension: 48"W x 24 1/2"D x 29 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IDT1500AP*[1]	Air	Dice	1660	208-230	1	29.00
IDT1500A*	Air	Dice	1660	208-230	1	48.00
IDT1500A3*	Air	Dice	1660	208-230	3	29.00
IYT1500A*	Air	Half Dice	1660	208-230	1	48.00
IYT1500A3*	Air	Half Dice	1660	208-230	3	48.00
IDT1500N*	Remote Air	Dice	1660	208-230	1	48.00
IYT1500N*	Remote Air	Half Dice	1660	208-230	1	48.00
IYT1500NX*[2]	Remote Air	Half Dice	1660	208-230	1	48.00
IYT1500N3*	Remote Air	Half Dice	1660	208-230	3	48.00
IDT1500W*	Water	Dice	1660	208-230	1	48.00
IYT1500W*	Water	Half Dice	1660	208-230	1	48.00

1 Prison 2 Luminlce® II Growth Inhibitor Included

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE



IRT1900A

IT1900 SERIES-48" WIDTH

- 208-230/1/60 (*3: 208-230/3/60)
- Head only, suggested bin D970
- Overall dimension: 48"W x 24 1/2"D x 29 1/2"H
- R410A Refrigerant
- Not stackable

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
IRT1900A*	Air	Regular	1965	208-230	1	48.00
IDT1900A3*	Air	Dice	1965	208-230	3	48.00
IYT1900A*	Air	Half Dice	1965	208-230	1	48.00
IYT1900A3*	Air	Half Dice	1965	208-230	3	48.00
IRT1900N*	Remote Air	Regular	1965	208-230	1	29.00
IDT1900N*	Remote Air	Dice	1965	208-230	1	48.00
IDT1900N3*	Remote Air	Dice	1965	208-230	3	48.00
IYT1900N*	Remote Air	Half Dice	1965	208-230	1	48.00
IYT1900N3*	Remote Air	Half Dice	1965	208-230	3	48.00
IDT1900W*	Water	Dice	1965	208-230	1	48.00
IDT1900W3*	Water	Dice	1965	208-230	3	29.00
IYT1900W*	Water	Half Dice	1965	208-230	1	48.00
IYT1900W3*	Water	Half Dice	1965	208-230	3	48.00



K00129

COUPLING KIT

Remote coupling stub kit for use with non-Manitowoc tubing

Part No.	Description
K00129	Coupling Kit

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR NUGGET AND FLAKE ICE MACHINE

FLAKE ICE MACHINES

Flake ice is small hard bits of ice ideally suited for any "contact" presentation. It forms completely around the contact item without bruising and cools quickly.

- High load maintenance free bearing for enhanced reliability.
- Service updates facilitate installation and make cleaning easier.
- Flake ice is perfect for food display, salad bar, and cold therapy/ healthcare
- Ice form around object without bruising and hold object in place without tipping/spilling
- Heavy duty stainless steel cabinet resists corrosion



RFP0320A

FLAKE, RFF0320 & RFP0620 SERIES

- Voltage: 115/1/60
- Overall dimension: 22"W x 23.6"D x 26"H
- Head only, suggested bin D320 or D420
- Now in standard measurements for perfect pairing with 22" ice bins. No adapter needed.

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RFP0320A*	Air	Flake	388	115	1	26.00
RFP0620A*	Air	Flake	682	115	1	26.00
RFP0620W*	Water	Flake	682	115	1	26.00



RFF1220C

FLAKE, RFF1220 SERIES

- Voltage: 208-230/1/60
- Overall dimension: 22"W x 23.6"D x 26"H
- Head only, suggested bin D320 or D420
- Now in standard measurements for perfect pairing with 22" ice bins. No adapter needed.

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RFF1220C*	Remote Air	Flake	1092	208-230	1	22.00



RFF1300A

FLAKE, RFF1300 SERIES

- Voltage: 208-230/1/60
- Overall dimension: 30"W x 23.6"D x 27.4"H
- Head only, suggested bin D570 or D970
- Now in standard measurements for perfect pairing with 30" ice bins. No adapter needed.

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RFF1300A*	Air	Flake	1264	208-230	1	30.00
RFF1300W*	Water	Flake	1264	208-230	1	30.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR NUGGET AND FLAKE ICE MACHINE


RFF2200C

FLAKE, RFF2200 SERIES

- Voltage: 208-230/1/60
- Overall dimension: 30"W x 23.6"D x 27.4"H
- Head only, suggested bins D970, F1300, F1325, F1650, FC1350

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RFF2200C*	Remote Air	Flake	1092	208-230	1	30.00


RNP0620W

NUGGET, RNF0600 SERIES

- Voltage: 115/1/60
- Overall dimension: 22"W x 23.6"D x 26"H
- Head only, suggested bins D420, D570

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RNP0620W*	Water	Nugget	210	115	1	26.00


RNF1020C

NUGGET, RNF1020 SERIES

- Voltage: 115/1/60
- Overall dimension: 22"W x 23.62"D x 27.36"H
- Head only, suggested bins D970, F700, F1300, F1325, F1650, FC1350

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RNF1020C*	Remote Air	Nugget	1116	115	1	30.00


RNF1100A

NUGGET, RNF1100 SERIES

- Voltage: 208-230/1/60
- Overall dimension: 30"W x 23.62"D x 27.36"H
- Head only, suggested bins D970, F700, F1300, F1325, F1650, FC1350

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
RNF1100A*	Air	Nugget	1078	208-230	1	34.00
RNF1100W*	Water	Nugget	1078	208-230	1	30.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF CONTAINED CUBE ICE MACHINE

NEO™ UNDERCOUNTER ICE MACHINES

- NEO produces more ice than ever before while using less water and energy. The storage bin provides industry leading capacity.
- NEO provides feedback with full bin and service indicators. Delay function allows you to pause your machine for slow periods or days when you're closed.
- NEO offers a forward-sliding storage bin for easy access to refrigeration components without having to move the entire ice machine.



USP0100

CRYSTALCRAFT MODEL USP0100 - UNDERCOUNTER CRAFT COCKTAIL 1" CLEAR SQUARE CUBE

CrystalCraft™ is a clear, individually formed, one-inch ice cube, designed to melt slowly and let your handcrafted creations shine.

- Crystal clear
- Slow melting
- One-inch by one-inch
- 22.5g weight
- Individually formed
- Perfect for handcrafted, premium cocktails

Manitowoc

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Ship Wgt (Lbs.)
USP0100*	Air	Dice	88	209.00

SELF CONTAINED FLAKE ICE MACHINE



UFP0200A

UFP SERIES

- Up to 398 lbs. (181 kgs) daily flake ice production.
- Up to 60 lbs. (27 kgs) ice storage capacity.
- Flake ice is perfect for food display, salad bars, and cold therapy/healthcare.
- High load maintenance free bearings for enhanced reliability.
- R290 Refrigerant is environmentally friendly with less ozone depletion compared to R404.
- Easy access

Manitowoc

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Ship Wgt (Lbs.)
UFP0200A*	Air	Flake	272	168.00
UFP0350A*	Air	Flake	400	224.00

SELF CONTAINED NUGGET ICE MACHINE



UNP0200A

UNP SERIES

- Bite-Size Nugget that boasts one of the industry's best ice to water ratios for nugget ice, maximizing cooling capability while minimizing drink dilution.
- Undercounter installation - UNF-0200 for kitchen counters and UNF-0300 for bar height counters.
- Up to 330 lbs. (150 kgs) daily nugget ice production.
- Perfect for carbonated beverages, blended smoothies and healthcare/physical therapy.
- Up to 50 lbs. (23 kgs) ice storage capacity.
- High load capacity bearings for enhanced reliability.
- R290 Refrigerant is environmentally friendly with less ozone depletion compared to R404.
- Easy access door, slides up & out of the way.

Manitowoc

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Ship Wgt (Lbs.)
UNP0200A*	Air	Nugget	220	157.00
UNP0300A*	Air	Nugget	325	224.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE AND FLAKE ICE MACHINE

QUIETQUBE® SERIES REMOTE SYSTEM

QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and cannot be used with any other ice machine or remote condenser brand.

- ENERGY STAR - the iF600Cs and iF0900Cs exceed ENERGY STAR® standards and target future energy efficiency standards.
- easyTouch® Display- New icon based touch screen takes the guess work out of owning and operating an ice machine.
- Programmable Ice Production – Now it's easy to program your ice machine to be off at certain times of the day to save money with fluctuating electrical rates. Also programmable by daily ice production volume.
- Intelligent Diagnostics – provide 24 hour preventative maintenance and diagnostic feedback for trouble free operation.
- Acoustical Ice Sensing Probe – Unique patented technology allows for reliable operation in challenging water conditions and environments.
- DuraTech™ Exterior – provides superior corrosion resistant above stainless steel. Innovative clear-coat resists fingerprints and dirt making it easier to keep clean.
- X suffix indicates LuminIce® II Growth Inhibitor is included (available for other models): controls the growth of bacteria and yeast with the food zone keep the machine cleaner longer. A new indicator in the display keeps you abreast of the operational status.



IDT1200C

QUIETQUBE®, REMOTE ICE CUBE MACHINE

- Head only, condensing unit, line set required
- Voltage: 115/1/60

Manitowoc

Part No.	Type Condenser Cooling	Ice Production (Lbs/ Day)	Cube Size	Voltage	Use with Condenser	Dimensions (In.) W	D	H	Ship Wgt (Lbs.)
IDT1200C*	Remote Air	975	Dice	115	CVDT1200	30.00	24.50	29.50	171.00
IDF1400C*	Remote Air	1150	Dice	115	CVDF1400	30.00	24.50	25.00	174.00
IDF1800C*	Remote Air	1375	Dice	115	CVDF1800	29.00	24.50	33.00	210.00
IDF2100C*	Remote Air	1625	Dice	115	CVDF2100	30.00	24.50	29.50	210.00
IYF0600C*	Remote Air	530	Half Dice	115	CVDF0600	30.00	24.50	21.50	146.00
IYF0900C*	Remote Air	714	Half Dice	115	CVDF0900	30.00	24.50	26.50	161.00
IYT1200C*	Remote Air	1000	Half Dice	115	CVDT1200	30.00	24.50	29.50	174.00
IYF1400C*	Remote Air	1220	Half Dice	115	CVDF1400	30.00	24.50	25.00	179.00
IYF1400CX*[1]	Remote Air	1220	Half Dice	115	CVDF1400	30.00	24.50	25.00	184.00
IYF1800C*	Remote Air	1470	Half Dice	115	CVDF1800	30.00	24.50	29.50	210.00

[1] LuminIce® II Growth Inhibitor Included



IBF0620C

QUIETQUBE®, ICE/BEVERAGE REMOTE ICE CUBE MACHINE,

Allows for convenient manual loading of ice in dispenser to satisfy peak ice usage.

Can be installed or retrofitted to virtually any commercial beverage dispenser.

Manitowoc

Part No.	Type Condenser Cooling	Ice Production (Lbs/ Day)	Cube Size	Voltage	Use with Condenser	Dimensions (In.) W	D	H	Ship Wgt (Lbs.)
IBF0620C*	Remote Air	555	Half Dice	115	CVFD0600	22.00	24.50	24.00	122.00
IBF0820C*	Remote Air	728	Half Dice	115	CVFD0900	22.00	24.50	26.50	130.00
IBT1020C*	Remote Air	1000	Half Dice	115	CVDT1200	22.00	24.50	30.50	148.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


SYF3000C

QUIETQUBE®, REMOTE ICE CUBE MACHINE, WITH QUADZILLA™ EVAPORATOR SYSTEM

- Quadzilla™ Evaporator System: places four high-output individual evaporators in a compact 48" wide ice maker for up to 2,910 lbs. daily ice production.
- Quiet operation. Remotely located compressor eliminates most noise from the refrigeration system. Promotes relaxing atmosphere.
- Patented CVD® technology improves reliability and extends life of the compressor.
- Stainless steel tubular frame construction - for added strength and durability.
- Stainless steel exterior for superior corrosion resistance and durability.
- Not to be used in stacking configurations.

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Ice Production (Lbs/ Day)	Cube Size	Voltage	Use with Condenser	W	D	H	Ship Wgt (Lbs.)
SYF3000C*	Remote Air	2400	Half Dice	115	CVDF3000	48.00	31.00	36.00	423.00


CVDF0600

CONDENSING UNIT, REMOTE COMPRESSOR

CVD (Cool Vapor Defrost) technology is basically a different type of ice harvest system that allows Manitowoc to move the compressor out of the customer environment. Standard remote condenser ice machines all use compressor hot gas systems to heat the evaporator during their ice harvest cycles. To make hot gas systems work, the compressor must be as physically close to the ice making evaporator as possible. This also means the noise from the compressor is always concentrated at the ice making part of the system.

Manitowoc CVD ice machines use vapor refrigerant from the receiver tank to harvest the ice. CVD systems all use large capacity refrigerant accumulators for maximum compressor protection under any operating condition.

			Dimensions (In.)			
Part No.	Use with	Voltage	W	D	H	Ship Wgt (Lbs.)
CVDF0600*	iF0600C, ibF0620C	208-230	34.00	24.13	25.75	178.00
CVDF0900*	iF0900C, ibF0820C	208-230	34.00	24.13	25.75	183.00
CVDF1400*	iF1400C	208-230	34.00	24.13	25.75	190.00
CVDF1800*	iF1800C	208-230	34.00	24.13	25.75	195.00
CVDT1200*	iT1200C, ibT1020C	208-230	34.00	24.13	25.75	208.00
CVDT12003*	iT1200C, ibT1020C	208-230	34.00	24.13	25.75	208.00
CVDF2100*	iF2100C	208-230	53.00	26.00	25.75	266.00
RCUF1000*	RNF1020C	208-230	34.00	24.13	25.75	201.00
RCUF1200*	RFF1220C, RNF1020C	208-230	34.00	24.13	25.75	201.00
RCUF2200*	RFF2200C	208-230	34.00	24.13	25.75	249.00
CVDF06003*	iF0600C, ibF0620C	208-230	28.00	24.13	28.00	178.00
CVDF09003*	iF0900C, ibF0820C	208-230	28.00	24.13	28.00	78.00
CVDF14003*	iF1400C	208-230	28.00	24.13	29.00	190.00
CVDF18003*	iF1800C	208-230	28.00	24.13	28.00	195.00
CVDT18003	1T1830C	208-230	34.00	24.13	25.75	195.00
CVDT1800	IDT1830C, IYT1830C	208-230	34.00	24.13	25.75	195.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ICE DISPENSER



CNF0201A

COUNTERTOP NUGGET ICE DISPENSER

			Dimensions (In.)			
Part No.	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
CNF0201A*[1]	315	10	16.25	24.00	35.00	184.00
CNF0202AL*[2]	315	10	16.25	24.00	42.00	198.00

[1] Touch free dispensing [2] Activation arm dispensing



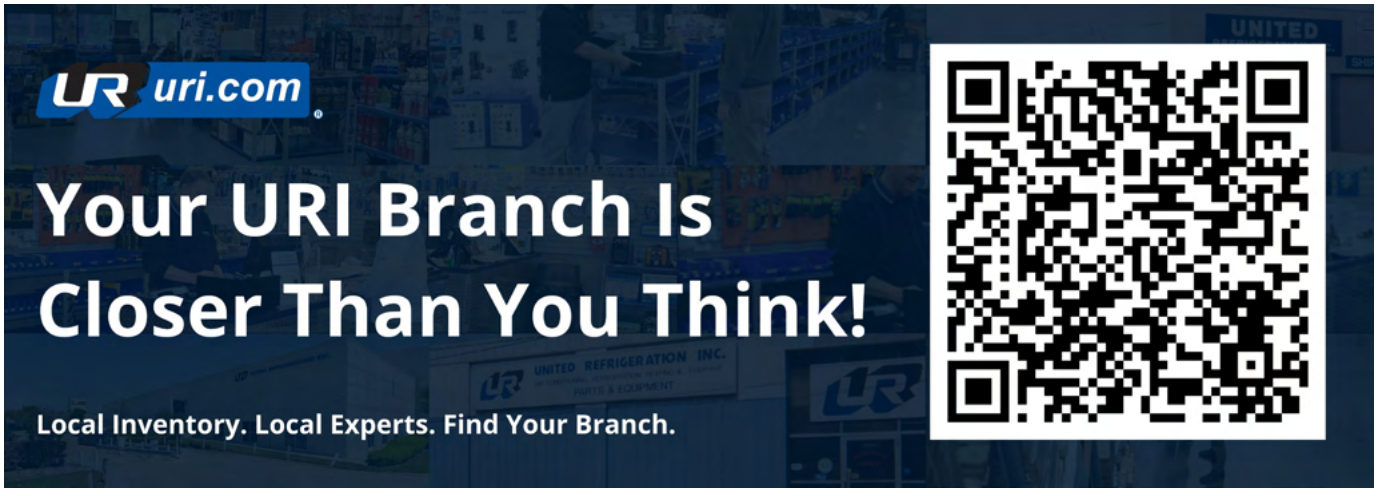
SFA192

ICE/WATER, FLOOR STANDING

Ice dispenser with standard water dispensing valve. Use with 22" or 30" dice or half dice cube machine.

- Dispenser only
- Voltage: 115/1/60

		Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
SFA192*	120	26.00	32.00	52.00	168.00
SFA292*	180	33.00	32.00	58.00	214.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STORAGE BIN



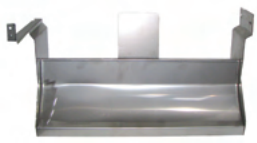
D320

ICE STORAGE BIN

- Duratech Metal Finish: Manitowoc exterior material has better corrosion resistance than stainless steel, is smudge resistant and easy to keep clean.
- Ergonomic Door design: Door is angled 53 degrees to allow for easier access to the ice in the bin especially when scooping from the bottom.
- Foamed Insulated Door: Insulates the ice bin, reduces sweat on the door, helps keep ice lasting longer.
- New Bin liner: Polyurethane Artic Blue bin liner accentuates the crisp clear ice from a Manitowoc Ice Machine.
- New Door design: Clever built in side grips allow you to lift the bin door from anywhere you are standing (left, right or center) even when you have just one hand free.
- New Sanitary Scoop: Ergonomic NSF approved sanitary ice scoop included with each bin. Built-in knuckle and thumb guard. Unique molded retaining lip allows maximum scooping every time. Per scoop capacity approximately 5.3 lbs.
- Scoop Holder options: New built-in scoop holder, keeps the ice scoop handle above the ice, or purchases the optional NSF approved External Scoop Holder Kit # K00461.
- Stay up door: Unique cammed bin door self-latch keeps the door in the open position and keeps the employee safe when scooping ice.

		Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
D320*	264	22.00	34.00	38.00	75.00
D420*	383	22.00	34.00	50.00	108.00
D400*	365	30.00	34.00	38.00	91.00
D570*	532	30.00	34.00	50.00	115.00
D-970*	882	48.00	34.00	50.00	150.00

ACCESSORIES



K00347

BIN ADAPTERS/DEFLECTORS

Adaptors and ice deflector kits for various current and non current machine/bin combinations

	Dimensions (In.)				
Part No.	W	H	Description	Adapts	Ship Wgt (Lbs.)
K00347*	18.80	8.30	Ice Deflector	30”/76.2 cm Indigo NXT with front facing evaporators on a non-Manitowoc or LB & F-style Bin	6.85
K00349*	19.50	9.30	Ice Deflector	48”/121.9 cm Indigo NXT on a non-Manitowoc or LB & F-style Bin	12.00
K00371*	17.00	2.00	Bin Adapter	two 22”/55.9 cm RFP,RNP (water or QQ) or Indigo NXT (with Top air discharge or water cooled) on a D970 bin.	9.00
K00382*	9.00	9.00	Ice Deflector	30” (72.6 cm) for I1400C, I1800C, or I2100C on a Non-Manitowoc or F-Style Bin	8.00
K00383*	19.00	9.00	Ice Deflector	two 30”/72.6 cm for I1400C, I1830C or I2100C on a non-Manitowoc or LB & F-style Bin	18.00
K00391*	19.00	9.00	Ice Deflector	S3000 ice machine on a non-Manitowoc or 48”/121.9 cm or 60” /152.4 cm LB & F-style Bin	6.00
K00396*	7.00	7.00	Bin Adapter	SF3000C or ST3000W on a LB1448 Bin	6.00
K00470*	23.00	3.00	Bin Adapter	30”/76.2 cm Indigo NXT, RFF, RNF ice machines on a 48”/121.9 cm D970 Bin	35.77
K00471*	10.00	10.00	Front and Center Deflector	For (2) 30-in. ice machine heads on a 48-in. B series or D970 binFor (2) 30-in. ice machine heads on a 48-in. B series or D970 bin	16.61
K303000*	33.00	6.00	Bin Adapter	30”/76.2 cm Indigo NXT Series Cuber on a F700 Bin (Included with bin)	40.00

Continued on next page

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ACCESSORIES

	Dimensions (In.)				
Part No.	W	H	Description	Adapts	Ship Wgt (Lbs.)
K483048*	37.00	7.00	Bin Adapter	30"/76.2 cm and 48"/121.9 cm Indigo NXT Series Cuber on a F1300 Bin (Included with bin)	45.00
K603030*	43.00	10.00	Bin Adapter	30"/ 76.2 cm Indigo NXT Series Cubers Side by Side on a F1325 or F1650 Bin (remote or water cooled) 5	52.00
K603048*	43.00	10.00	Bin Adapter	30"/76.2 cm and 48"/121.9 cm Indigo NXT Series Cuber on a F1325 or F1650 Bin (included with the bin)	52.00
K604800*	37.00	7.00	Bin Adapter	SF3000C & ST3000W on a F1325 or F1650 Bin	52.00
K614800*	52.00	11.00	Bin Adapter	ST3000W & SF3000C Ice Machine on FC1350 Bin	60.00



IAUCS

AUTOMATIC CLEANING SYSTEM

The patented AuCS® (Automatic Cleaning System) cleans your ice machine water distribution system automatically. Select a 2-week, 4-week or 12-week cleaning frequency. AuCS® activates the ice machine's cleaning function and cleans or sanitizes the system in approximately 30 minutes. AuCS® cuts maintenance costs, maximizes ice production and enhances the reliability and life of your Manitowoc ice machine.

- (I)AuCS® and AuCSSO are lightweight and mount on the outside; 12" x 12.12" x 3.43"
- AuCSSI mounts inside appropriate S model machines; 10" x 5" x 4.75"
- IAuCS: Electricity drawn directly from the ice machine.
- IBAuCS: Factory pre-wired with an 11 ft. power cord and NEMA 5-15P plug.

Part No.	Description	Use with	Voltage
IAUCS	All Indigo NXT models except IB models	I300 to I1800, I680C to I2170C	115
IAUCS261*	All Indigo NXT models except IB models	I300 to I1800, I680C to I2170C	208-230
IBAUCS*	Indigo NXT IB models	IB0690C, IB0890C and IB1090C	115



AR-PRE-P

WATER FILTER

All assemblies include head, shroud, hardware mounting assembly and one filter cartridge (AR40000 includes 2 cartridges).

- AR-PRE: all machines
- AR-10000: QMs, Q130-270 and 400 Flaker
- AR-20000: S300-600 and 700/800 Flakers

AR-40000: S850-1800, QDUAL

Part No.	Description	Ship Wgt (Lbs.)
AR-PRE-P*	Arctic Pure Plus: Pre-filter assembly includes head, shroud, hardware, mounting assembly and one filter cartridge. Use on all machines	21.00
AR-10000-P*	Arctic Pure Plus: Primary filter assembly includes head, shroud, hardware, mounting assembly and one filter cartridge. See sizing guide	25.00
AR-40000-P*	Arctic Pure Plus: Primary filter assembly includes head, shroud, hardware, mounting assembly and one filter cartridge. See sizing guide	24.00
K00496*	Replacement Cartridge for Arctic Pure+ AR-PRE-P Filtration Systems	22.00
K00337*	Pre Cartridge	2.00
K00493*	Replacement Cartridge for Arctic Pure+ AR-10000P Filtration Systems	29.00
K00374*	AR2800 Cartridge for SM50	0.22
K00495*	Replacement Cartridge for Arctic Pure+ AR-40000-P Filtration Systems	2.47
K00339*	AR20000/40000 Cartridge	2.50
K00173*	Tri-L Prefilter	0.50

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K00345

LEGS/CASTERS

Replacement or height change legs/casters for Manitowoc bins, machines and dispensers.

Part No.	Description	Use with
K00345*	Leg kit for SM50 & CNF201/202 series ice machines. Adjustable 4.5" to 6.4" (1.43-16.51 cm.)	SM50, SN12/20
K00064*	2.5" (6.35 cm) Casters. For use with NEO, Q-Series (not QM or UDE), and B170 bin. two (2) ea. locking swivel and two (2) ea. non-locking swivel.	Q130, 210, 270, and QF400 Series Ice Machines, and B170 Bin
K00138*	Adjustable Caster Legs, 7.625-8.625" (19.4 - 21.9 cm) - stainless steel. Not for use with 22" (52.9 cm) unit, or any stacked units, dispensers, QM's, UDE or UFP or UNP. two (2) locking casters and two (2) non-locking per set.	Q-130, Q-170, Q-210, and Q-270 series undercounter ice machines and B-170 or B-400 ice machine bins
K00176*	4" (10.16 cm) leg for UDE0065/80 - black painted	QM30, QM45
K00215*	UDE Series leveler legs, adjusts from 0.5"-1.25" (1.27-3.175 cm) – 1/2-13 thread	QM series
K00350*	6" (15.24 cm) Adjustable Legs - stainless steel standard on B&D Series bins.	B series bins
K00153*	4.625" (11.75 cm) Adjustable Flange Foot - stainless steel (Use with Bins only)	All Manitowoc undercounter ice machines, ice machine bins, and floor standing dispensers
K00144*	12" (30.48 cm) Adjustable Flange Foot - stainless steel. Can use with Neo undercounter machines and B170 and B&D 400 Bin. Not for use with 22" (52.9 cm) unit, stacked units, dispensers, or the QM or UDE series.	Undercounter machines, B170, B400 bins



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MODULAR CUBE ICE MACHINE

ICE KUBE MACHINE

Whether you're starting a restaurant, needing to replace your existing ice machine, or deciding to add an additional ice machine to your operation, consider Koolaire by Manitowoc. Koolaire ice machines provide you with basic features you need with the reliability you expect at a price that fits your budget.

- Easy access to food zone with removal of two screws and lift-off door
- High-tech exterior with smudge and fingerprint resistant stainless-like finish
- White plastics in the food zone help identify areas needing cleaning
- Water shield, distribution tube, pump, floats, and trough removable by hand
- Available CleanAir™ pack controls the growth of bacteria and fungi that form slime and cause odors in the food zone



KDT0420A

K0420 SERIES-22" WIDTH

- Head only, suggested bin K420
- Overall dimension: 22"W x 24 1/2"D x 21 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT0420A*	Air	Dice	450	115	1	22.00	24.50	21.50	143.00
KYT0420A*	Air	Half Dice	450	115	1	22.00	24.50	21.50	145.00
KDT0420W*	Water	Dice	450	115	1	22.00	24.50	21.50	130.00
KYT0420W*	Water	Half Dice	450	115	1	22.00	24.50	21.50	140.00



KYT0300A

K0300 SERIES-30" WIDTH

- Head only, suggested bin K570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KYT0300A*	Air	Half Dice	330	115	1	30.00	24.50	21.50	137.00



KDT0400A

K0400 SERIES-30" WIDTH

- Head only, suggested bin K570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT0400A*	Air	Dice	450	115	1	30.00	24.50	21.50	153.00

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						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KYT0400A*	Air	Half Dice	450	115	1	30.00	24.50	21.50	153.00
KDT0400W*	Water	Dice	450	115	1	30.00	24.50	21.50	147.00
KYT0400W*	Water	Half Dice	450	115	1	30.00	24.50	21.50	147.00



KDT0500W

K0500 SERIES-30" WIDTH

- Head only, suggested bin K570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT0500W*	Water	Dice	550	115	1	30.00	24.50	21.50	157.00



KDT0700A

K0700 SERIES-30" WIDTH

- Head only, suggested bin K570
- Overall dimension: 30"W x 24 1/2"D x 21 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT0700A*	Air	Dice	740	208-230	1	30.00	24.50	21.50	167.00
KYT0700A*	Air	Half Dice	740	208-230	1	30.00	24.50	21.50	167.00
KDT0700W*	Water	Dice	740	208-230	1	30.00	24.50	21.50	176.00
KYT0700W*	Water	Half Dice	740	208-230	1	30.00	24.50	21.50	176.00



KDT1000A

K1000 SERIES-30" WIDTH

- Head only, suggested bin K570
- Overall dimension: 30"W x 24 1/2"D x 29 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT1000A*	Air	Dice	960	208-230	1	30.00	24.50	29.50	241.00
KDT1000N*	Remote Air	Dice	960	208-230	1	30.00	24.50	29.50	245.00
KYT1000N*	Remote Air	Half Dice	960	208-230	1	30.00	24.50	29.50	245.00
KDT1000W*	Water	Dice	960	208-230	1	30.00	24.50	29.50	238.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE



KDT1700A

K1350 SERIES-48" WIDTH

- Head only, suggested bin K970
- Overall dimension: 48"W x 24 1/2"D x 29 1/2"H

KOOLAIRE By MANITOWOC

						Dimensions (In.)			
Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W	D	H	Ship Wgt (Lbs.)
KDT1700A*	Air	Dice	1652	208-230	1	48.00	24.50	29.50	292.00
KYT1700A*	Air	Half Dice	1652	208-230	1	48.00	24.50	29.50	292.00
KDT1700N*	Remote Air	Dice	1652	208-230	1	48.00	24.50	29.50	293.00
KYT1700N*	Remote Air	Half Dice	1652	208-230	1	48.00	24.50	29.50	293.00
KDT1700W*	Water	Dice	1652	208-230	1	48.00	24.50	29.50	298.00
KYT1700W*	Water	Half Dice	1652	208-230	1	48.00	24.50	29.50	298.00



RT20R410A

LINE SET

RTK/RLK: not pre-charged.
RT/RL: precharged with quick connects

KOOLAIRE By MANITOWOC

Part No.	Use with	Length (Ft.)
RT20R410A*	KT1000	20.0
RT35R410A*	KT1000	35.0
RT50R410A*	KT1000	50.0
RL20R410A*	KT1700	20.0
RL35R410A*	KT1700	35.0
RL50R410A*	KT1700	50.0



JCT1500

REMOTE CONDENSER

The vertical discharge remote air-cooled condenser system improves efficiency and ice production, conserving energy. Koolaire remote condenser systems effectively dissipate heat at a convenient location, indoors or outdoors, away from the ice machine. This maximizes ice-making capability and minimizes air conditioning loads by lowering the ambient air temperature at the ice machine.

- Condenser operation range from -20°F to 120°F
- Can be installed with up to 20" of bottom clearance
- Remote system consists of a remote condenser and interconnecting refrigerant lines
- Order ice cube machine, ice storage bin and line set separately

KOOLAIRE By MANITOWOC

			Dimensions (In.)			
Part No.	Use with	Voltage	W	D	H	Ship Wgt (Lbs.)
JCT1500*	KT1000 Series	208-230	32.00	27.94	18.00	79.00
JCT1200*	K1200/K1800 series	208-230	28.00	28.00	18.00	67.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STORAGE BIN



K420

KUBE SERIES STORAGE BIN

- Convenient stay-open design keeps bin door out of the way while scooping ice
- Internal scoop holder stays above ice line for easy access and better sanitation
- High-tech stainless-like finish has been engineer-tested with superior corrosion resistance
- Black side panels to match your Koolaire ice machine
- Simensions do not include bin leg height of 4-6 inches

			Dimensions (In.)			
Part No.	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
K420*	383	310	25.00	34.00	47.00	250.00
K400*	395	290	30.00	34.00	38.00	91.00
K570*	532	430	33.00	34.00	46.00	115.00
K970*	882	710	51.00	34.00	46.00	150.00

UNDERCOUNTER ICE CUBE MACHINE



KDF0150A

UNDERCOUNT KUBE ICE MACHINE

- Simple controls, convenient, reliable and long lasting.
- Simple 3-way switch for on/off/clean. No need to remove the front panel.
- Front air intake and discharge.
- Easy to remove, re-usable air filter to keep the condenser cleaner.
- Hideaway bin door slides under the ice machine top.
- 6" legs not included in height
- 115/1/60
- Type condenser cooling: air

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Ship Wgt (Lbs.)
KDF0150A*	Air	Dice	169	155.00
KDF0250A*	Air	Dice	258	210.00
KYF0150A*	Air	Half Dice	169	155.00
KYF0250A*	Air	Half Dice	258	210.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ICE/BEVERAGE DISPENSER


SV150

SV SERIES

Includes indicated quantity Flomatic 464 beverage valves, leg kit, key switch, drain kit, lighted merchandiser with Quench Your Thirst graphics.

- Stainless steel exterior
- Manual fill or top-mount with compatible ice machine
- Add 1" to height for plastic lid
- Power: 120/1/60
- UL, NSF, cUL, LA listed

			Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	Nb. of Valves	W	D	H	Ship Wgt (Lbs.)
SV150*	150	6	23.00	31.25	34.75	232.00
SV150PB*[1]	150	6	23.00	31.25	34.75	232.00
SV175*	175	8	25.00	31.25	34.75	259.00
SV200-8*	200	8	30.00	31.13	34.88	300.00
SV200-10*	200	10	30.00	31.13	34.88	300.00
SV250-8*	250	8	30.00	31.13	40.88	325.00

[1] Push Button


MDH302-12

MDH SERIES

Includes stainless steel exterior, timed agitation, key switches, drain kit, lighted merchandiser with "Quench your Thirst" graphics.

- Manual fill or top mount with compatible ice machine
- Add 1" height for plastic lid
- Power: 115/1/60

Options:

- 24" and 34" extended merchandiser

			Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	Nb. of Valves	W	D	H	Ship Wgt (Lbs.)
MDH302-12*	300	12	42.75	30.50	33.25	430.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


MDH30212PBICEPIC

MDH SERIES, ICEPIC™ INTEGRATED ICE CRUSHER

The icepic™ option is the industry's first built-in ice crusher providing two types of ice from a single ice maker/ice dispenser combination. It has increased beverage cooling efficiency vs. nugget-style ice. Saves: 25% on equipment acquisitions, 30% on equipment installation, and 45% on maintenance.

- Provides two ice dispense points with maximum flavor selection in one ice and beverage dispenser.
- Servend's patented Flex manifold makes carbonated or non-carbonated flavor changes possible in minutes.
- Patented rocking chute ice dispense technology reduces ice spillage.
- Add 1" height for plastic lid
- Power: 115/1/60

Options:

- Water lever, carbonator, regulator and installation kits, ice machine adaptor kits, 24" and 34" extended merchandiser, Americans with Disabilities Act (ADA) compliant selection touchpads.

Servend

			Dimensions (In.)			
Part No.	**Storage Capacity (Lbs.)**	**Nb. of Valves**	**W**	**D**	**H**	**Ship Wgt (Lbs.)**
MDH30212PBICEPIC*	300	12	42.75	30.50	32.25	448.00
MDH40220PBICEPIC*	400	20	60.00	30.50	32.25	543.00



020001308

- Flavor Magic™ System is compatible with all MDH-Series, SV-Series, and S-Series ice/beverage dispensers.
- Valve components are based on proven Flomatic technology.
- Blue LED backlit dispense nozzle draws attention to product.
- Built-in dispense counter allows usage data to be retrieved from control board.
- Available pre-installed on new equipment or in easy-to-install retrofit kits to add flavor flexibility to existing equipment.
- Retrofit kits contain all the necessary components, including the syrup rack and pumps.
- Flavor Magic System is available in 3 or 4 flavors with single control module and 3, 4, 6 and 8 flavors with dual control modules. Dual control module systems are compatible with MDH-302 and MDH-402 dispensers only

Servend

Part No.	**Description**	**Ship Wgt (Lbs.)**
020001308*	Flavor Magic™, single control module MDH302-402, 4 flavors per module	10.01

COUNTERTOP ICE DISPENSER



M45

M SERIES

Lever ice dispenser and Ice graphics.

- Power: 120/60/1, 2.8A
- UL, NSF, cUL, LA listed
- Add 1" to height if using lid

Options:

- Lighted merchandiser
- Push-button ice dispense

Ice machine option:

- Manual fill only

Servend

		Dimensions (In.)			
Part No.	**Storage Capacity (Lbs.)**	**W**	**D**	**H**	**Ship Wgt (Lbs.)**
M45*	45	15.00	28.00	24.25	67.00
M45DW*[1]	45	15.00	28.00	24.25	67.00
M90*	90	15.00	28.00	32.00	116.00
M90DW*[1]	90	15.00	28.00	32.00	117.00

[1] Water Dispenser

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

COUNTERTOP ICE DISPENSER



S150

S SERIES

Lighted merchandiser, ICE graphics, leg kit and drain kit
- Models designated water include water dispensing valve
- Power: 120/60/1, 2.8A
- UL, NSF, cUL, LA listed

Ice machine option:
- Manual fill or top-mount with compatible ice machine

		Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
S150*	150	23.00	31.25	34.75	131.00
S150DW*[1]	150	23.00	31.25	34.75	131.00
S200*	200	30.00	31.25	34.88	161.00
S200DW*[1]	200	30.00	31.25	34.88	161.00
S250*	250	30.00	31.13	40.88	188.00
S250DW*[1]	250	30.00	31.13	40.88	188.00

[1] Water Dispenser


DIL-2323-8

DROP-IN SERIES

Key switch, Quench Your Thirst graphics and lighted merchandiser.
- Power: 120/60/1, 2.4A
- UL, NSF, cUL, LA listed

- Includes indicated number of pushbutton or sanitary lever Flomatic beverage valves

		Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
DIL-2323-8*	97	23.00	23.00	47.25	227.00

CUP DISPENSERS, CD SERIES


BCD4URB

CD4U

- Four cup tubes (approx 12-44 oz. cups, 3 3/8"-4 5/8" cup diameter). No special cup tube sizes available
- Maximum foam cup diameter is 3 7/8"

- Maximum paper or plastic cup diameter is 4 5/8"
- Width: 13.125" x Depth: 22.5"

	Dimensions (In.)			
Part No.	W	D	H	Ship Wgt (Lbs.)
BCD4URB*	13 1/8	22 1/2	33.00	38.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE



MC0322MA1

PRODIGY ELITE MC0322

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC0322MA1*	Air	Medium	356	115	1	22.00
MC0322MW1*	Water	Medium	366	115	1	22.00



SC201AC

SC200 SERIES – UNDERCOUNTER CUBE ICE MACHINE

- Stores 125 lbs. of ice – Best in Class
- ADA compliant: 31.4"H without legs; fits under 34" countertops
- Ideal for any undercounter or bar application
- Front breathing design allows for installation in tight spaces
- Produces unique 1.25" x 1.25" x 1.25" hard, individual square cubes
- Slow melting cube perfect for cocktails and beverages

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	W
SC201AC*	Air	Big	119	115	1.00



GTX564AC

GTX560 SERIES – MODULAR CUBE ICE MACHINE

- Ideal for bar and restaurant applications
- Produces unique 1.25" x 1.25" x 1.25" hard, square cubes
- Slow melting cube perfect for cocktails and beverages
- Unique horizontal evaporator design helps eliminate impurities from the ice
- Stackable design for higher production

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
GTX564AC*	Air	Big	405	208-230	1	1.00
GTX561AC*	Air	Big	424	115	1	1.00
GTX561LC*	Liquid	Big	477	115	1	1.00
GTX564LC*	Liquid	Big	489	208-230	1	1.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE


GBX1064RC

GBX1060 SERIES – MODULAR CUBE ICE MACHINE

- Ideal for bar and restaurant applications
- Produces up to 1000 lbs. of ice per day
- Produces unique 1.25" x 1.25" x 1.25" hard, square cubes
- Slow melting cube perfect for cocktails and beverages
- Unique horizontal evaporator design helps eliminate impurities from the ice
- Stackable design for higher production
- Air Cooled, Water Cooled or Remote
- Designed, Engineered and Assembled in the USA

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
GBX1064RC*	Remote Air	Big	767	208-230	1	1.00
GBX1064AC*	Air	Big	860	208-230	1	1.00
GBX1064LC*	Liquid	Big	918	208-230	1	1.00


GBX561AC

GBX560 SERIES – MODULAR CUBE ICE MACHINE

- Ideal for bar and restaurant applications
- Produces up to 500 lbs. of ice per day
- Produces unique 1.25" x 1.25" x 1.25" hard, square cubes
- Slow melting cube perfect for cocktails and beverages
- Unique horizontal evaporator design helps eliminate impurities from the ice
- Stackable design for higher production
- Air Cooled or Water Cooled
- Designed, Engineered and Assembled in the USA

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
GBX561AC*	Air	Big	402	115	1	1.00
GBX561LC*	Liquid	Big	413	208-230	1	1.00
GBX564LC*	Liquid	Big	427	208-230	1	1.00
GBX564AC*	Air	Big	456	115	1	1.00


GTX361AC

GTX360 SERIES – MODULAR CUBE ICE MACHINE

- Ideal for bar and restaurant applications
- Produces up to 300 lbs. of ice per day
- Produces unique 1.25" x 1.25" x 1.25" hard, individual square cubes
- Slow melting cube perfect for cocktails and beverages
- Unique horizontal evaporator design helps eliminate impurities from the ice
- Stackable design for higher production
- Air Cooled or Water Cooled
- Designed, Engineered and Assembled in the USA

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
GTX361AC*	Air	Big	282	115	1	1.00


MC0522SW1

PRODIGY ELITE MC0522

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC0522SW1*	Water	Small	480	115	1	22.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PRODIGY ELITE MC0630



MC0630MA32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC0630MA32*	Air	Medium	640	208-230	1	30.00
MC0630SR32*	Remote Air	Small	614	208-230	1	30.00
MC0630MR32*	Remote Air	Medium	614	208-230	1	30.00

PRODIGY ELITE MC0722



MC0722MA32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC0722MA32*	Air	Medium	758	208-230	1	22.00

PRODIGY ELITE MC0830



MC0830MR32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC0830MR32*	Remote Air	Medium	870	208-230	1	30.00
MC0830SR32*	Remote Air	Small	870	208-230	1	30.00

PRODIGY ELITE MC1030



MC1030SA32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC1030SA32*	Air	Small	1077	208-230	1	30.00
MC1030MA32*	Air	Medium	1077	208-230	1	30.00
MC1030SR32*	Remote Air	Small	996	208-230	1	30.00
MC1030MW32*	Water	Medium	1029	208-230	1	30.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR CUBE ICE MACHINE

PRODIGY ELITE MC1448



MC1448SA32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC1448SA32*	Air	Small	1553	208-230	1	48.00
MC1448MA3*	Air	Medium	1553	208-230	1	48.00
MC1448MA32*	Air	Medium	1553	208-230	1	48.00
MC1448SR32*	Remote Air	Small	1357	208-230	1	48.00
MC1448SW32*	Water	Small	1444	208-230	1	48.00
MC1448MW32*	Water	Medium	1444	208-230	1	48.00

PRODIGY ELITE MC1848



MC1848SR32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC1848SR32*	Remote Air	Small	1828	208-230	1	48.00
MC1848MR32*	Remote Air	Medium	1909	208-230	1	48.00

PRODIGY ELITE MC2148



MC2148SR32

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC2148SR32*	Remote Air	Small	1965	208-230	1	48.00
MC2148MR32*	Remote Air	Medium	1965	208-230	1	48.00

PRODIGY ELITE MC222



MC222SL1

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC222SL1*	Air	Small	850	115	1	22.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PRODIGY ELITE MC2648



MC2648SR3

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
MC2648SR3*	Remote Air	Small	2630	208-230	1	48.00

REMOTE CONDENSER



ERC1111

- Used with modular cube ice machines—remote air condenser types
- Connect with RTE line sets
- RCKCME6X connection kit for CME1056R, 1356R, 1656R models to non-Scotsman remote rack condensers
- KCMR230 relay kit for (2) CME656R machines with ERC402-32A
- 208-230/1/60 (ERC1111: 115/1/60)

			Dimensions (In.)			
Part No.	**Use with**	**Voltage**	**W**	**D**	**H**	**Ship Wgt (Lbs.)**
ERC1111*	C0530*R	115	29.50	29.50	38.47	95.00
ERC31132*	C0630*R, C0830*R, C1030*R, or C1448*R	208-230	22.00	29.13	23.00	130.00
ERC61132*	C1848*R or C2148*R	208-230	22.00	37.80	23.00	140.00

LINE SET, REMOTE



BRTE10

Use to connect remote air model ice machine to appropriate condenser.
For all remote machines including Prodigy™ series. Use 3RTE linesets for Eclipse™ series machines

Part No.	Use with	Length (Ft.)
BRTE10*	Select modular cube, flake and nugget ice machines	10.0
BRTE25*	Select modular cube, flake and nugget ice machines	25.0
BRTE40*	Select modular cube, flake and nugget ice machines	40.0
BRTE75*	Select modular cube, flake and nugget ice machines	75.0

PRODIGY PLUS®, LINE SET



3BRTE20EH

Part No.	Length (Ft.)
3BRTE20EH*	20.0
3BRTE35EH*	35.0
3BRTE50EH*	50.0
3BRTE75EH*	75.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF CONTAINED CUBE ICE MACHINE


UC2724SA1

ESSENTIAL ICE™ SERIES

- Slide back door allows easy access to ice in the bin
- Intuitive control panel allows for quick and easy operation
- The ice maker can be placed in the tightest locations
- Optional floor mount kit allows for installation under 34" countertops
- Unique evaporator produces crystal clear cubes
- Meets US federal energy efficiency requirements and US Safe Drinking Act low lead requirements
- Non-ozone depleting R-134a refrigerant
- Industry leading 3 year parts and labor warranty
- 115/1/60

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	Ship Wgt (Lbs.)
UC2724SA1*	Air	Small	282	80	175.00
UC2724MW1*	Water	Medium	266	80	175.00


CU50PA1C

CU50 SERIES

- GA1 models are gravity drain, PA1 models are pump drain
- Uniquely-shaped, crystal-clear, slow-melting, taste-free, odorless ice - won't dilute the flavor of drinks.
- Water-quality sensor detects hard water conditions and control system purges mineral laden water with every harvest cycle, which helps extend the time between cleanings.
- User-friendly control panel informs whether power is on, alerts a no-water condition, and a time to clean reminder.
- UL approved for outdoor applications.
- Available with built-in drain pump, for installation flexibility, minimizing installation costs.
- Designed for commercial applications.
- 115/1/60
- Dimensions: 14 7/8" W x 23 15/16" D x 34 3/8" H

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	Ship Wgt (Lbs.)
CU50PA1C*	Air	Cube	49	26	118.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF CONTAINED FLAKE AND NUGGET ICE MACHINE

ESSENTIAL ICE, UNDERCOUNTER

- Greaseless bearing for reduced maintenance
- Stainless steel evaporator for maximum durability
- External air filter for easy cleaning
- Unit specific QR code for quick access to service manuals and warranty history
- Slide back door allows easy access to ice in the bin
- Intuitive control panel allows for quick and easy operation
- Ice scoop and power cord included
- Only 24" wide, the ice maker can be placed in the tightest locations
- Optional floor mount kit lowers height to 33.5"
- 3 Year parts and labor warranty



UF424W1

SELF-CONTAINED, FLAKE, ESSENTIAL ICE

- Dimension: 24" W x 28 1/2" D x 39" H
- 115/1/60

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	Ship Wgt (Lbs.)
UF424W1*	Water	Flake	330	80	210.00



UN324W1

SELF-CONTAINED, NUGGET, ESSENTIAL ICE

- Dimension: 24" W x 28.4" D x 39" H
- 115/1/60

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	Ship Wgt (Lbs.)
UN324W1*	Water	Nugget	281	80	210.00

MODULAR FLAKE ICE MACHINE



FS1522A

F1522 SERIES

- 208-230/1/60
- Head only
- Not stackable
- Overall dimension: 22" W x 24" D x 27" H

Scotsman Ice Systems

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
FS1522A*	Air	Flake	1100	208-230	1	22.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MODULAR NUGGET ICE MACHINE


NS1322A

N1322 SERIES

- 208-230/1/60
- Head only
- Not stackable
- Overall dimension: 22" W x 24" D x 27" H

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Voltage	Phase	W
NS1322A*	Air	Chewable	950	208-230	1	22.00

ICE MACHINE/DISPENSER


HID312AW1

WATER AND ICE DISPENSER, MERIDIAN™

- Durable stainless steel evaporator and exterior panels. Greaseless bearings for reduced maintenance. Larger sink opening and dispensing area. Antimicrobial AquaArmor with AgION™ is molded into key components.
- Space-maximizing design: featuring specially designed contoured sides for enhanced breathability and an external air filter.
- Removable front panels allow ease of access and service to all key internal components. Including a removable storage bin for better cleaning and maintenance access.
- Enhanced service features: intuitive LED diagnostic lights reduce service time. Unit specific QR code for quick access to service manuals and warranty history. Convenient USB drive that allows for fast software updates. New removable sink and grill provide maximum access for ease of cleaning.
- Quieter operation: improved condenser fan function.
- Shown on picture with optional KLP24A legs

Part No.	Type Condenser Cooling	Cube Size	Ice Production (Lbs/Day)	Storage Capacity (Lbs.)	Ship Wgt (Lbs.)
HID312AW1*[1]	Air	Chewable	225	12	188.00
HID540AW1*[1]	Air	Chewable	365	40	220.00

1 Wall Mount

ICE DISPENSER


HD22B1H

MODULAR

- Use HD30 with CME256, 506, 656, 806, 686RLS, 810RLS, C0330, 0530, 0630, EH222 series
- Use HD22 with CME306, 456, 686RLS, 806RLS, C0322, 0522, EH222 series
- Ideal for hotel/motel applications
- Voltage: 115/1/60
- 33 1/2" Depth x 53 1/4" Height
- Height does not include 6" legs

			Dimensions (In.)				
Part No.	Actuation	Storage Capacity (Lbs.)	W	D	H	Use with	Ship Wgt (Lbs.)
HD22B1H*	Pushbutton	120	22.00	33.50	47.25	CME306, CME456, CME686RLS, CME806RLS, C0322, C0522, EH222	199.00
HD30B1H*	Pushbutton	180	30.00	33.50	47.25	CME256, CME506, CME656, CME806, CME686RLS, CME810RLS, C0330, C0530, C0630, EH222	220.00
HD30W1H*	Pushbutton, Water Filler	180	30.00	33.50	47.25	CME256, CME506, CME656, CME806, CME686RLS, CME810RLS, C0330, C0530, C0630, EH222	225.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STORAGE BIN


KDB230

KOLD-DRAFT

- Four models to meet a wide range of space and capacity requirements.
- Wider bins accommodate larger icemakers and side-by-side installation of smaller cubers and flakers.
- Extra large door openings provide maximum access for ice removal and bin cleaning.
- Extra low door sills allow users to easily reach ice at the bottom of the bin.
- Stainless steel exterior standard.
- Heavy-duty support even heavy stacks of icemakers.
- Non-corroding polyethylene-lined walls eliminate pitting and staining from released chlorine and makes cleaning easy.
- Non-CFC polyurethane foam insulation bonds shell and lining.
- Rigid stainless steel lift doors to withstand heavy use.
- Fully replaceable gasket seals door opening to reduce meltage.
- Made In the USA

Part No.	Storage Capacity (Lbs.)	D
KDB230*	230	34.00
KDB400*	400	34.00
KDB650*	650	35.00
KDB950*	950	31.75


B322S

B SERIES MODULAR STORAGE BINS

- S: stainless exterior, poly liner
- P: poly exterior, poly liner
- New sleek, contemporary styling
- A perfect match to Prodigy Plus cube ice machines and other Scotsman ice machines
- Convenient, built-in scoop holder
- Easily removable baffle, no tools required for cleaning
- Lightweight
- Unique recessed drain fitting for maximum installation flexibility
- Corrosion resistant
- Spring loaded door with hidden hinges for easy opening and closing (except for B230P)
- Ice scoop included.

		Dimensions (In.)			
Part No.	Storage Capacity (Lbs.)	W	D	H	Ship Wgt (Lbs.)
B322S*	290	22.00	34.00	44.00	140.00
B330P*	270	30.00	34.00	30.00	90.00
B530S*	420	30.00	34.00	44.00	150.00
B530P*	420	30.00	34.00	44.00	110.00
B842S*	610	42.00	34.00	44.00	185.00
B948S*	700	48.00	34.00	44.00	220.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESSORIES

STANDARD BIN ADAPTER

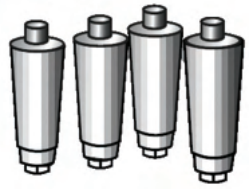


KBT14A

Scotsman Ice Systems

Part No.	To Adapt Machine	To Bin	Description	Ship Wgt (Lbs.)
KBT14A*	NME1854, 2504, FME2404, 3004	B948	Standard bin adapter, to adapt machine NME1854, 2504, FME2404, 3004 to B948 bin	8.00
KBT22B*	30" modular cubers, flakers or nugget makers	B948	Standard bin adapter, to adapt 30" modular cubers, flakers or nugget makers to B948	11.00
KBT27*	All 22" modular cubers (except CME656,810)	BH550, B330, B530, any HTB	Standard bin adapter, to adapt all 22" modular cubers (except CME656,810) to BH550, B330, B530, any HTB bin	8.00
KBT29*	All 30" modular cubers	BH801SA, B842S	Standard bin adapter, to adapt all 30" modular cubers to BH801SA, B842S	10.00
KBT38*	All 22" modular cubers, flakers, nugget makers (except EH222)	B948	Standard bin adapter, to adapt all 22" modular cubers, flakers and nuggets (except EH222) to B948 bin	17.00
KBT382X*	All 22" modular cubers, flakers, nugget makers (except EH222) side by side	B948	Standard bin adapter, to adapt all 22" modular cubers, flakers and nuggets (except EH222) side by side to B948 bin	5.00
KBT39*	All 22" modular cubers, flakers, nugget makers (except EH222)	B842	Standard bin adapter, to adapt all 22" modular cubers, flakers and nuggets (except EH222) to B842 bin	10.00

LEGS, CASTERS



KLP7

Scotsman Ice Systems

Part No.	Description	Use with
KLP7*	6" Leg, Black Enamel, Flanged Feet	HTB, B, BH, HD
KLP8S*	6" Leg, Stainless Steel	All new B series bins
KLP24A*	4" Adjustable Legs (4/Pack)	Meridian Series (HID312, HID525, HID540)
KBC1*	4 7/16" Rise Bin Caster Kit, 2 Reg., 2 Lock	BH550, BH801, BH900, SB480, B222-B948 (Non Stacked)

SCOOP HOLDER



KHOLDER

Scotsman Ice Systems

Part No.	Description
KHOLDER*	Stainless Steel Scoop Holder

BAGGER



BGS10

Scotsman Ice Systems

Part No.	Description
BGS10*	Bagger Unit
KBAG*	Bags, 1,000 Ea.
KSEALER*	Tape Sealer
KTAPE*	Tape, 180'

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


HST16A

STAND FOR MERIDIAN SERIES

- Stainless steel construction for optimum durability
- Space saving design
- Includes reversible locking door for maximum functionality
- Inside cabinet features ample storage space with a steel shelf
- Includes 6" adjustable legs
- Designed to fit perfectly with Meridian dispensers
- Back panel designed for easy dispenser utility

Part No.	Description	Use with
HST16A*	Machine Stand, Stainless Steel, 16.5" x 23.75" x 32"	HID312
HST21A*	Machine Stand, Stainless Steel, 21.5" x 23.75" x 32"	HID525 & HID540


KVS

PRODIGY

Using field-proven ultrasonic technology, the Vari-Smart™ ice-level control maintains the ice level you set to keep just the right amount of freshly made ice in the bin. Along with the Smart-Board™ control, this feature allows you the flexibility to program your ice level for up to 7 days. That means customers get fresh ice while you save water and electricity.

Part No.	Description
KVS*	Prodigy Vari-Smart™ Ice Level Control


SSM1

WATER FILTER

Part No.	Description	Ship Wgt (Lbs.)
SSM1	Single System—Cubers <650 Lb., Flaker/ Nugget <1,200 Lbs.	7.00
SSM2*	Dual System—Cubers >650 Lb., Flaker/Nugget >1,200 Lbs.	11.00
SSM3*	Triple System—Cubers >1,300 Lbs.	16.00
SC10A*	Coarse Pre-Filter, 10", 5 Micron Filtration, Use with CME Series	5.00


AP1P

AQUA PATROL™ PLUS WATER FILTER

Part No.	Description	Ship Wgt (Lbs.)
AP1P*	Single System—Cubers <650 Lb., Flaker/ Nugget <1,200 Lbs.	4.33
AP2P*	Dual System—Cubers >650 Lb., Flaker/ Nugget >1,200 Lbs.	11.00
AP3P*	Triple System—Cubers >1,300 Lb.	16.00
APRCP*	Aqua Patrol™ Plus Cartridge (1 each)	1.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PENTAIR



EV985800

FULL FLOW FILTRATION SYSTEM

The same commercial quality that makes Pentair Everpure the overwhelming choice for water filtration in restaurants is also available for your home - now without the need for extra faucets.

- No additional faucet required
- Built-in water shut-off allows for easier cartridge changes
- Commercial grade metal canister protects the filter system from splitting or bursting
- Reduces particles as small as 0.5 micron in size by mechanical means
- Helps prevent lime and scale build-up in water-using appliances
- Retains vital minerals found naturally in water to ensure the health and delicious taste of your water
- Ideal for anywhere in your home
- Reduces lead, chlorine taste and ordor, lime, scale, rust and corrosion, cysts (NSF/ANSI standard 53 certified to reduce cysts such as Cryptosporidium and Giardia by mechanical means)
- Applications: kitchen, prep sink, pot filler, wet bar, ice maker,

PENTAIR EVERPURE

		Dimensions (In.)					
Part No.	Description	W	D	H	Flow (GPM)	Capaci-ty (Gal.)	Ship Wgt (Lbs.)
EV985800*	EF-1500, required space: 5" W x15" H x 5" D	3.50	4.25	11.50	2.2	1500	4.00
985700*	EF-3000, required space: 5" W x 20" H x 5" D	5.00	5.00	20.00	2.2	3000	5.00
985500*	EF-6000, required space: 5" W x 22" H x 5" D	5.00	5.00	22.00	1.67	6000	6.00



932401

INSURICE® ICE SYSTEM

Systems include head, pressure gauge and Insurice cartridge(s). Insurice cartridges are designed specifically for ice machine applications, have 1/2 micron precoat filtration with scale inhibitor feed.

Features:

- NSF certifications
- Manifold has inlet water shutoff valve with optional integrated sediment prefilter, flushing valve and water pressure gauge(s)
- Chlorine, taste & odor and sediment reduction
- Harmful cyst reduction by mechanical means
- 1/2 micron filtration by mechanical means
- Scale control
- Proprietary Micro-Pure® II filtration media effectively inhibits the growth of bacteria on the filter media that can decrease product life

PENTAIR EVERPURE

				Application (Lbs/Day)		
Part No.	Description	Cartridge	Flow (GPM)	Cuber	Flaker	Ship Wgt (Lbs.)
932401*	Single System	I-2000[2]	1.67	<650	<1500	7.70
932421*	Single System with Prefilter	I-2000[2]	1.67	<650	<1500	26.50
932402*	Twin System	I-2000[2]	3.34	<1200	<2500	27.60
932422*	Twin System with Prefilter	I-2000[2]	3.34	<1200	<2500	18.30
932503*	Triple System	I-4000[2]	5.00	<1600	<3500	27.10
932523*	Triple System with Prefilter	I-4000[2]	5.00	<1600	<3500	61.00
932504*	Quadruple System	I-4000[2]	7.30	<2400	High Volume	26.80
932744*	Quadruple System with Prefilter	4FC-S	10.0	<2400	<5000	35.00
932460*	Single System	4SI	2.00	<500	<1500	4.50
932461*	Single System with Prefilter	4SI	2.00	651 - 1200	<2000	10.00
932470*	Single System	7SI	3.50	651 - 1200	<2000	6.00
932471*	Single System with Prefilter	7SI	3.50	651 - 1200	<2000	10.00
932472*	Twin System	7SI	7.00	1201 - 1600	>3500	12.00
932473*	Twin System with Prefilter	7SI	7.00	1201 - 1600	>3500	20.00
932474*	Triple System	7SI	10.50	<2400	>3500	18.00
932475*	Triple System with Prefilter	7SI	10.50	<2400	>3500	23.00
932476*	Quad System	7SI	14.00	>2400	>5000	22.00
932477*	Quad System with Prefilter	7SI	14.00	>2400	>5000	43.00
932773*	Triple System with Prefilter	7FC-S	7.50	>1500 (Hoshizaki)	N/A	27.00
932774*	Quadruple System with Prefilter	7FC-S	7.50	>2400	>5000	4.00

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961227

INSURICE CARTRIDGE

Class 1 taste and odor, chlorine reduction, particulate and cyst reduction.
New and improved Micro-Pure II media with AgION™ anti microbial protection inhibits potential bacterial growth (961227, 961237)

- Capacity at 1.67 gpm

PENTAIR EVERPURE

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
961227	I-2000[2], 1/2 Micron	9,000	8.6
961237*	I-4000[2], 1/2 Micron	12,000	10.1


979580

PREFILTER

Filters out large dirt and rust particles to 10 microns. Extends the life of submicron filter cartridges.

PENTAIR EVERPURE

Part No.	Description
979580*	10" black housing with EC110 replaceable prefilter cartridge
979590*	20" black housing with EC210 replaceable prefilter cartridge


953440

PREFILTER CARTRIDGE

PENTAIR EVERPURE

Part No.	Description
953440*	EC110, Prefilter, 10", 10 micron (K - 10)
953420*	EC210, Prefilter, 20", 10 Micron (K - 20)


927501

FOUNTAIN BEVERAGE

Systems include head, pressure gauge and MC cartridge(s). Use 9795 prefilter to extend life of cartridge.

- Application is syrup tanks or bag-in-box per month/number of carbonators.

PENTAIR EVERPURE

Part No.	Description	Cartridge	Flow (GPM)	Application Tanks/Carbonators	Capacity (Gal.)	Ship Wgt (Lbs.)
927501*	Single System	MC[2](1 each)	1.67	<25/1	9000	7.1
927502*	Twin System	MC[2](2 each)	3.34	<50/2	18000	26.1
927503*	Triple System	MC[2](3 each)	5.00	<75/3	27000	26.3
933744*	Dual High Flow Coldrink S	MC[2] (8 each), EC210(2)	13.36	High Volume	72000	22.00

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932801

CHLORAMINES REDUCTION SYSTEMS

The Coldrink-MC2 System is ideal for fountain applications. The MC2 Cartridge is a quick-change solution that improves the taste of fountain beverages and helps retain the drink's carbonation.
The Coldrink-7CLM System is ideal for foodservice operations with high water usage for beverage and ice. The 7CLM Cartridge is a chloramine-reducing, quick-change solution which ensures that foodservice operators have clean, great tasting fountain beverages without the smell or taste of chemicals such as chloramines.
The Coldrink-7CLM+ has twice the capacity of the original CLM series and delivers extended service life with fewer change-outs.
The filter helps protect drink system seals, pump, tubing and small orifices from clogging, corrosion and abrasive wear.

- 20" prefilter reduces dirt and particulates
- Sanitary cartridge replacement is simple, quick and clean; internal filter parts are never exposed to handling or contamination

PENTAIR EVERPURE

Part No.	Description	Cartridge	Flow (GPM)	Application Tanks/Carbonators	Ship Wgt (Lbs.)
932801*	Single System, Coldrink	MC[2] (1 each), EC210	1.67	<25/1	27.1
932802*	Twin System, Coldrink	MC[2] (2 each), EC210	3.34	<50/1	23.00
977122*	Twin System, Coldrink	7CLM+ (2 each), EC210	3.34	N/A	25.50
932803*	Triple System, Coldrink	MC[2] (3 each), EC210	5.00	<75/3	61.7
977123*	Triple System, Coldrink	7CLM+ (3 each), EC210	5.01	N/A	30.40
932873*	Triple System, Coldrink	7FC (3 each), EC210	7.50	N/A	36.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PENTAIR


961255

FOUNTAIN CARTRIDGE

Class 1 taste and odor, chlorine reduction, particulate and cyst reduction.
MC adds an effective bacteriostat to the filter media

- Capacity at 1.67 gallons/minute

PENTAIR EVERPURE

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
961255*	MC[2], 1/2 Micron	9,000	8.4
961310*	XC[2], High Capacity MC[2], 1/2 Micron	12,000	0.2
962832*	XC[2], High Capacity MC[2], 1/2 Micron (2 Cartridge Kit)	12,000	16.2
997042*	Tripple-MC Kit: (1) EC210, (3 each) MC, (1) SS-IMF w/Spacer	27,000	7.60
962828*	Quad-MC Kit: (1) EC210, (4each) MC[2], (1) SS-IMF w/Spacer	36,000	8.5
962829*	Quad-XC Kit: (1) EC210, (4 each) XC, (1) SS-IMF w/Spacer	48,000	10


433910

CLARIS COFFEE SYSTEM

The CLARIS water filter family is a modular filter cartridge system, consisting of a unique multifunctional connection head and a combination of filter cartridges designed for the specific equirements of equipment in the commercial market. Thanks to its compact dimensions and the sophisticated multi-valve connection head, the system can be installed and operated almost anywhere, free standing, mounted or in a vertical or horizontal position.

Ideal for producing high quality hot beverages as well as iced tea and steam applications.

Adjustable ion-selective filter to tailor carbonate hardness levels in potable water.

DuoBlend by-pass technology for the precise adjustment of carbonate hardness

- Micron rating: 5.00
- Working pressure: 29 - 116 psi
- Maximum temperature: 39 - 86°F

PENTAIR EVERPURE

Part No.	Description	Flow (GPM)	Capacity (Gal.)	Height (In.)	Diam-eter (In.)	Ship Wgt (Lbs.)
433910*	Claris Cartridge, Small	0.5 max	396 180 ppm	50.39	3.74	1.7
433911*	Claris Cartridge, Medium	0.5 max	660 180 ppm	45.67	3.74	2.3
433912*	Claris Cartridge, Large	1 max	1100 180 ppm	67.32	5.35	2.8

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Part No.	Description	Flow (GPM)	Capacity (Gal.)	Height (In.)	Diam-eter (In.)	Ship Wgt (Lbs.)
433913*	Claris Cartridge, XLarge	1 max	1585 180 ppm	57.48	5.35	3.4
433983*	Claris cartridge, Ultra XXlarge	1.0	2,641 (Espresso) 3,196 (Coffee) @ 180 ppm	18.56	5.35	9.50
433984*	Claris cartridge, Ultra XXlarge	1.0	4,358 (Espresso) 5,283 (Coffee) @ 180 ppm	18.56	6.89	14.30
433980	EVERPURE CLARIS ULTRA CARTRIDGE 250	.5 Max	594-660 180 PPM	12.39	3.75	2.90

COFFEE SYSTEM

High capacity 1/2 micron precoat filtration with scale control. For low flow, low/medium volume brewers.

PENTAIR EVERPURE

Part No.	Description	Car-tridge	Flow (GPM)	Capacity Pots/Gallon	Height (In.)	Ship Wgt (Lbs.)
927560*	QL2-OCS, Scale Inhibitor	OCS (1)	0.5	3,000/1,500	12.75	1.5
927200*	QL3-BH, Scale Inhibitor, Shut Off	BH (1 each)	0.5	6,000/3,000	16.50	2.1


961807

COFFEE CARTRIDGE

1/2 micron precoat filters rated for chlorine, taste and odor, dirt, asbestos, cyst reduction, and scale control.

- New and improved Micro-Pure II media with AgION™ anti microbial protection inhibits potential bacterial growth (961251, 961807, 961326 only)
- Capacity at 1/2 GPM

PENTAIR EVERPURE

Part No.	Description	Capacity (Gal.)	Height (In.)	Ship Wgt (Lbs.)
961807*	OCS[2], Scale Inhibitor	1,500	10.25	6.8
961251*	BH[2]	1,500	14.50	6.2
961326*	MH[2], Scale Inhibitor, Hi Flow/Volume	9,000	20.75	8.4
961100*	4H	3,000	14.50	6.9
961397	XC(2) Water Filter Cartridge, 6PK	12,000	25.00	10.4

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910067

COFFEE INLINE

Chlorine taste and odor reduction, limescale reduction. IN-10 for low volume, IN-12 for medium volume single pot coffee brewers

PENTAIR EVERPURE

Part No.	Description	Capacity (Gal.)	Height (In.)	Ship Wgt (Lbs.)
910067*	IN-6 Filter, 100% Phosphate For Scale Prevention Only	6 months	6.00	3.1
910006*	IN-10 Filter, Granular Activated Carbon With Scale Control, 1/4" John Guest fittings	2400	10.50	3
910008*	IN-10 Filter, Granular Activated Carbon With Scale Control, Less Fittings	2400	10.50	2.9
910007*	IN-12, High Capacity Granular Activated Carbon With Scale Control	4800	12.00	4.4
910086*	IN-12 Filter, High Capacity Granular Activated Carbon With Scale Control, 1/4" John Guest Fittings	4800	10.50	5


932974

HIGH FLOW SYSTEM COMBINATION

High flow systems with prefilter for fountain beverage, coffee and ice machine combinations. Includes inlet/outlet gauges, flushing valve, water shut-off, 20" prefilter, ice maker feeder, and cartridges. High flow CSR system handles to 4 carbonators with a 4 pot brewer and 1,200 lb./day ice machine.

PENTAIR EVERPURE

Part No.	Description	Cartridge	Flow (GPM)	Capacity (Gal.)	Ship Wgt (Lbs.)
932974*	High Flow Quad CSR	7FC (4 each), EC210, SS-XL	10.0	100000	70
943710*	High Flow Quad CSR, Less Alarm	MC[2] (4 each), EC210, SS-IMF	6.7	36000	34
943711*	High Flow Quad CSR, With Alarm	MC[2] (4 each), EC210, SS-IMF	6.7	36000	68.4
934711*	High Flow Plus CSR, With Alarm, Surge Tank, Prefilter, Feeder	XC[2] (4 each), EC210, SS-IMF	6.7	36000	74.00
932805*	High Flow Triple, With Alarm	MC[2] (3 each), EC210, SS-IMF	5.7	27000	61.4
932806*	High Flow Triple, Less Alarm	MC[2] (3 each), EC210, SS-IMF	5.7	27000	61

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Part No.	Description	Cartridge	Flow (GPM)	Capacity (Gal.)	Ship Wgt (Lbs.)
977133*	High Flow CSR, Triple	7CLM (3 each), E-20, SS-IMF	5.01 / 4.0 / 3.0	22500 / 23500 / 37800	35.80
977134*	High Flow CSR, Quad	7CLM+ (4 each), E-20, SS-IMF	6.68 / 5.33 / 4.00	30000 / 38000 / 50400	38.30
933042*	High Flow CSR, Twin	MC[2] (2 each), EC210, SS-IMF	3.34	18000	61.1
977132*	High Flow CSR, Twin	7CLM (2 each), E-20, SS-IMF	3.34 / 2.66 / 2.00	15000 / 19000 / 25200	29.50



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PENTAIR



979750

STEAM SYSTEM

Systems for providing high quality water as well as deliming capability for steamers.
Use SR-X feeder with existing Everpure systems only.

PENTAIR EVERPURE

Part No.	Description	Cartridge	Flow (GPM)	Ship Wgt (Lbs.)
979750*	Counter Top, Evaporative Base System	4CB5 (1), SS-10, 2 x 0.5 Skalekleen	1.0	11.7
979721*	KleensteamII, Single	7CB5 (1), SS-10, 4 x 2.2 Skalekleen	1.67	26.00
979722*	KleensteamII, Double	7CB5 (2), SS-10, 4 x 2.2 Skalekleen	3.34	10.44
979740*	KleensteamII, Double (w/ out Feeder)	7CB5 (2)	3.34	13.33
979782*	SC10-11, Foodservice Steamer and Combi-Oven Applications	SS-10 Scalestick, CG5-10 Carbon Block	6.0	14.8
979720*	SR-X Scale Inhibitor Feeder and Deliming System	SS-10	6.0	5



997700

CONSERV® RO-75E

- System includes 4FC5 Pretreatment Carbon Filter, High Efficiency GRO-75EN RO Membrane Cartridge, onboard RO water storage tank, 4CC Post Treatment Calcite Feeder and blending valve to balance effluent water mineral content and 4CB5 Post Carbon Filter Cartridge
- Designed for espresso, combined espresso and ice applications as well as select coffee machines and for applications requiring up to 50 gpd
- With a blending valve, you can adjust to the right balance of minerals for optimal ingredient water for espresso machines and more
- Provides protection against off-taste & odor while removing particulates and dissolved solids

PENTAIR EVERPURE

Part No.	Description	Cartridge	Production Rate (GPD)	Ship Wgt (Lbs.)
997700*	Conserv high efficiency, reverse osmosis system. For espresso and low volume brewing applications.	GRO-75EN, 4FC5-S, 4CB5	50.0	51.50



997520

CONSERV® LT-S

- Ideal for use in coffee and low volume applications such as point-of-use water coolers, cheese melters and other evaporative equipment that is not emptied on a daily basis and for applications requiring up to 50 gpd
- Features a blending valve to provide the right balance of blended water for steam applications
- Wall mount installation
- Helps equipment heating surfaces maintain peak transfer efficiency, reducing cycle times and energy consumption
- Water /mineral blending occurs in the storage tank resulting in greater consistency
- 4 gallon storage tank included

PENTAIR EVERPURE

Part No.	Description	Production Rate (GPD)	Ship Wgt (Lbs.)
997520*	Conserv high efficiency, reverse osmosis system. For combi ovens, steamers and proofers	70.0	30.00



997008

REVERSE OSMOSIS

- Configurable system that delivers reverse osmosis or blended water for multiple foodservice applications
- Guards against taste and odor causing contaminants while removing dirt, particulates and dissolved minerals that can adversely affect taste of water and beverages
- Sanitary cartridge replacement is simple, quick and clean. Internal filter parts are never exposed to handling or contamination
- Wall mount design allows flexible installation
- Reduces limescale build-up that can cause excessive machine downtime and increased maintenance costs.
- Temperature range: 40° to 100°F
- Inlet outlet size: 3/8”
- Operating weight: 35 Lbs
- The BL series features an adjustable blend valve, which allows custom tailoring of the dissolved mineral content in the treated water.

PENTAIR EVERPURE

Part No.	Description	Cartridge	Ship Wgt (Lbs.)
997008*	MRS-225 Reverse Osmosis System, 115/1/60	6TO-BW, MR-225, 7CC-BW, P5	30.00
997020*	MRS-350 Reverse Osmosis System, 115/1/60	7TO-BW, MR-350, BW-4400, P5	32.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


34679

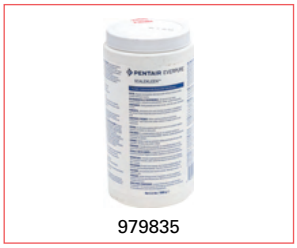
ROMATE® STORAGE TANK

A hydropneumatic tank for storing and siapensing reverse osmosis (RO)/high purity water.

- 100% seamless composite construction
- 100% lead-free design
- Produced using NSF® and/or FDA listed materials
- Built-in union connection
- Superior corrosion resistance
- Will not introduce chemicals or elements into water
- Easy to install and service
- Maximum Operating Pressure: 125 psi, non-shock
- Pre-Charge Pressure Requirements: 5 - 50 psi, typical
- Maximum Operating Temperature: 120°F

PENTAIR EVERPURE

		Dimensions (In.)			
Part No.	Capacity (Gal.)	H	W	D	Ship Wgt (Lbs.)
34679*	4.3	28.50	16.25	16.00	20.00
34680*	5.8	33.00	16.00	16.00	21.00
34683*	17.7	43.50	24.50	24.00	55.00


979835

SCALE REMOVER

Cartridge can be used for Scalekleen™ or other sanitizing agents to insert into all water using appliances via an existing Everpure filter head.

PENTAIR EVERPURE

Part No.	Description	Ship Wgt (Lbs.)
979835*	Scalekleen™, English/Spanish	3.1
979833*	Scalekleen™, English/Spanish/French	4.9
960800*	Sanitizing (Chargeable) Cartridge	1.4


979902

SCALESTICK™

The ScaleStick™ scale control system from Everpure features HydroBlend™, a unique, specially blended compound developed to inhibit mineral scale deposits and provide corrosion protection in water fed food service equipment. Specifically designed for use in low flow water applications, dispensing a controlled amount of treatment for long-term protection.

PENTAIR EVERPURE

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
979902*	SS-10, All Applications	6 GPM, 6 Months	2.5
979932*	SS-IMF Cartridge, Ice Machines	6 GPM, 6 Months	2.1
979942*	SS-XL Cartridge, Ice Machines	6 GPM, 12 Months	13.6


927570

DRINKING WATER SYSTEM

QL2-OW200L, drinking water system. 1/2 micron precoat filter for chlorine, taste and odor, dirt, asbestos and cyst reduction with lead and total trihalomethane reduction. For bottleless water coolers and drinking fountains.

- Capacity: 480 gallons

PENTAIR EVERPURE

		Dimensions (In.)				
Part No.	Description	W	H	Flow (GPM)	Capacity (Gal.)	Ship Wgt (Lbs.)
927570*	QL2-OW200L, Drinking Water System	4.25	19.00	.5	480	2.3


979911

SCALE CONTROL SYSTEM

For warewashers and booster heaters. Inhibits limescale build-up and reduces corrosion. Features metering flow through head, high temperature housing and transparent HT-10 cartridge containing Hydroblend® compound effective up to 200°F, 15 gpm. Max Feeder Inlet Temperature 170°F.

- No electrical connection required
- Inlet Outlet Size: 3/4" FNPT

PENTAIR EVERPURE

Part No.	Description	Flow (GPM)	Ship Wgt (Lbs.)
979911*	Kleenware HTS-11 System	15	5.4


650020

DIGITAL POCKET TDS METER

- Reading hold function
- With soft case

PENTAIR EVERPURE

Part No.	Description
650020*	0-9990 ppm TDS; Temperature Reading (0-80°C);

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PENTAIR

COLD/INSURICE MANIFOLD

- Filtration and pre-filtration
- Includes: shut-off valve, mounting bracket, flushing valve, pressure gauges
- 3/4" NPT Inlet x 3/8" NPT Outlet

PENTAIR EVERPURE

Part No.	Description
929301*	Single 10" PF Manifold
929302*	Twin 10" PF Manifold
929303*	Triple 10" PF Manifold
929304*	Quad 10" PF Manifold
929321*	Single 20" PF Manifold
929322*	Twin 20" PF Manifold
929323*	Triple 20" PF Manifold
929324*	Quad 20" PF Manifold



927241

HEAD ASSEMBLY

Parallel plumb head(s) with shutoff, flushing valve for multiples, and outlet pressure gauge. Use QC heads with MC, XC, MH, I-2000, 4000, 7K, XK, 7CB5 cartridge. Use QL heads with OCS, BH, 2K+, 4K+, 2CB5, 4CB5 cartridge.

PENTAIR EVERPURE

Part No.	Description
927241*	QC7I-Single
927222*	QC7I-Double
927223*	QC7I-Triple
925620*	QL1-Single Filter Head, 1/4" John Guest Fitting, Less Shutoff
925617*	QL1-Single, 3/8" John Guest Fitting, Less Shutoff
927218*	QL2-Single, Less Shutoff
925924*	QL3B-Single, w/ shutoff and bracket
925914	QL3 Single Filter Head



306818

COMPONENT REPLACEMENTS

PENTAIR EVERPURE

Part No.	Description
306818*	Outlet Gauge
307019*	Bowl, K-10
15319506*	Bowl, Clear, E-20 or SR-X
15319406*	Bowl, Clear, E-10 or SR-X
15319606*	Bowl, Black, E-10 or SR-X
150467*	Big Blule Housing for 20" H X 4 1/2" diameter cartridges, 3/4" FPT
150233*	Big Blue Housing for 20" H X 4 1/2" diameter cartridges, 1" FPT
308165*	IMF Bowl
307119*	Bowl O-Ring, K10, K20, IMF
151120*	O-Ring 241, E-Series or SR-X
933650*	Surge Tank Kit
302705*	Low Pressure Alarm
311409A*	Gauge, 1/8 NPT Bottom Mount
15498106*	Black Head, E-Series or SR-X Systems
153018*	Clear Housing Bowl, 10"



960651

PROBLEM CARTRIDGE

These cartridges address specific water problems. The 7 Series cartridges should be used in a twin head system with a regular fine filter. 978110, 978112 fit Cuno 8000 Series heads. 960720 (ESO) cartridge designed specifically for coffee, expresso and iced tea applications

PENTAIR EVERPURE

Part No.	Flow (GPM)	Description	Capacity
960651*	0.5	4SI Slime Reduction Cartridge, for Ice Machines	15000 gal
960702*	0.5	7NE, acidic (low pH) water, buffering, 0.50 gpm	30000 gal30000 gal
960703*	0.5	7OF - Iron, Sulfur-Low Volume	1000 ppm
960704*	1.5	7SO - Hard Water-Low Volume	2000 grain
960705*	0.5	7TO - Replacement Cartridge	30000 gal
960756*	1.67	7TO - Extreme T & O, High Capacity	30000 gal
960701*	1.67	DM - High Mineral, Low Volume	1600 grain
960710*	1.67	ESO 6 Three-Stage Blending Cartridge	470 gal
960720*	1	ESO, Three-Stage Blending Cartridge	4400 grain
960725*	2.5	ESO 7 Three-Stage Blending Cartridge	600 gal
960741*	0.5	6TO-BW Replacement Cartridge	24000 gal
961906*	0.5	OW200L - T & O, Drinking Water	480 gal

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Flow (GPM)	Description	Capacity
961716*	0.2	4CB5, 5µ, Carbon,T & O	6000 gal
961726*	0.5	4CB5S, 5µ, Carbon,T & O, Scale	6000 gal
961736*	0.1	4CB5K, 5µ, Carbon,T & O, Bact.	6000 gal
961816*	1.5	7CB5, 5µ, Carbon,T & O	10000 gal
961826*	2.5	7CB5S, 5µ, Carbon,T & O, Scale	10000 gal
961836*	2.5	2CB-GW, Carbon,T & O	3000 gal
4002575*	2.5	GRO-75EN, use with LVRO-75HE/ Conserv 75S/Conserv 75E/Conserv LT-S, reverse osmosis	75 GPD
927369*	2.5	MR-20, Use with MRS20, Reverse Osmosis	21 GPD
962703*	2.5	MR-225, Use with MRS225/225CC/ COMBI, Reverse Osmosis	225 GPD
962711*	2.5	MR-100, Use with MRS100/100CC, Reverse Osmosis	100 GPD
962745*	2.5	4CC, use with Conserv 75S/Conserv75E/ Conserv LT-S, reverse osmosis	0.5 GPM
962705*	2.5	7CC-BW, Use with MRS100CC/225CC/350CC, Calcite Feeder, Reverse Osmosis	0.5 GPM
976100*	1.7	XCLM+,T & O, Chloramines, Particular, Chlorine (Use w/ QC7I, Coldrink®, High Flow CSR, QL2, QL3B and QL3 Heads)	9300 gal
977100*	1.67	7CLM+, 5µ,T & O, Chloramines, Particular, Chlorine	7500 gal
969221*	1.5	Use with Coldrink, QC7I, QL2, QL3B, QL3 Heads, and High Flow CSR manifolds.	15000 gal
969186*	1.5	2FC5-S, carbon pre-filter, coffee/ice, LVRO-75HE, 6,000 gal. capacity	6000 gal
969340*	0.1	7FC-L, Fibredyne™ II media,T & O, use with Coldrink, QC7I, QL2, QL3B, QL3 Heads, and High Flow CSR manifolds	7400 gal
969176*	2.0	2FC-S, Fibredyne™ II media,T & O, Bact., Chlorine, with Insurice, QC7I Single, QL1, and QL3B heads	6000 gal
969261*	0.5	Use with Coldrink, QC7I, QL2, QL3B, QL3 Heads, and High Flow CSR manifolds	25000 gal
EV969156*	0.5	2FC, Fibredyne™ II media,T & O, Bact., Chlorine, compatible with QC7I Single, QL1, and QL3B heads	6000 gal
969321*	0.5	Use with Coldrink, QC7I, QL2, QL3B, QL3 Heads, and High Flow CSR manifolds, Fountain and Combo Applications	15000 gal
927441*	0.5	H-300-NXT Replacement cartridge, reduces lead,T & O, lime, scale, rust, corrosion, cysts, pharmaceutical	300 gal
969331*	5	4FC5-S, Fibredyne™ II media with AgION®, ChlorineT & O, Bact. with Insurice, Insurice PF, QC7I, QL2, QL3B and QL3 Heads.	15000 gal
969361*	-	Use with Coldrink, QC7I, QL2, QL3B, QL3 Heads, and High Flow CSR manifolds	25000 gal
969231*	0.50	with Insurice, Insurice PF, QC7I, QL2, QL3B and QL3 Heads.	15000 gal
969271*	0.5	with Insurice, Insurice PF, QC7I, QL2, QL3B and QL3 Heads.	25000 gal
969371*	1.5	7FC5-S, Fibredyne™ II media with AgION®, ChlorineT & O, Bact. with Insurice, Insurice PF, QC7I, QL2, QL3B and QL3 Heads.	25000 gal
978110*	2.7	Cuno, EFS8002, 5µ, Carbon,T & O	10000 gal
978112*	5	Cuno, EFS8002S, 5µ, Carbon,T & O, Scale	10000 gal
910502*	0.5	CC1E Chloramine Reduction Cartridge	15000 gal
910534*	0.5	Water filter cartridge kit w/ (1) CC1E and (2) CC3E replacement cartridges	60000 gal

Continued on next page

Part No.	Flow (GPM)	Description	Capacity
969337	2.5	EVERPURE 4FC5-S CARTRIDGE, 5 Micron, 2.5 GPM, 15,000 Gallons	15000 gal15000 gal
4004424	-	EVERPURE GRO-50EN 1:1 RO MEMBRANE, 50 GPD	50 GPD
932891	2.5	Water Filter Cartridge Assembly, Single 7FC-S	25,000 Gal
969237	2.5	Water Filter Cartdrige Assembly, 4FC-S, 6pk	50 GPD

COSTGUARD

WATER FILTRATION AND TREATMENT

Costguard cartridges replace all major competitive slimline 10" and 20" bowl type cartridges and large diameter 4 1/2"-20" cartridges.CGSeries cartridges are NSF listed carbon filter cartridges for chlorine, taste and odor reduction. S suffix cartridges incoporate scale reducers for heating elements, evaporator plates and valves.



15524843

10" CARTRIDGE

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
15524843*	SR-10, Scale Reducer	18,000	3.84
910811*	CGT-10,T&O	5,000	1.50
910813*	CGT-10S,T&O, Scale	5,000	1.10
910815*	CG5-10, 5 Micron	6,000	0.50
910817*	CG5-10S, 5 Micron, Scale	6,000	1.10
910853*	CG53-10, Submicron	10,000	1.20
910857*	CG53-10S, Submicron, Scale	10,000	0.35

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

COSTGUARD

20" CARTRIDGE



15535843

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
15535843*	DGD 5005 Dual Density 50/5 Micron Pre-Filter Cartridge, 5 Micron	36,000	3.83
910542*	SO-20, Softener	-	3.70
910832*	CGT-20, T & O	10,000	2.40
910833*	CGT-20S, T & O, Scale	10,000	2.80
910825*	CG5-20, 5 Micron	12,000	1.90
910827*	CG5-20S, 5 Micron, Scale	12,000	1.20
910863*	CG53-20, Submicron	20,000	0.52
910867*	CG53-20S, Submicron, Scale	20,000	1.75

20", 4 1/2" DIAMETER CARTRIDGE



155360130

Part No.	Description	Capacity (Gal.)	Ship Wgt (Lbs.)
155360130*	EC-204, Prefilter, 10 Micron	18,000	1.60
910545*	SO-204, Softener	-	8.95
25549443*	ECP-204, Pleated, Hi Dirt, 5 Micron	-	10.00
15524943*	CGT-204, T & O	30,000	10.80
15558343*	CG5-204, 5 Micron	30,000	2.82
15531243*	CG53-204, Submicron	30,000	1.20

STANDARD 10"



910010

Part No.	Description	Ship Wgt (Lbs.)
910010*	CGS-10, Single Bowl	3.90
910012*	CGS-12, Twin Bowl	8.05
153049*	10" Filter Housing for 910010, White	0.80

STANDARD 20"



910020

Part No.	Description	Ship Wgt (Lbs.)
910020*	CGS-20, Single Bowl	7.31
910022*	CGS-22, Twin Bowl, Plumbed Series	12.00
910023*	CGS-23, Twin Bowl, Parallel	13.00
910050*	CGS-50, Triple Bowl	20.00

NU-CALGON

MICRO-PLUS®



4615W3

The complete treatment program for commercial ice makers, coffee urns and brewers, beverage makers and othe water-using equipment such as humidifiers, steamers and residential refrigerator ice makers.

Micro-Plus systems are designed and manufactured to eliminate or control the three primary water-related problems lime scale, silt and sediment (down to 20 microns), and objectionable tastes and odors. When properly sized, Micro-Plus will last for six months.

All units are constructed of NSF-approved polypropylene, and are tapped on each end with 1/4" FPT.

For taste and odor problems only on machines making up to 500 lbs of ice per day, use the Micro-Carbon 4

Part No.	Water Capacity (Gal/Day)	Ice Production (Lbs/Day)	Ship Wgt (Lbs.)
4615W3	12.5	125	0.10
4612W3	25.0	250	0.45
4613Y8	50.0	500	1.00
461724[1]	50.0	500	0.84
4614Y8	100.0	1000	1.45

1 Micro-Carbon 4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REPLACEMENT PARTS

DOOR FRAME HEATERS



BA088083

Part No.	Description	Ship Wgt (Lbs.)
BA088083	34" x 78" 3.3 Ohm SRG, 232" (Alum Braid Wire, Prior to May 1976)	0.19
BA089060	36" x 78", 3.3 Ohm SRG, 236" (Alum Braid Wire)	0.21
BA015835	48" x 84" 1.55 Ohm SRG, 356"	0.30
BA018291	60" x 84" 1.2 Ohm SRG, 404"	0.40

DOOR GASKET



BA016546

Part No.	Description	Ship Wgt (Lbs.)
BA016546	34" x 78" Magnetic Door Gasket	5.00
BA054117	36" x 78" Magnetic Door Gasket	5.00
BA016611	34" Wiper Gasket	0.47
BA054028	36" Wiper Gasket	0.89

DOOR HINGES



BA000230

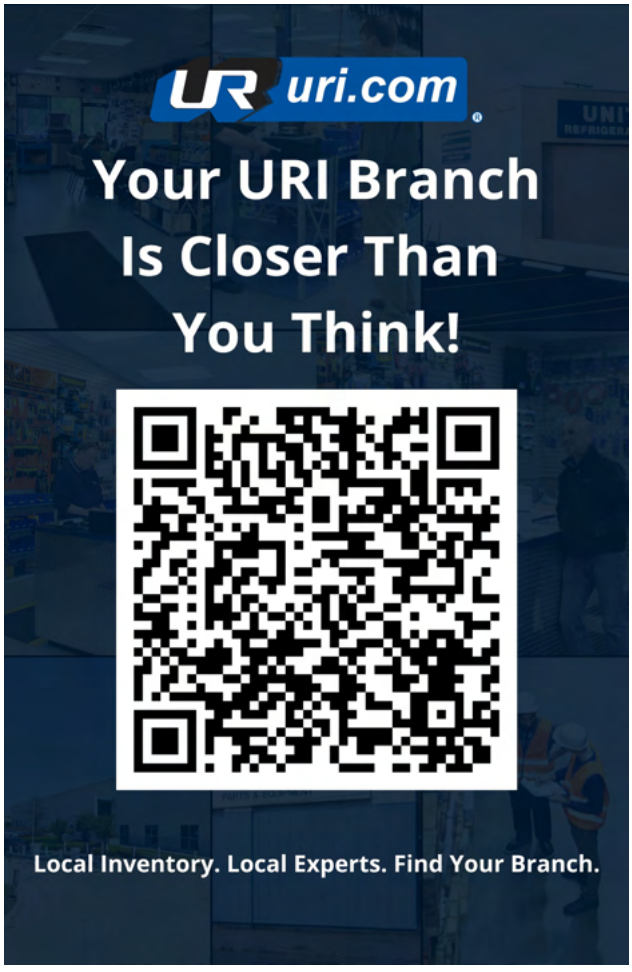
Part No.	Description	Ship Wgt (Lbs.)
BA000230	Reversible Hinge, Satin Finish	1.40
BA000231	Reversible Hinge, Polished Finish	15.00

DOOR CLOSERS



BA031349

Part No.	Description	Ship Wgt (Lbs.)
BA031349	V1600B Hydraulic Door Closer	2.11



STRIP CURTAIN

CURTAIN ASSEMBLY

Cooler Strip Material

Formulated for cooler as well as indoor/outdoor applications, withstanding temperatures from -10°F to +150°F. Our most versatile material. Will not discolor in sunlight.

Freezer Strip Material

Interior applications only due to material variations. Recommended for cooler/freezer applications. Meets requirements for food service operations and USDA inspected facilities. Remains flexible in temperatures as low as -40°F. Reinforced material utilizes nylon string extruded within material to prevent elongation or shrinkage due to temperature variations

Clear-Flex II® Strip Doors can be used for almost any application. When choosing strip sizes and overlaps, consider the following points:

- For taller doors, the strips should be heavier and wider
- Smaller width strips are easier to pass through than the wider strips
- When air movement is a problem, choose the wider strip with full overlap

6" material recommended for interior applications to 7' high openings

8" material recommended for interior applications to 10', exterior applications to 7' high openings



440040

CURTAIN ASSEMBLY

Max Bullet Mounting System

- 75% faster initial installation time, 90% faster strip replacement time
- Aluminum hardware won't rust or corrode
- One-piece system with (no nuts or bolts) eliminates cracks and crevices where dirt and bacteria accumulate
- .125" thick aluminum extrusion
- NSF Certified when freezer material utilized
- All listed systems are 40" wide, 84" long

ALECO E·S·ROBBINS

Part No.	Application	Strip Width (In.)	Thickness (In.)
440040	Cooler	6	0.060
440043	Cooler	8	0.080
440041	Freezer	6	0.060
440044	Freezer	8	0.080
440042	Freezer, Reinforced	6	0.060
440045	Freezer, Reinforced	8	0.080
440002	Cooler, Freezer	6	.08
402LA6063884SB	Cooler, Freezer	6	0.06



470006

REPLACEMENT STRIPS

- Strips are 84" long

ALECO E·S·ROBBINS

Part No.	Application	Strip Width (In.)	Thickness (In.)
470006	Cooler	6	0.060
470008	Cooler	8	0.080
472106	Freezer	6	0.060
472008	Freezer	8	0.080
472107	Freezer, Reinforced	6	0.060
472007	Freezer, Reinforced	8	0.080



402LA6066490

STRIP CURTAIN ASSEMBLIES

- Helps maintain temperature when the door is open.
- Helps reduce energy usage.
- Reduces frost and icing on evaporator.

KASON

Part No.	Description	Ship Wgt (Lbs.)
402LA6066490	64" x 90" w/6" Strips	20.00
402LA1124884	BALLY STRIP CURTAIN 48"X84" 12"STRIPS	28.00
402LA6060084	BALLY REPLACEMENT STRIP 6 X 84 W/ CLEATS	2.00

SELF-CONTAINED MERCHANDISERS



MD10

SPECIALTY MULTI-DECK MED TEMP MERCHANDISER

- Small footprint, high volume
- Full front accessibility to products
- All models ship from the factory with power cord connected NEMA 6-15 plugs
- Four 14-inch shelves adjustable to various positions
- Shelves can be slanted for display appeal
- Built-in shelf PTM assists with unit pricing
- Durable molded plastic case ends that resist scratching and dents
- CFC-free insulation
- Off time defrost ensures maximum operating efficiency
- Built-in electric condensate pan eliminates the need for external floor drains
- Integrated night cover
- Flow through panels provide maximum condensing unit ventilation
- Refrigerant: R134a
- Refrigeration load calculated at 20°F evaporation and 110°F condensing temperature

HUSSMANN

					Load (BTUH)		Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	A/C	L	D	H	Ship Wgt (Lbs.)
MD10*	1 1/4	208-240/1	10.3	15	4813	6201	39.00	33 5/8	77.00	368.00
MD10LED*[1]	1 1/4	208-240/1	10.3	15	4813	6201	39.00	33 5/8	77.00	368.00
MD14*	1 1/4	208-240/1	12.0	15	7376	7376	52.00	33 5/8	77.00	467.00

1 LED lights



SHM3

SPECIALTY HORIZONTAL MED TEMP MERCHANDISER

- Compact size offering maximum display area in minimum floor space
- Large front window and sides for increased product visibility
- CFC-free insulation
- Factory-installed power cord and on/off power switch
- Easy to clean interior
- Air curtain design with efficient honeycomb air discharge
- Automatic defrost
- Electronic controls with digital display
- Electric condensate pan; no drain required
- Slide-out condensing unit for easy serviceability
- Adjustable temperature control
- Refrigerant: R404A (SHM3), R134a (SHM4)
- Type II (80°F and 55% R.H.) certified
- Refrigeration load calculated at 20°F evaporation and 110°F condensing temperature

HUSSMANN

					Load (BTUH)		Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	A/C	L	D	H	Ship Wgt (Lbs.)
SHM3*	1/3	115/1	10.3	15	2300	3162	36.00	30 5/8	42 7/8	250.00
SHM4*	1/2	115/1	9.5	15	3535	4866	48.00	30 5/8	42 7/8	350.00



VRL3B

REACH-IN GLASS DOOR BOTTOM MOUNT LOW TEMP MERCHANDISER

HUSSMANN

					Load (BTUH)			Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	A/C	Number of Doors	L	D	H	Ship Wgt (Lbs.)
VRL3B*[1]	2 3/4	120/1/59	9.5	20	2900	4900	3	78.25	31.14	80.37	877.00
VRL2B*[2]	1	120/1/60	5.0	15	2100	3550	2	53.90	31.25	80.37	631.00
VRL1B*[3]	3/4	120/1/61	4.1	15	1025	2043	1	29.56	31.25	80.37	362.00

1 3-Glass Door 2 2-Glass Door 3 1-Glass Door

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF-CONTAINED MERCHANDISERS



VRM2B

REACH-IN GLASS DOOR BOTTOM MOUNT MEDIUM TEMP MERCHANDISER

HUSSMANN

					Load (BTUH)			Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	A/C	Number of Doors	L	D	H	Ship Wgt (Lbs.)
VRM2B*	1/4	120/1/61	2.5	15	1700	2100	2	53.90	31.14	80.37	566.00
VRM3B*	1/4	120/1/61	2.6	15	1920	2490	3	78.25	31.14	80.37	782.00
VRM1B*	1/4	120/1/61	2.2	15	884	1160	1	29.56	31.25	80.37	352.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HIGH VOLUME SERVICE DELI MERCHANDISER



NAV4

- Full size rear glass sliding doors provide viewing and easy access to displayed product
- One row 13-inch and one row 16-inch wire upper mezzanine shelves
- Type II (80°F and 55% R.H.) certified
- Standard one-inch leveling pods assist with installation
- Swivel, locking (2) casters are provided with each merchandiser and may be installed in place of the leveling pods
- Gravity coil increases product integrity for a longer display time
- Exterior rear receptacle with 3-amp fuse supplied for connecting a scale to rear of case
- One-inch interior floor drain is piped to the rear case exterior
- Standard floor grates protect case bottom and product displays placed in lower storage area
- Built-in cabinet drain with gas condensate pan for defrost water
- CFC-free insulation
- Height includes leveling pods
- Refrigerant: R134a
- NAV: straight glass
- NAVC: curved glass

HUSSMANN

					Load (BTUH)		Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	A/C	Number of Doors	L	D	H	Ship Wgt (Lbs.)
NAV4*	1/3	115/1	9.2	20	4280	2	51 5/16	35 1/2	45 5/8	505.00
NAV6*	1/3	115/1	12.8	20	4280	3	75 5/16	35 1/2	45 5/8	700.00
NAV8*	1/2	115/1	15.3	20	5690	4	99 5/16	35 1/2	45 5/8	890.00
NAVC4*	1/3	115/1	9.2	20	4280	2	51 5/16	35 1/2	45 5/8	505.00
NAVC6*	1/3	115/1	12.8	20	4280	3	75 5/16	35 1/2	45 5/8	700.00
NAVC8*	1/2	115/1	15.3	20	5690	4	99 5/16	35 1/2	45 5/8	890.00

SINGLE-DECK ISLAND LOW TEMP MERCHANDISER



ISFGG5DG

- Refrigeration load calculated at -30°F evaporation and 110°F condensing temperature

HUSSMANN

					Load (BTUH)		Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	A/C	L	D	H	Ship Wgt (Lbs.)
ISFGG5DG*	1	208-240/1	15.7	20	4280	8773	68 3/8	41 1/2	37 3/8	670.00
ISFGG10DG*	1 x 2	208-240/1	15.7 x 2	20 x 2	8560	17546	132.00	41 1/2	37 3/8	1340.00

SINGLE-DECK ISLAND MED TEMP MERCHANDISER



ISMGG5B

- Refrigeration load calculated at 10°F evaporation and 110°F condensing temperature

HUSSMANN

					Load (BTUH)	Dimensions (In.)			
Part No.	HP	Voltage	Amps	Fuse Amps	Refrigeration	L	D	H	Ship Wgt (Lbs.)
ISMGG5B*	1/2	115/1	15.9	20	2660	68 3/8	41 1/2	37 3/8	725.00
ISMGG10B*	1/2 x 2	115/1	15.9 x 2	20 x 2	5320	132.00	41 1/2	37 3/8	1450.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TRUE MANUFACTURING



0543783

• For a full list of True Parts, visit www.uri.com

HUSSMANN

Part No.	Description
0543783	Hussman Replacement Pin, Top Hinge, Reach In

BEVERAGE-AIR



312-142D

BEVERAGE-AIR

REACH-IN PARTS

Part No.	Description
312-142D*	Compressor 115/60, R134a, AE3425YAA1A
312-145D*	Compressor 115/60, R134a, AE3440YAA1A
312-143D*	Compressor 115/60, R134a, FOR SP60-24M
312-068D*	Compressor 115/60, R134a, TL4G
312-147D*	Compressor 115/60, R404A, AE2410ZAA1A
312-082D*	Compressor 115/60, R404A, AKA2425ZXA
302-881B	Compressor, RST64C1ECFA R404 115V, 2950 BTU
312-081D*	Compressor 115/60, R404A, Dual, AJB2433ZXA
312-089D*	Compressor 115/60, R404A, RFT32C1ECAA
312-184D*	Compressor, EMC3130
312-153D*	Compressor Embraco, EMI50UER R290
503-246B-01*	Ballast-Fulhman
50917201*	BRKR STP SIDE S1
713-051C-01*	Cabinet Breaker, Horizontal
713-051C-11*	Cabinet Breaker, Vertical
712-025D-02*	Cabinet Gasket 33.875", STF34
712-025D-03*	Cabinet Gasket STF49
712-025D-04*	Cabinet Gasket STF58
401-116AAA*	Flat Lock Cam
710-002C-01*	Cap-Corner Breaker, Gray
203-147A*	Capillary Tube, 0.031 ID x 0.081 OD X 72"
203-048A*	Capillary Tube, 0.036 ID x 0.087 OD X 120"
203-126A*	Capillary Tube, 0.036 ID x 0.087 OD X 84"
203-131A*	Capillary Tube, 0.042 ID x 0.092 OD X 96"
203-056A-A*	Capillary Tube, 0.042 ID x 0.093 OD X 120"
203-109A*	Capillary Tube, 0.042 ID x 0.093 OD X 68"
203-039A*	Capillary Tube, 0.049 ID x 0.099 OD X 132"
203-149A*	Capillary Tube, 0.049 ID x 0.099 OD X 144"
203-110A*	Capillary Tube, 0.049 ID x 0.099 OD X 72"

Continued on next page

Part No.	Description
203-150D*	Capillary Tube, 0.049 ID X 108"
203-148D*	Capillary Tube, 0.054 ID x 0.106 OD X 62.25"
401-216A-02*	Cartridge Hinge Assembly, Black
00C27S039D*	Complete Cart Assembly
405-012A*	Condenser Fan Blade, 7.75"
08B30S044D-01*	Condenser Pan Assembly
504-964B-01*	Condenser Pan Heater
502-295B*	Control Knob, Dial
502-147A*	Temperature Control
401-244B*	Cover Hinge Assembly
502-421B*	Defrost Termination Switch/Hi-Temp Cutout
502-171A*	Defrost Timer
30223L0212*	Door Gasket
703-963D-05*	Door Gasket
703-963D-11*	Door Gasket
712-012D-13*	Door Gasket 13.718 X 18.718
712-025D-01*	Door Gasket 15.313"
50674103*	Door Handle, Long
205-150A*	Drain Flange
703-963D-15*	Drawer Gasket
412-004D*	Drawer Slide, Heavy Duty, LH
412-005D*	Drawer Slide, Heavy Duty, RH
303-145A*	Catch-All Filter Drier C052S
303-126A*	Filter Dryer - R-12/134/404
502-137A*	Edgemount Hinge Switch
405-061A*	Evaporator Blade 5"
405-063A*	Evaporator Blade 6"
405-033A*	Evaporator Blade 8"
305-494D*	Evaporator Coil 20X4X3
305-499D*	Evaporator Coil 20X4X4
305-498D*	Evaporator Coil 30X4X4
305-496D*	Evaporator Coil 9X7X4
305-129C*	Evaporator Coil, 21" L x 7" H, 4" W
504-276B*	Face Heater, 115 V
501-183D*	Fan Motor 18W 115 Volt 3100 RPM
501-186D-01*	Fan Motor 20W 115 Volt 2400 RPM
501-186D-02*	Fan Motor 9W 115 Volt 1800 RPM
50674111*	Fastener Strike S1 Grill
303-225D*	Filter Drier
703-178A*	Flanged Bushing
50879502*	Gasket Door HD VRF
50879501*	Gasket Door LD VRF
712-024D-03*	Lid Gasket For SM58
515-301D-01*	Harness
515-134D*	Temperature Sensor/Harness Assembly
515-191D*	Harness Sensor LVR/LSR
515-302D*	Harness 1.5M C0000042
515-245D-120*	Harness 115 Volt/15A Plug
515-123D*	Sensor Harness
515-190D*	Sensor Harness
504-539B*	Heater Drain Tube 115 Volt
603-446A*	Hex Jam Nut 1/4-20 18-8 SS
411-048D-01*	Door Hinge Assembly, Spring Assist, Adjustable, Non-Lift Off
411-044D-01*	Door Hinge Assembly, Spring Assist, Non-Lift Off

Continued on next page

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Part No.	Description
03B03S019B*	Hinge Bracket Assembly, LH
401-835A*	Hinge Bracket Assembly, LH Top
03B03S020B*	Hinge Bracket Assembly, RH
401-833A*	Hinge Bracket LH Bottom
401-832A*	Hinge Bracket RH Bottom
401-834A*	Hinge Bracket RH Top
502-089A*	Hi-Temperature Cutout
502-500D*	Horizontal Display Board Assembly, KDT
401-546A*	Key #1454 For 401-049/226/274A
401-821B*	Key For 401-401A
00C10-083D-01*	Thermostatic Expansion Valve, Heater Insulation Service Kit
00C10S081D*	Canister/Adapter kit, R290, 13 Ounce
503-230B-02*	Fluorescent Lamp, Phillips 32W F32TG
503-235B*	Lamp Holder - T8
503-306D-01*	Led-Stickve 12", 24 Volt 3W
503-308D-01*	Led-Stickve 46", 24 Volt 11WLed-Stickve 46", 24 Volt 11W
503-305D-01*	Led-Stickve 8", 24 Volt 2W
11B30S019CBC*	Lid Divider Assembly
502-474D*	Magnetic Switch Assembly
501-184D*	Motor - Axial Fan, 115 Volt
501-158B-01*	Motor - Fan, 115 Volt
501-175D*	Evaporator Fan Motor, 115V, 60Hz, 9w, 1550 RPM
605-065D*	Mounting Clip, 45 Degree
401-242B*	Nylon Hinge Pivot Cam
313-037D*	Overload
313-047D*	Overload
313-046D*	Overload 830-10041
00A27-103C-04*	Pan Support
403-154A*	Pilaster 27/48 14.5"
401-972D*	Lift Assist Gas Piston
515-270D-01*	Power Cord 98"
503-299D-01*	Power Supply, LED Stick, 30W
50829316*	Sensing Probe w/Connector, Gray
50829311*	Sensing Probe w/Connector, White
604-167A*	Push On RetainerPush On Retainer
302-677A*	Start Relay
314-038D*	Start Relay for 8200MBJ75
314-057D*	Start Relay AE1004E-212-B4
314-058D*	Start Relay, Tec
502-433D*	Rocker Kill Switch
403-192A*	Roller Bearing
515-296D-02*	Sensor, New 974, Air, 196.85"
515-297D-01*	Sensor
515-299D-01*	Sensor
515-300D-01*	Sensor
515-296D-01*	Sensor 118.11"
515-299D-02*	Sensor PB691501 (196.85")
603-454B*	Spacer
303-143A*	Spring Loaded Dryer
317-023B*	Start Capacitor
603-330A*	Starwasher
50911012*	Switch Magnet
515-335D-035*	Temperature Probe Air Sensor
402-223B*	Thermometer, Vertical

Continued on next page

Part No.	Description
712-012D-04*	Top Gasket 27.84X7.98
401-850D-03*	Torpedo Spring Assembly
401-984D*	Torsion Spring
401-859D*	Wheel - Slider
703-782A*	Wicking
703-879A*	Wicking
703-982B-08*	Wicking Condensate Sp
712-012D-03*	Door Gasket, 29.125" x 66.75"



703-963D-02

- For a full list of Beverage Air parts, visit www.uri.com

BEVERAGE-AIR

Part No.	Description
703-963D-02*	Door Gasket SP/SUR27/60
703-963D-03*	Door Gasket SP/SUR48/72
703-736C*	Door Gasket RI18HGS
401-216A-01*	Cartridge Assembly, Chrome
703-444A*	Wicking Pad 2-1/2" X 6-3/4" X 1/8"



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TRAULSEN

REACH-IN PARTS



7016125801

Part No.	Description
7016125801	12" Adapter Bar
3442848400	Actuator
SK7006006500	Adjustable Wiper Assembly
3256020900	Blower assembly 2350 RPM 115V
3256020800	Blower assembly ECM 2350 RPM 115V
SER6020800	Blower Assembly ECM 2350 RPM 115V
3161017700	Breaker trip cap
3580898200	Clip Shelf Stainless Steel
3386003000	Fan Motor 4606N 115V
3386005400	Fan Motor C Frame 120V
3336043500	Food probe RBC
3416005000	Door Gasket, Magnetic, Snap-In
SVC6025600	Gasket 13" L X 9.5" W
3500510	Gasket 22" L X 20" W
3416027201	Gasket 22.15" L X 7.9" W
SVC6019702	Gasket 23.75" L X 21.625" W
3416008400	Gasket 25" L X 22" W
SVC6028800	Gasket 26.3" L X 20.35" W
SVC6028700	Gasket 26.5" L X 25" W
SVC6025700	Gasket 29.5" L X 22.75" W
SER0950000	Gasket 29.75" L X 23.75" W
SVC6005900	Gasket 59.88" L X 22.75" W
3416008300	Gasket 61" L X 23" W
SER1647300	Gasket 67.45" L X 29.25" W
SER2858300	Glide Hinge Assembly
3442848800	Hinge Cam White Nylon
3442848600	Hinge Cover
3582892442	Key
3581003900	Keyhole support
3586069100	LED Bulb T-6 1/2 (115V)
3373085800	Light Cover, Flush Mount
SER1318642	Lock & Key
3581318900	Lock Bolt
SK9006088300	Motor/Blade & Bracket Assembly 115V
3582475901	Pin Shelf Hex Head
3582475902	Pin Shelf Hex Head #12 Type AB
3372823500	Plunger Switch Hinge
4615000	Propylene, 0.5 Gallon, Dynalene 35% with Blue Dye
3586061900	Rivet 1/8 POP SS Q45-4600
3346040601	Temperature sensor (Blue) 48"
3346040603	Temperature sensor (Blue) 96"
3346040501	Temperature sensor (Green) 48"
3346040503	Temperature sensor (Green) 96"

Continued on next page

Part No.	Description
3346040701	Temperature sensor (Yellow) 48"
3346040702	Temperature sensor (Yellow) 74"
3373107500	Thermal Fuse G5AP0200128C
3256008025	Thermostatic Expansion Valve, TXV, AA1/8SW35 R-404A
3511582207	Thumb Screw #12 Type AB NO CLR
SER6024800	Undercounter Hinge Kit
3402600000	Wire Shelf, Chrome, 26.38" L X 24.5" W
3402600002	Wire Shelf, Epoxy, 26.25" L X 24.5" W
3406007402	Wire Shelf, Epoxy, 26.38" L X 23.5" W
3406017902	Wire Shelf, Epoxy, 29.25" L X 22.5" W



SVC6006000

- For a full list of Traulsen parts, visit www.uri.com

Part No.	Description
SVC6006000	Gasket 29.375" L X 22.625" W
3346040602*	Temperature sensor (Blue) 74"
3346040502*	Temperature sensor (Green) 74"



REACH-IN EDGEMOUNT LATCH


0170000008

MAGNETIC

- Material/finish: high pressure die-cast zinc body and adjustment plate, chrome finish; glass reinforced composite handle; steel strike, chrome finish
- Drilled and countersunk for No. 10 screws
- Overall dimension: 10 17/32"L x 1 1/8"W x 2 7/8"H

KASON

Part No.	Description	Finish	Color
0170000008	Latch, Strike; Offset Handle	Chrome	Black
0170S00008	Latch, Strike; Straight Handle	Chrome	Black


0172000006

MAGNETIC MECHANICAL

- Material/finish: high pressure die-cast zinc body, handle and strike, steel strike pin; chrome finish
- Drilled and countersunk for No. 10 screws
- Overall dimension: 10 17/32"L x .96"W x 1 5/8"H

KASON

Part No.	Description	Finish
0172000006*	Latch, Strike; Straight Handle	chrome finish
0172B00006*	Latch, Strike; Offset Handle	chrome finish
0172BC0006[1]	Latch, Strike; Offset Handle	chrome finish
0172C00006*[1]	Latch, Strike; Straight Handle	chrome finish
0172CM0004	Cylinder Lock Kit w/Key	chrome finish
0172000002*	Strike Plate Only	chrome finish

1 w/Cylinder Lock


0171000004

MAGNETIC

- Material/finish: high pressure die-cast zinc body, adjustment plate and straight or offset handle; steel strike; chrome finish
- Drilled and countersunk for No. 10 screws
- Overall dimension: 11 1/2"L x 1 1/8"W x 2"H

KASON

Part No.	Description	Finish
0171000004*	Latch, Strike; Straight Handle	Chrome
0171B00008*	Latch, Strike; Offset Handle	Black
0171BC0008*[1]	Latch, Strike; Offset Handle	Black
0171C00004*[1]	Latch, Strike; Straight Handle	Chrome
0171CM0004*	Cylinder Lock Kit w/Key	Chrome

1 Lock


0173000004

MECHANICAL

- 0173 can replace competitive latch
- Material/finish: high pressure die-cast zinc body, adjustment plate and handle; chrome finish; steel strike
- Drilled and countersunk for No. 10 screws
- 0173: latch body with universal strike; adjustment 9/32"to 19/32"
- 0174: latch body with standard strike; adjustment 13/32"to 23/32"
- Overall dimension: 10 1/2"L x 1"W x 1 15/16"H

KASON

Part No.	Description	Finish	Comments	Strike
0173000004*	Latch, Strike; Straight Handle	chrome finish; steel strike	Non-Locking	Universal
0173B00004	Latch, Strike; Offset Handle	chrome finish; steel strike	Non-Locking	Universal
0173BC0004*	Latch, Strike; Offset Handle	chrome finish; steel strike	Lock	Universal
0173C00004	Latch, Strike; Straight Handle	chrome finish; steel strike	Lock	Universal
0174000004*	Latch, Strike; Straight Handle	chrome finish; steel strike	Non-Locking	Standard
0174B00004	Latch, Strike; Offset Handle	chrome finish; steel strike	Non-Locking	Standard
0174BC0004	Latch, Strike; Offset Handle	chrome finish; steel strike	Lock	Standard
0174C00004	Latch, Strike; Straight Handle	chrome finish; steel strike	Lock	Standard
0174C00012	Cylinder Lock Kit w/Key	chrome finish; steel strike	-	Standard
0174000008*	Strike Plate Only	chrome finish; steel strike	-	Standard

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REACH-IN EDGEMOUNT LATCH


0531000004

TRIGGER ACTION MECHANICAL

- Material: high pressure die-cast zinc body and strike housing, solid brass handle, strike insert and tongue
- Finish: polished chrome
- Strike: two-way adjustable
- Drilled and countersunk for No. 10 screws
- Overall dimension: 10 11/16"Lx 1 1/8"W x 15/16"H

KASON

Part No.	Description	Finish	Strike
0531000004	Latch, Strike; Straight Handle	polished chrome	two-way adjustable
0531B00004	Latch, Strike; Offset Handle	polished chrome	two-way adjustable
0531BC0004[1]	Latch, Strike; Offset Handle	polished chrome	two-way adjustable
0531C00004[1]	Latch, Strike; Straight Handle	polished chrome	two-way adjustable
0531CM0004	Cylinder Lock Kit w/Key	polished chrome	two-way adjustable

1 w/Cylinder Lock


0533D00004

MECHANICAL

- Material: high pressure die-cast zinc body, handle and strike; solid brass tongue
- Finish: polished chrome
- Strike: two-way adjustable
- Drilled and countersunk for No. 10 screws
- Overall dimension: 9 5/16"L x 1"W x 1 29/32"H

KASON

Part No.	Description	Finish	Comments	Strike
0533D00004*	Latch & Strike	Polished Chrome	Padlockable	Two-way adjustable
0533000016	Latch Only	Polished Chrome	Padlockable	Two-way adjustable
0533D00024	Strike Only	Polished Chrome	Padlockable	Two-way adjustable


0538000004

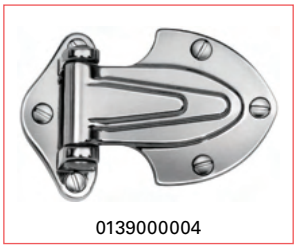
MECHANICAL

- Material: high pressure die-cast zinc body, handle and strike; solid brass tongue
- Finish: polished chrome
- Strike: two-way adjustable
- Drilled and countersunk for No. 10 screws
- Overall dimension: 10 11/16"L x 1"W x 1 29/32"H

KASON

Part No.	Description	Finish	Comments	Strike
0538000004	Latch and Strike	Polished Chrome	Padlockable	Two-way adjustable
0538C00004*	Latch and Strike	Polished Chrome	w/Cylinder Lock	Two-way adjustable
0538CM0004	w/Key	Polished Chrome	Latch and Strike	Two-way adjustable

REACH-IN SURFACE MOUNT HINGE

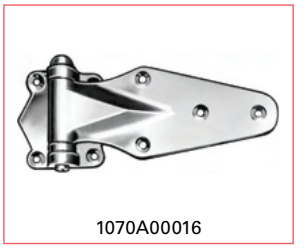

0139000004

NARROW FLANGE

- Material: high pressure die-cast zinc, stainless steel pin
- Finish: polished chrome
- Drilled and countersunk for No. 8 screws
- Wall flange: 3 1/16"W x 1 13/32"L
- Strap: 2"W

KASON

Part No.	Offset (In.)
0139000004	Flush
0139000012	1/4
0139000016	3/8
0139000024	5/8
0139000028	3/4
0139000032	7/8
0139000036	1
0139000040	1 1/8


1070A00016

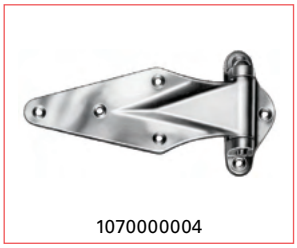
NYLON BEARING

- Material: high pressure die-cast zinc flange and strap; stainless steel loose pin with nylon bearing washer
- Finish: polished chrome
- Drilled and countersunk for No. 8 screws
- Wall flange: 2 9/32"W x 2 5/32"L
- Strap: 2"W

KASON

Part No.	Offset (In.)
1070A00016	7/8
1070A00024	1 1/8

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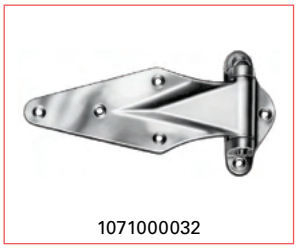

1070000004

NARROW FLANGE

- Material: high pressure die-cast zinc, stainless steel pin
- Finish: polished chrome
- Drilled and countersunk for No. 8 screws
- Wall flange: 3 1/16"W x 1 13/32"L
- Strap: 2"W

KASON

Part No.	Offset (In.)
1070000004	Flush
1070000008	1/8
1070000012*	1/4
1070000016*	3/8
1070000024	5/8
1070000028	3/4
1070000032	7/8
1070000036	1
1070000040	1 1/8

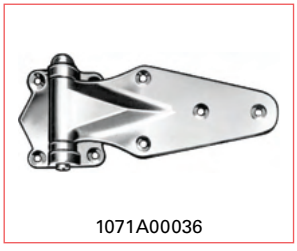

1071000032

LARGE NARROW FLANGE

- Material: high pressure die-cast zinc flange and strap; stainless steel pin
- Finish: polished chrome
- Drilled and countersunk for No. 10 screws
- Wall flange: 3 23/32"W x 1 7/32"L
- Strap: 2 3/8"W

KASON

Part No.	Offset (In.)
1071000032	7/8
1071000040	1 1/8


1071A00036

LARGE NYLON BEARING

- Material: high pressure die-cast zinc flange and strap; stainless steel loose pin with nylon bearing washer
- Finish: polished chrome
- Drilled and countersunk for No. 10 screws
- Wall flange: 2 13/16"W x 2 5/32"L
- Strap: 2 3/8"W

KASON

Part No.	Offset (In.)
1071A00036	7/8
1071A00044	1 1/8

REACH-IN EDGEMOUNT HINGE


0211000001

SLIMLINE/LIGHTWEIGHT DOOR

- Material: high pressure die-cast zinc
- Finish: polished chrome
- Adjustment range: 3/16"
- Overall length: 4 17/32"
- Width: 7/8"

KASON

Part No.	Description	Offset (In.)
0211000001*	Hinge Strap & Flange	1 1/8
0211000002*	Cover & Adjustment Plate	-


0212000004

ADJUSTABLE

- Material: high pressure die-cast zinc flange and adjustment plate, steel strap, brass cover
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 5"
- Width: 1 1/16"

KASON

Part No.	Offset (In.)
0212000004*	7/8
0212000008	1 1/8
0212000012	1 3/8


0213000004

STANDARD

- Material: high pressure die-cast zinc flange, steel strap, brass cover
- Finish: polished chrome
- Drilled and countersunk for No. 10 screws
- Overall length: 5"
- Width: 13/16"

KASON

Part No.	Offset (In.)
0213000004	7/8
0213000008	1 1/8
0213000012	1 3/8

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REACH-IN EDGEMOUNT HINGE


0214000004

ADJUSTABLE

- Material: high pressure die-cast zinc flange and adjustment plate, steel strap, brass cover
- Finish: polished chrome
- Adjustment range: 1/8"
- Overall length: 5"
- Width: 13/16"

Part No.	Offset (In.)
0214000004	7/8
0214000008	1 1/8
0214000012	1 3/8


0215000004

ADJUSTABLE CAM RISE

- Material: high pressure die-cast zinc strap, flange and adjustment plate, brass cover; self-lubricating nylon reversible cam, Oilite bearing, stainless steel pin
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 4 3/8"
- Width: 1 5/32"

Part No.	Description
0215000004	Cam Rise Adjustable Hinge
0215003610015C	Hinge Cover


0217000004

ADJUSTABLE

- Material: high pressure die-cast zinc flange and adjustment plate, steel strap, brass cover
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 5 3/4"
- Width: 1 1/8 "

Part No.	Description	Offset (In.)
0217000004	Adjustable Hinge	7/8
0217000008	Adjustable Hinge	1 1/8
0217000012*	Adjustable Hinge	1 3/8
0217S00008	Adjustable Hinge, w/Stop	1 1/8
0217S00012	Adjustable Hinge, w/Stop	1 3/8
0217003610015C	Hinge Cover Only	N/A


0218000004

ADJUSTABLE SPRING

- Material: high pressure die-cast zinc flange, adjustment plate and spring cartridge, steel strap; chrome
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 5 3/4"
- Width: 1 1/8"

Part No.	Description	Offset (In.)
0218000004	Adjustable Spring Hinge	7/8
0218000008*	Adjustable Spring Hinge	1 1/8
0218000012*	Adjustable Spring Hinge	1 3/8
0218000028*	Spring Cartridge Only	N/A


0220000012

ADJUSTABLE SPRING

- Material/finish: high pressure die-cast zinc flange and adjustment plate, steel strap, polished chrome plated brass cover. Spring kit included.
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 5 3/4"
- Width: 1 1/8"

Part No.	Description	Offset (In.)
0220000012	Adjustable Spring Hinge	1 3/8
0220000027	Spring Cartridge Only	N/A


1216000001

ADJUSTABLE CONVERTIBLE

- Material: high pressure die-cast zinc flange and adjustment plate, steel strap, stainless steel cover. Order spring kit separately for self-closing applications.
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 12 screws
- Overall length: 5 1/16"
- Width: 31/32"

Part No.	Description	Offset (In.)
1216000001	Adjustable Hinge	1 1/8
1216000027*	Spring Cartridge Only	N/A



1247000002

ADJUSTABLE CAM RISE

- Material: high pressure die-cast zinc flange, strap and adjustment plate, brass cover,steel pin
- Finish: polished chrome
- Adjustment range: 3/16"
- Drilled and countersunk for No. 10 screws
- Overall length: 6 3/8"
- Width: 1 1/8"

KASON

Part No.	Offset (In.)
1247000002*	1 1/4 to 1 5/8
1247000004*	1 3/4 to 2 3/8

WALK-IN HEAVY DUTY LATCH



0051S00002

CYLINDER LOCKING

Stationary cylinder lock and micrometer strike for positive offset adjustments.

- Material: high pressure die-cast zinc body, steel tongue, forged brass handle and strike housing
- Finish: polished chrome
- Commonly used on dairy and ice cream trucks
- Drilled and countersunk for 1/4" flat head screws
- Latch dimension: 7 9/16"L x 3 3/16"W
- Strike dimension: 2 1/4"L x 3 7/32"W

KASON

Part No.	Description	Finish	Offset (In.)
0051S00002	Latch and Strike	polished chrome	-1/4 to 1/8
0051S00008	Latch and Strike	polished chrome	Flush to 1/2
0051S00012	Latch and Strike	polished chrome	3/4 to 1 1/4
0051S00006	Latch Only	polished chrome	-



0052000004

IRON PADLOCKING

Bolt-action with padlock provision.

- Material: cast iron body and strike housing, malleable iron handle
- Finish: Kasonized
- Drilled and countersunk for 1/4" screws
- Latch dimension: 7 3/4"L x 3 1/2"W
- Strike dimension: 2 1/4"L x 3 1/2"W

KASON

Part No.	Description	Finish	Offset (In.)
0052000004	Latch and Strike	Kasonized	-1/8 to 5/16
0052000012*	Latch and Strike	Kasonized	3/4 to 1 3/8
0052000076	Latch Only	Kasonized	-
0052000084	Strike Only	Kasonized	-1/8 to 5/16
0052000092	Strike Only	Kasonized	3/4 to 1 3/8



0053000004

IRON PADLOCKING

Same as 0052 above, but with a larger body.

- Latch dimension: 9 15/16"L x 4 3/8"W

KASON

Part No.	Description	Offset (In.)
0053000004	Latch and Strike	-1/4 to 1/8
0053000008*	Latch and Strike	15/16 to 1 5/8
0053000052	Latch Only	-
0053000064*	Strike Only	15/16 to 1 5/8

SAFEGUARD WALK-IN LATCH & STRIKE



0055000020

55 SERIES

Positive action latch. Furnished with paddle-type inside release.

- Material: high pressure die-cast zinc body and strike housing, malleable iron handle
- Finishes: polished chrome, Tuffkote
- Drilled and countersunk for 1/4" flat head screws
- Latch base dimension: 9 21/32"L x 4 1/4"W
- Strike dimension: 2 7/16"L x 4 1/4"W

KASON

Part No.	Description	Finish	Offset (In.)
0055000020*	Latch & Strike	Chrome	Flush to 3/16
0055000024*	Latch & Strike	Chrome	3/4 to 1 1/8
0055000028	Latch & Strike	Chrome	1 1/8 to 1 5/8
0055000032*	Latch & Strike	Chrome	1 3/8 to 1 7/8
0055000065	Latch & Strike	Tuffkote	Flush to 3/16
0055000068	Latch & Strike	Tuffkote	1 1/8 to 1 5/8
0055000076	Latch Only	Chrome	-
0055000086	Latch Only	Chrome	-
0055000104*	Strike Only	Chrome	-

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SAFEGUARD WALK-IN LATCH & STRIKE



0056L00086

56 SERIES

Positive action latch.

- Material: high pressure die-cast zinc body and strike housing, malleable iron handle
- Finishes: polished chrome, brushed chrome, Tuffkote
- Drilled and countersunk for 1/4" flat head screws
- Order latch and strike separately
- Latch base dimension: 7"L x 3 3/8"W
- Strike dimension: 2 1/6"L x 3 3/8"W

KASON

Part No.	Description	Finish	Offset (In.)
0056L00086*	Latch Only	Tuffkote	-
0056L05020*	Latch Only	Polished Chrome	-
0056L06021*	Latch Only	Brushed Chrome	-
0056005003*	Strike Only	Polished Chrome	3/4 to 1 1/2
0056005005*	Strike Only	Polished Chrome	1 3/4 to 2 1/2
0056005008*	Strike Only	Polished Chrome	3 to 4



0058CL5020

58 SERIES RADIAL LATCH, 59 ROLLER STRIKE

Radial tongue with rolling pivot action.

- Material: high pressure die-cast zinc
- Finishes: polished chrome, brushed chrome, Tuffkote
- Drilled and countersunk for 1/4" flat head screws
- Latch dimension: 10 5/16"L x 2 13/16"W
- Strike dimension: 1 57/64"L x 2 61/64"W
- Strike material: high pressure die-cast zinc. Stainless black plate
- Strike finish: polished chrome
- Strike mounting holes: drilled and countersunk for 1/4" screws

KASON

Part No.	Description	Finish
0058CL5020*[1]	Latch Only	Chrome
0058CL6020*[1]	Latch Only	Chrome
0058L05021*[1]	Latch Only, Light Spring	Chrome
0058H05021*[1]	Latch Only, Heavy Spring	Chrome
0058L06021*[1]	Latch Only	Chrome
0058L0T021*[1]	Latch Only	Tuffkote
0059005001[1]	Roller Strike, Flush, –1/8" to 1/4"	Polished Chrome
0059005002[1]	Roller Strike, 3/4" to 1-5/8"	Polished Chrome
0059005003[1]	Roller Strike, 1-3/4" to 2-1/2"	Polished Chrome

1 w/Cylinder Lock



0077CL0004C

77 SERIES

Radial tongue with rolling pivot action and roller strike.

- Material: high pressure die-cast zinc
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Latch dimension: 10 5/16"L x 2 13/16"W
- Strike dimension: 1 57/64"L x 2 61/64"W

KASON

Part No.	Description	Finish	Offset (In.)
0077CL0004C*[1]	Latch & Strike	polished chrome	Flush
0077CL0008C*[1]	Latch & Strike	polished chrome	3/4 to 1 1/2
0077CL0012C*[1]	Latch & Strike	polished chrome	1 3/4 to 2 1/2
0077CL0026C*[1]	Latch Only	polished chrome	-
0077L00004C*[1]	Latch & Strike	polished chrome	Flush
0077L00008C*[1]	Latch & Strike	polished chrome	3/4 to 1 1/2
0077L00012C*[1]	Latch & Strike	polished chrome	1 3/4 to 2 1/2

1 Lock

SHELVING HARDWARE



0060007036

PILASTER, FIXED MOUNT

- Material: aluminum or stainless steel
- Width: 13/16"
- Adjustments: slotted for 1/2" adjustments
- Mounting: drilled and countersunk for No. 6 screws
- Screw mounting

KASON

Part No.	Length (In.)	Material
0060007036	36.00	Aluminum
0060007048	48.00	Aluminum
0060007060	60.00	Aluminum
0060007072	72.00	Aluminum
0060009036	36.00	Stainless Steel
0060009048	48.00	Stainless Steel
0060009060	60.00	Stainless Steel
0060009072	72.00	Stainless Steel

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


0065007036

PILASTER, FIXED MOUNT

- Material: aluminum or stainless steel
- Width: 13/16"
- Adjustments: slotted for 1/2" adjustments
- Mounting: No. 65MS studs and pop rivets or No. 10 screws
- Stud or screw mounting

KASON

Part No.	Length (In.)	Material
0065007036	36.00	Aluminum
0065007048	48.00	Aluminum
0065007060	60.00	Aluminum
0065007072	72.00	Aluminum
0065009036	36.00	Stainless Steel
0065009048*	48.00	Stainless Steel
0065009060	60.00	Stainless Steel
0065009072	72.00	Stainless Steel


0066000004

SHELF CLIP

KASON

Part No.	Length (In.)	Material	Use with
0066000004	0.75	Kasonized Steel	Pilaster Model 0060
0066000008*	0.88	Stainless Steel	Pilaster Model 0060
0067000004	1.16	Kasonized Steel	Pilaster Model 0065
0067000008*	0.88	Stainless Steel	Pilaster Model 0065

LIGHTING FIXTURE


11803LEDA26KT

LED WALK-IN COOLER/FREEZER LAMP

- High impact Lexan globe with anti-glare technology
- Preferred lamp for replacement inefficient incandescents and CFL
- Designed to reduce electrical usage by 85%
- Edison Base Socket
- 4000K color temperature, CRI = 85
- Rated 50,000+ hour life
- 3-year limited warranty
- Nominal Power Supply Rating:
  11 Watts, 0.09 AMPS 120V, 50/60 Hz
  11 Watts, 0.04 AMPS 240V, 50/60 Hz
- Operating temperature: -40°F to 90°F

KASON

Part No.	Description
11803LEDA26KT	LED Lamp 11W E26Type A Plus Globe


1803LG0000

VAPOR PROOF

- Material: cast aluminum box and housing, chrome plated steel wire guard, glass or Lexan globe
- Mounting: junction box—two drilled tabs for surface mounting. Base tapped on four sides and top to accept standard 1/2"conduit.
- Length: 8 1/2"
- Width: 5 1/8"
- Glass globe; plastic coated glass: 100W bulb maximum
- Lexan globe: 75W bulb maximum

KASON

Part No.	Globe	Description
1803LG0000*	Lexan	Fixture w/Globe
1802000001	Glass	Globe Only for 1802
1803000001*	Lexan	Globe Only for 1803
1804000001	Plastic Coated Glass	Globe Only
1802000003	Glass	Junction Box Only for 1802, 1803, 1804
1804000003	Glass	Junction Box Only
1802000002*	N/A	Wire Guard Only for 1802

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK IN SURFACE MOUNT LATCH



0930000020

TRIGGER ACTION

- Material: high pressure die-cast zinc body, handle and strike; solid brass tongue
- Finish: polished chrome
- Drilled and countersunk for No. 8 screws
- Interchangeable for right or left hand applications
- Padlockable

KASON

Part No.	Description	Comments	Offset (In.)
0930000020	Latch Only	For All 0930 Models	
0930A00004*	Latch & Strike	Adjustable Strike	Flush to 3/8
0930A00008	Strike Only	Adjustable Strike	Flush to 3/8
0930AX0004*	Latch & Strike	Explosion Venting, Adjustable Strike	Flush to 1/4
0930B00004	Latch & Strike	Stationary Strike	1/4
0930B00008	Strike Only	Stationary Strike	1/4
0930C00004*	Latch & Strike	3-Hole Micrometer Strike	3/4 to 1 1/4
0930C00008	Strike Only	3-Hole Micrometer Strike	3/4 to 1 1/4
0930CX0004*	Latch & Strike	Explosion Venting, 3 Hole Micrometer Strike	3/4 to 1 1/4
0930CX0008	Strike Only	Explosion Venting, 3 Hole Micrometer Strike	3/4 to 1 1/4
0930D00004*	Latch & Strike	3-Hole Microturn Strike	7/8 to 1 1/4
0930D00008	Strike Only	3-Hole Microturn Strike	7/8 to 1 1/4
0930E00004	Latch & Strike	2-Hole Microturn Strike	7/8 to 1 1/4
0930E00008	Strike Only	2-Hole Microturn Strike	7/8 to 1 1/4
0930F00008	Latch & Strike	2-Hole Micrometer Strike	3/4 to 1 1/4
0930F00016	Strike Only	2-Hole Micrometer Strike	3/4 to 1 1/4



0931000004

LARGE TRIGGER ACTION

- Material: high pressure die-cast zinc body, handle and strike; solid brass tongue
- Finish: polished chrome
- Drilled and countersunk for No. 8 screws
- With micrometer adjustable strike
- Interchangeable for right or left hand applications
- Padlockable

KASON

Part No.	Description	Offset (In.)
0931000004*	Latch & Strike	Flush to 1 1/8
0931000008*	Latch & Strike	7/8 to 1 1/8
0931000012*	Latch & Strike	1 1/8 to 1 3/8
0931000016*[1]	Latch Only	-
0931000020*	Strike Only	Flush to 1 1/8
0931000024*	Strike Only	7/8 to 1 3/8
0931000028*	Strike Only	1 1/8 to 1 3/8
0931AX0004*[2]	Latch & Strike	Flush to 1/4
0931AX0008*[2]	Strike Only	Flush to 1/4
0931CX0004*[2]	Latch & Strike	7/8 to 1 1/8
0931CX0008*[2]	Strike Only	7/8 to 1 1/8
0931HX0004*[2]	Latch & Strike	1 1/8 to 1 3/8

1 For All 0931 Models 2 Explosion Venting

WALK-IN SAFETY RELEASE HANDLE



0480000600

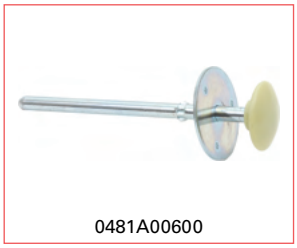
COLLAPSIBLE

- Material: steel
- Finish: Kasonized
- Drilled for No. 10 screws
- Use with 0045/0046, 0050/0051, 0056

KASON

Part No.	Finish	Use with	Description
0480000600	Kasonized	0045/0046, 0050/0051, 0056	Collapsible Safety Release

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


0481A00600

PUSH ROD

- 0481 material: steel rod and flange, Safety-glow™ plastic knob
- 0482 material: steel rod and flange, iron knob
- 0487 material: fiberglass rod, plastic flange
- Finish: Kasonized
- Drilled for No. 10 screws

Part No.	Finish	Use with
0481A00600	Kasonized	0056
0481B00600	Kasonized	0045/0046, 0050/0051, 0052/0053
0481C00600	Kasonized	0058,0077
0482A00600*	Kasonized	0056
0487A00600*	Kasonized	0056


0489A00600

RECESSED PUSH ROD

- Material: plastic housing, steel rod, Safety-glow™ plastic knob
- Finish: Kasonized
- Drilled for No. 10 screws

Part No.	Finish	Housing Diameter (In.)
0489A00600*	Kasonized	4 7/16
0486D00600*	Kasonized	7 3/16

WALK-IN HEAVY DUTY HINGE


0094000004

OVERLAP, TENZALOY

For doors with offset of 5 1/2 " or higher

- Material: cast Tenzaloy
- Finish: Kasonized
- Drilled for 3/8" lag screws
- Wallplate: 7 13/16"L x 4 1/4"W

Part No.	Description	Finish
0094000004	Overlap Hinge, Offset >5 1/2"	Kasonized


0099800004

OVERLAP, IRON

For doors with offset of 4"or higher

- Material: malleable iron
- Finish: Kasonized
- Drilled for 5/16" lag screws
- Wallplate: 5 13/16"L x 2 17/32"W

Part No.	Description	Finish
0099800004	Overlap Hinge, Offset >4"	Kasonized


1398000008

OVERLAP, CAM-RISE

Heavy duty edgemount, self-closing with built-in dwell stop. Reversible.

- Material: high pressure die-cast zinc, nylon cam and follower
- Finishes: Tuffkote, polished chrome

Part No.	Description	Offset (In.)
1398000008	Tuffkote	2 1/2
1398000012*	Polished Chrome	2 1/2
1398000016	Tuffkote	3 1/2
1398000020*	Polished Chrome	3 1/2


1074000008

CAST IRON, 13 5/8" STRAP

- Material: cast iron flange, steel strap, nylon thrust washer, steel pin
- Finish: Kasonized
- Strap drilled for 1/4" screws; flange drilled for 5/16" lag screws
- Flange: 5 5/8"W x 2 7/8"L
- Strap: 3"W x 10" maximum hole centers (L)

Part No.	Finish	Offset (In.)
1074000008*	Kasonized	Flush
1074000020*	Kasonized	1 1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN HEAVY DUTY HINGE



1075000004

CAST IRON, 21" STRAP

- Material: cast iron flange, steel strap, nylon thrust washer, steel pin
- Finish: Kasonized
- Strap drilled for 5/16" lag screws; flange drilled for 3/8" lag screws
- Flange: 8"W x 4"L
- Strap: 4"W x 15 1/2" maximum hole centers (L)

Part No.	Finish	Offset (In.)
1075000004	Kasonized	Flush
1075000016	Kasonized	1 1/8
1075000020	Kasonized	1 1/4
1075000024	Kasonized	1 3/8



1076000016

CAST IRON, 26" STRAP

- Material: cast iron flange, steel strap, nylon thrust washer, steel pin
- Finish: Kasonized
- Strap drilled for 1/4" screws; flange drilled for 5/16"lag screws
- Flange: 8"W x 4"L
- Strap: 4"W x 20 7/16" maximum hole centers (L)

Part No.	Finish	Offset (In.)
1076000016	Kasonized	1 1/8
1076000020	Kasonized	1 1/4
1076000024	Kasonized	1 3/8



1214000012

MALLEABLE IRON LARGE

- Material: malleable iron strap, heavy steel flange
- Finish: Kasonized
- Drilled and countersunk for 1/4" flat head screws.
- Flange: 5 13/32"W x 2 1/2"L
- Strap: 3 1/4"W x 8 5/8" maximum hole centers (L)

Part No.	Finish	Offset (In.)
1214000012*	Kasonized	1 1/8
1214000016	Kasonized	1 1/4
1214000020	Kasonized	1 3/8
1214000024	Kasonized	1 1/2

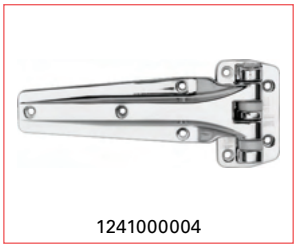


1409000004

MALLEABLE IRON

- Material: malleable iron strap, heavy steel flange
- Finish: Kasonized
- Drilled and countersunk for 1/4"flat head screws.
- Flange: 5 13/32"W x 2 1/2"L
- Strap: 2 3/4"W x 5" maximum hole centers (L)

Part No.	Finish	Offset (In.)
1409000004	Kasonized	Flush

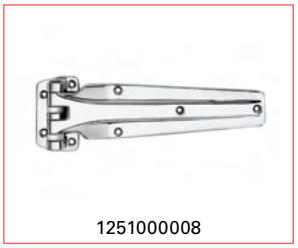


1241000004

DOUBLE KNUCKLE, 6"+ STRAP

- Material: high pressure, die-cast zinc flange and strap, stainless steel pin, Zytel bearing and thrust washer
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 4 1/4"W x 2 1/2"L
- Strap: 2 5/8"W x 6" maximum bolt centers (L)

Part No.	Finish	Offset (In.)
1241000004*	polished chrome	Flush
1241000008*	polished chrome	1 1/8



1251000008

DOUBLE KNUCKLE, 12" STRAP

- Material: high pressure, die-cast zinc flange and strap, stainless steel pin, Zytel bearing and thrust washer
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 4 1/4"W x 2 1/2"L
- Strap: 2 5/8"W x 12"L

Part No.	Finish	Offset (In.)
1251000008	polished chrome	1 1/8
1251000012*	polished chrome	1 1/4
1251000016*	polished chrome	1 3/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VENT


1830000004

HEATED PORT

Two-way air flow compensates for air expansion and contraction.

- Material: all metal parts aluminum, internal sleeve self-extinguishing Lexan
- Finish: natural aluminum
- Sizes: wall thickness—standard 4"
- Drilled for No. 8 screws
- Standard round cover on all models


1830000004

HEATED PORT

KASON

Part No.	Voltage	Overall Dia. (In.)	Hole Size (in.)
1830000004*	115/1	5 3/32	3 1/2
1830000008*	208-240/1	6 1/4	4 5/8
1832000004*	115/1	5 3/32	3 1/2
1832000008	208-240/1	6 1/4	4 5/8

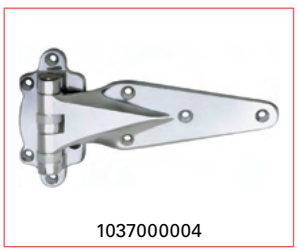

1834000004

UNHEATED PORT

KASON

Part No.	Overall Dia. (In.)	Hole Size (in.)
1834000004*	5 3/32	3 1/2
1836000004*	6 1/4	4 5/8

WALK-IN FORGED BRASS HINGE


1037000004

BRASS, HEAVY FLANGE

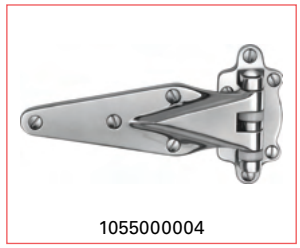
- Material: forged brass strap and flange, stainless steel pin, nylon thrust washers
- Finish: polished chrome
- Drilled and countersunk for 1/4" screws
- Flange: 5

13/32"W x 2 33/64"L

- Strap: 2 23/32"W

KASON

Part No.	Finish	Offset (In.)
1037000004	Polished chrome	Flush
1037000044*	Polished chrome	1 1/8
1037000048	Polished chrome	1 1/4


1055000004

BRASS, HEAVY DUTY

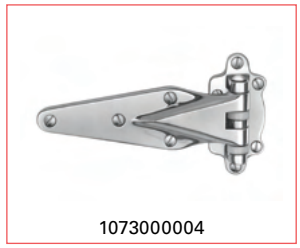
- Material: forged brass strap and flange, stainless steel pin, nylon thrust washers
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 5

13/32"W x 2 33/64"L

- Strap: 3 13/32"W

KASON

Part No.	Finish	Offset (In.)
1055000004*	Polished chrome	Flush
1055000044	Polished chrome	1 1/8
1055000048*	Polished chrome	1 1/4
1055000052	Polished chrome	1 3/8


1073000004

BRASS, EXTRA HEAVY DUTY

- Material: forged brass strap and flange; stainless steel pin, nylon thrust washers
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 6

3/16"W x 3 1/32"L

- Strap: 4 1/8"W

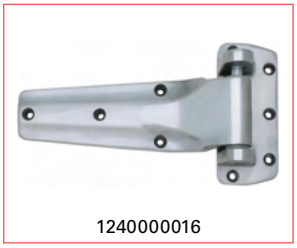
KASON

Part No.	Finish	Offset (In.)
1073000004	Polished chrome	Flush
1073000016	Polished chrome	1 1/8
1073000020	Polished chrome	1 1/4
1073000024	Polished chrome	1 3/8

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WALK-IN CAM RISE HINGE


1240000016

ALUMINUM

- Material: high pressure die-cast aluminum, nylon cam and follower
- Finishes: polished aluminum, Tuffkote
- Drilled and countersunk for 1/4" screws
- Flange: 6"W x 2 1/2"L
- Strap: 3"W x 5 1/2" maximum bolt centers (L)

KASON

Part No.	Finish	Offset (In.)
1240000016	Tuffkote	1 3/8
1240000020	Aluminum	Flush
1240000024	Aluminum	1 1/8
1240000028	Aluminum	1 1/4
1240000032	Aluminum	1 3/8


1275000020

INFITTING DOOR, 21" STRAP

- Material: heavy gauge steel strap, malleable iron flange
- Finish: Kasonized
- Strap drilled for 5/16"screws; flange drilled for 3/8" screws
- Flange: 8 7/8"W x 3 1/2"L
- Strap: 4"W x 21 1/2"L

KASON

Part No.	Finish	Offset (In.)
1275000020	Kasonized	1 1/8
1275000024*	Kasonized	1 1/8
1275000028*	Kasonized	1 1/4
1275000032	Kasonized	1 1/4


1276000020

INFITTING DOOR, 26" STRAP

- Material: heavy gauge steel strap, malleable iron flange
- Finish: Kasonized
- Strap drilled for 5/16"screws; flange drilled for 3/8"screws
- Flange: 8 7/8"W x 3 1/2"L
- Strap: 4"W x 26 7/16"L

KASON

Part No.	Finish	Offset (In.)
1276000020	Kasonized	1 1/8
1276000024	Kasonized	1 1/8
1276000028	Kasonized	1 1/4
1276000032	Kasonized	1 1/4


1277000004

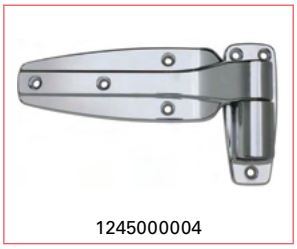
REVERSIBLE

Reversible cam for use on right- or left-hand doors without dismantling.

- Material: high pressure, die-cast zinc flange, 3/16" thick steel strap, 5/8" diameter steel cam, steel pin
- Finish: Kasonized
- Strap drilled for 5/16" screws; flange drilled for 3/8" screws
- Flange: 7 1/8"W x 2 7/8"L
- Strap: 4"W

KASON

Part No.	Finish	Offset (In.)
1277000004	Kasonized	Flush
1277000008*	Kasonized	1 1/8
1277000010*	Kasonized	1 1/4
1277000012*	Kasonized	1 3/8
1277000014*	Kasonized	1 1/2
1277000016*	Kasonized	1 5/8
1277000018*	Kasonized	1 3/4
1277000020*	Kasonized	1 7/8
1277L00008	Kasonized	1 1/8
1277L00010	Kasonized	1 1/4
1277L00012	Kasonized	1 3/8
1277L00016	Kasonized	1 5/8


1245000004

REVERSIBLE

Built-in dwell and lift-off feature. Strap easily reverses for right- or left-opening door.

- Material: high pressure, die-cast zinc hinge, steel pin; self-lubricating nylon cam
- Finishes: Tuffkote, polished chrome, brushed chrome
- Flange: 5 1/2"W x 2 1/8"L
- Strap: 2 7/8"W x 9"L

KASON

Part No.	Finish	Offset (In.)
1245000004*	Tuffkote	Flush
1245000016*	Tuffkote	1 1/8
1245000020*	Tuffkote	1 1/4
1245000024*	Tuffkote	1 3/8
1245000028*	Polished Chrome	Flush
1245000040*	Polished Chrome	1 1/8
1245000044*	Polished Chrome	1 1/4
1245000048*	Polished Chrome	1 3/8
1245000068*	Polished Chrome	1 1/2
1245000072*	Polished Chrome	1 5/8
1245000076*	Polished Chrome	1 3/4
1245000080*	Polished Chrome	1 7/8
1245000082*	Polished Chrome	2
1245000088*	Brushed Chrome	Flush
1245000112	Brushed Chrome	1 1/8
1245000116*	Brushed Chrome	1 1/4
1245000120*	Brushed Chrome	1 3/8
1245000124*	Brushed Chrome	1 1/2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


1246000004

REVERSIBLE, SHORT STRAP

Built-in dwell and lift-off feature. Strap easily reverses for right- or left-opening door.

- Material: high pressure, die-cast zinc hinge, steel pin; self-lubricating nylon cam
- Finishes: Tuffkote, polished chrome, brushed chrome
- Flange: 5 1/2"W x 2 1/8"L
- Strap: 2 7/8"W x 4 1/2"L
- No offset, flush only

KASON

Part No.	Finish	Offset (In.)
1246000004	Tuffkote	flush
1246000028*	Polished Chrome	flush
1246000040*	Brushed Chrome	flush


1249000004

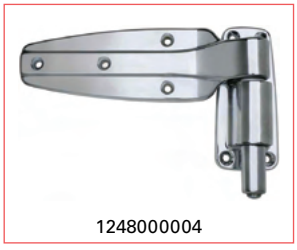
REVERSIBLE, SPRING ASSIST, SHORT STRAP

For left- or right-opening doors.

- Material: high pressure, die-cast zinc flange, steel pin, self-lubricating nylon cam
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 5 21/32"W x 2 7/16"L
- Strap: 2 7/8"W x 4 1/2"L

KASON

Part No.	Finish	Offset (In.)
1249000004*	polished chrome	Flush


1248000004

REVERSIBLE, SPRING ASSIST

For left- or right-opening doors

- Material: high pressure, die-cast zinc flange, steel pin, self-lubricating nylon cam
- Finish: polished chrome
- Drilled and countersunk for 1/4" flat head screws
- Flange: 5 21/32"W x 2 7/16"L
- Strap: 2 7/8"W x 9"L

KASON

Part No.	Finish	Offset (In.)
1248000004*	polished chrome	Flush
1248000016*	polished chrome	1 1/8
1248000020*	polished chrome	1 1/4
1248000022*	polished chrome	1 1/2
1248000024*	polished chrome	1 3/8
1248000025*	polished chrome	1 5/8
1248000026*	polished chrome	1 3/4
1248000027*	polished chrome	1 7/8
1248000030*	polished chrome	2


1255000004

REVERSIBLE, PACESETTER, SHORT STRAP

Self-closing cam action with built-in dwell.

- Complements Pacesetter handle style
- Material: high pressure, die-cast zinc hinge, self-lubricating nylon cam
- Drilled and countersunk for 1/4" screws
- Finishes: polished chrome or brushed chrome with smooth face or textured panel
- Offset: flush
- Flange: 7"W x 1 5/8"L
- Strap: 3 1/16"W x 5 9/32"L
- Spring cartridge converts 1255/1256 to spring hinge for greater closing force

KASON

Part No.	Description	Finish	Offset (In.)
1255000004*	Walk-in cam rise hinge, reversible, pacesetter, short strap, brushed chrome, textured panel, flush	Brushed Chrome	flush
1255000014*	Walk-in cam rise hinge, reversible, pacesetter, short strap, polished chrome, textured panel, flush	Polished Chrome	flush
1255V00004C*	Walk-in cam rise hinge, reversible, pacesetter, short strap, polished chrome, smooth face, flush	Polished Chrome	flush
1255000001*	Spring Kit 1255/1256	Brushed Chrome	flush


1256000004

REVERSIBLE, PACESETTER

Self-closing cam action with built-in dwell.

- Material: high pressure, die-cast zinc hinge, self-lubricating nylon cam
- Drilled and countersunk for 1/4" screws
- Finishes: polished chrome or brushed chrome with smooth face or textured panel
- Offset: flush
- Flange: 7"W x 1 5/8"L
- Strap: 3 1/16"W 7 9/32"L

KASON

Part No.	Finish	Offset (In.)
1256000004*	Brushed Chrome	flush
1256V00004C*	Polished Chrome	flush

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WALK-IN DOOR CLOSER


1095000013

SPRING ACTION

- Operates by direct force adding to natural swing momentum of closing door
- Designed to overcome slowing action of gaskets and air pressure
- Provides fast, full closure for heavy walk-in doors
- Easy installation; simply snaps onto concealed mounting plate.
- Simple spring mechanism gives long, troublefree life.
- Steel housing and bend-resistant hook assure long wear in heavy use.
- Polymer roller ensures quiet operation.
- Ideal complement for Kason Walk-in door hardware to provide self-closing doors.

Part No.	Description	Finish
1095000013*	Steel Closer	bright chrome



1092000004

HYDRAULIC

- Material: steel closer and hook
- Finish: Kasonized

Part No.	Offset (In.)	Finish
1092000004*	Flush	Kasonized
1092000008*	1 1/8	Kasonized



1093000004

HYDRAULIC

- Material: steel closer and hook, white plastic cover
- Finish: Chrome

Part No.	Offset (In.)
1093000004*	Flush
1093000008*	1 1/8


1094000003

SURECLOSE HYDRAULIC

Solid, heavy duty construction with bendproof hook; sure closing and self-correcting to overcome alignment problems.

- Material: heavy gauge steel
- Finish: polished chrome
- Drilled for No. 10 screws
- Exposed body: 7"L x 2"W
- Concealed body: 6 7/32"L x 1 21/64"W
- Hook: 2 5/16"H x 2"W

Part No.	Description	Offset (In.)	Finish
1094000003*	Exposed Mount Body Only	-	polished chrome
1094000013*	Concealed Mount Body Only	-	polished chrome
1094000026*	Hook Only	Flush to 3/4	polished chrome
1094000027*	Hook Only	1 1/8	polished chrome


1097000004

SPRING ARM

Adjustable spring tension; roller rod guide.

- Material: malleable iron with steel rod and tube
- Finish: Kasonized or polished chrome
- Mounting: mounts on door frame above lower hinge. Guide is drilled for 1/4" screws. Closer is drilled for 3/8" screws.
- Closer: 17 3/8"L
- Arm guide: 19 3/4"L
- For doors over 200 lbs. in weight

Part No.	Description	Finish
1097000004*	Heavy Duty Door Closer	Kasonized
1097000008*	Heavy Duty Door Closer	Chrome
1097SS0062	Arm Guide Assembly	Kasonized
1097SS0063	Arm Guide Assembly	Chrome
1097000012*	Spring Cartridge Kit	Kasonized

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WALK-IN LOCKING PULL HANDLE



1229000004

CYLINDER LOCKING

- Finishes: polished chrome, brushed chrome
- Drilled for 1/4" fillister head screws, tamper-resistant screw-hole plugs provided
- Inside release: furnished with stud for 4" door
- Mounting: flush for right- or left-hand doors
- Length: 10 3/4"
- Width: 2 3/8"
- Use with 0923 inside release

KASON

Part No.	Finish	Description
1229000004*	Brushed Chrome	Nonlocking Handle
1229000005	Polished Chrome	Nonlocking Handle



1238C00004

KNOB RELEASE

- With twist knob inside release

KASON

Part No.	Finish
1238C00004*	Brushed Chrome
1238C00005	Polished Chrome
1238CV0005*	Polished Chrome



1239C00004D

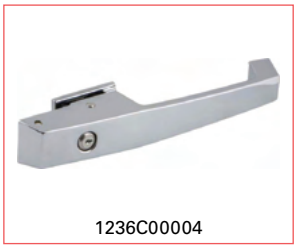
LEVER RELEASE

- With lever turn inside release

KASON

Part No.	Finish
1239C00004D*	Brushed Chrome
1239C00005*	Polished Chrome
1239CV0005*	Polished Chrome

WALK-IN LOCKING LEVER HANDLE



1236C00004

HEAVY DUTY

Flush mounting for right- or left-hand doors. Furnished with cylinder lock and accepts padlock.

- Material: high pressure die-cast zinc
- Finishes: polished chrome, brushed chrome
- Drilled and countersunk for 1/4" screws
- Length: 14 1/32"
- Width: 2 7/8"
- With lever inside release

KASON

Part No.	Finish	Inside Release
1236C00004*	Brushed Chrome	Lever Turn
1236C00005*	Polished Chrome	Lever Turn
1236C00006*	Brushed Chrome	Twist Knob

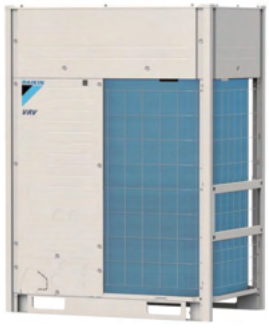


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NOTES

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Split System **Page**
- Condensing Unit Split System 340-395
- Heat Pump Split System 395-406
- Accessories 407-410

Evaporator Coil
- Cased Evaporator Coil 411-412

Fan Coil
- Fan Coil 413-420
- Mobile Home 421
- Drain Pan 422-423
- Accessories 423

Gas Furnace
- Upflow/Downflow/Horizontal 424-432

Oil Furnace
- Oil Furnace 433-434

Packaged Unit, 1 Phase
- A/C Unit, Electric Cool/Gas Heat 435-436
- A/C Unit, Electric Cool 436-437
- Heat Pump Unit 438-439

Packaged Unit, 3 Phase
- A/C Unit, Electric Cool/Gas Heat 440-443
- A/C Unit, Electric Cool 443-444
- Heat Pump Unit 445-446

Mini-Split **Page**
- Ductless Split Daikin 447-448

Mini-Split Accessories
- Daikin Accessories 449-452
- Accessories 453-454

VRV System
- Ductless Split VRV 455-456

Room Air Conditioning
- Thru Wall Air Conditioning 457
- Window Air Conditioner 458-459
- Portable, Commercial 459-461
- Split System Air Conditioning 461-462

The Unico System
- High Static Pressure System 463-468

Self-Contained
- Self Contained Air Conditioning 469-473

Evaporative Cooler
- Residential 474-475
- Commercial 475

CONDENSING UNIT SPLIT SYSTEM



H5A6S18AKAWA

ION 16 AIR CONDITIONER

Come in from the heat with our high efficiency air conditioner with a single-stage compressor that quietly delivers cool comfort and reduced humidity. Pair it with a complete Ion communicating system, including the Ion™ Black System Control with Wi-Fi® capability, for the convenience of remote access along with improved energy-saving performance and comfort management.

- Efficient, single-stage scroll compressor
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel
- Sound-reducing features: soft-mounted compressor, and acoustic-absorbing compressor blanket
- Compatible control: Ion™ Black System Control installed as part of a complete communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5A6S18AKAWA*	1.5	18000	16	208/230	1	2300	70	32.13	32.19	32.19	156.00
H5A6S24AKAWA*	2	24000	16	208/230	1	3600	67	35.50	32.19	32.19	161.00
H5A6S30AKAWA*	2.5	30000	16	208/230	1	3300	69	38.94	32.19	32.19	167.00
H5A6S36AKAWA*	3	36000	16	208/230	1	3800	71	42.31	32.19	32.19	188.00
H5A6S42AKAWA*	3.5	42000	16	208/230	1	4900	72	38.94	32.19	32.19	218.00
H5A6S48AKAWA*	4	48000	16	208/230	1	3100	74	32.13	31.19	31.19	205.00
H5A6S60AKAWA*	5	60000	16	208/230	1	3900	73	38.94	31.19	31.19	221.00



H5A8T24AKAWA

ION 18 TWO-STAGE AIR CONDITIONER

Enjoy comfort without compromise, thanks to our variable-speed air conditioner with SmartSense™ technology. This whisper-quiet system senses changing conditions and adapts so you can stay comfy with outstanding efficiency. And when it gets extra hot and sticky outside, you'll feel the difference with enhanced dehumidification inside. For maximum performance along with the convenience of remote access, pair it with a complete Ion communicating system, including the energy-smart Ion™ Black System Control with Wi-Fi® capability.

- High-efficiency two-stage scroll compressor
- System protecting high- and low-pressure switches and filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel
- Sound-reducing features: soft-mounted compressor, and high performance acoustic-absorbing compressor blanket
- Compatible control: Ion™ Black System Control installed as part of a complete communicating system for full function and efficiency capability, Wi-Fi remote access convenience, and intelligent diagnostics
- Non-ozone depleting, low global warming potential R-454B
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5A8T24AKAWA*	2	24000	18.5	208/230	1	2640	69	35.50	32.19	32.19	179.00
H5A8T36AKAWA*	3	36000	17	208/230	1	3210	69	37.00	35.00	35.00	230.00
H5A8T48AKAWA*	4	48000	18	208/230	1	4781	71	37.00	35.00	35.00	271.00
H5A8T60AKAWA*	5	60000	16.5	208/230	1	4781	73	40.38	35.00	35.00	285.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


H5A1V24AKAWA

ION 21 VARIABLE-SPEED AIR CONDITIONER

Enjoy comfort without compromise, thanks to our variable-speed air conditioner with SmartSense™ technology. This whisper-quiet system senses changing conditions and adapts so you can stay comfy with outstanding efficiency. And when it gets extra hot and sticky outside, you'll feel the difference with enhanced dehumidification inside. For maximum performance along with the convenience of remote access, pair it with a complete communicating system, including the energy-smart Ion™ Black System Control with Wi-Fi® capability.

- High-efficiency variable-speed rotary compressor
- High-efficiency variable-speed fan motor
- System protecting high pressure switch, low pressure transducer, and filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel
- Sound-reducing features: aerodynamic variable-speed fan, soft mounted compressor and high performance acoustic-absorbing compressor blanket
- Compatible control: Ion™ Black System Control installed as part of a complete communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5A1V24AKAWA*	2	24000	21	208/230	1	2500	68	35.50	26.13	23.13	135.00
H5A1V36AKAWA*	3	36000	21	208/230	1	3500	72	35.50	32.19	32.19	188.00
H5A1V48AKAWA*	4	48000	21	208/230	1	4190	72	42.31	32.19	32.19	221.00
H5A1V60AKAWA*	5	60000	21	208/230	1	5250	72	43.81	35.00	35.00	257.00


N5A4S18AKANA

PERFORMANCE CENTRAL AIR CONDITIONER

Keep the heat out during the warm months with our budget-friendly central air conditioner with a single-stage compressor. Enjoy cooling comfort and reliability in this affordable model.

- Efficient, single-stage scroll compressor
- Single-speed fan motor
- System protecting filter drier
- Durable, protective inlet grille panels allow easy coil cleaning
- Baked-on powder coat finish over galvanized steel
- Compatible with most cooling thermostats
- Lower global warming potential R-454B refrigerant

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5A4S18AKANA*	1.5	18000	16	208/230	1	1600	70	33.00	26.13	26.13	129.00
N5A4S24AKANA*	2	24000	16	208/230	1	2100	71	45.69	35.00	35.00	281.00
N5A4S30AKANA*	2.5	30000	16	208/230	1	2700	71	36.44	34.25	34.25	167.00
N5A4S36AKANA*	3	36000	15.5	208/230	1	2800	71	33.00	34.25	34.25	162.00
N5A4S42AKANA*	3.5	42000	16	208/230	1	3800	73	43.25	34.25	34.25	201.00
N5A4S48AKANA*	4	48000	15.2	208/230	1	3000	77	33.00	34.25	34.25	200.00
N5A4S60AKANA*	5	60000	16	208/230	1	4000	73	36.44	34.25	34.25	211.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CONDENSING UNIT SPLIT SYSTEM



N5A5S18AKAWA

PERFORMANCE 16 AIR CONDITIONER

You don't need to feel the strain of hot weather on your budget when you can have ENERGY STAR® qualified performance from a price-friendly unit. This single-stage air conditioner will provide years of reliable performance and help you keep the heat and humidity at bay all summer long.

- Efficient, single-stage scroll compressor
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible with most cooling thermostats
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5A5S18AKAWA*	1.5	18000	14.3	208/230	1	2300	72	32.06	31.06	31.06	131.00
N5A5S24AKAWA*	2	24000	14.3	208/230	1	3600	73	35.06	32.19	32.19	143.00
N5A5S30AKAWA*	2.5	30000	14.3	208/230	1	3300	71	38.88	31.06	31.06	149.00
N5A5S36AKAWA*	3	36000	14.3	208/230	1	3800	72	32.06	32.19	32.19	158.00
N5A5S42AKAWA*	3.5	42000	14.3	208/230	1	4900	75	38.88	31.06	31.06	196.00
N5A5S48AKAWA*	4	48000	13.8	208/230	1	3100	75	31.69	32.19	32.19	180.00
N5A5S60AKAWA*	5	60000	13.8	208/230	1	3900	75	38.44	31.06	31.06	196.00



N5A8T24AKAWA

PERFORMANCE 18 TWO-STAGE AIR CONDITIONER

This cost-efficient air conditioner beats the summer heat with longer cooling cycles to keep temperatures even throughout the house and summer humidity at a minimum. And when temperatures soar, it kicks into high gear to keep you from working up a sweat. With up to 18 SEER2 cooling efficiency it can put your electric bill on ice as well.

- High-efficiency two-stage scroll compressor
- High-efficiency ECM fan motor
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible with most cooling thermostats
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5A8T24AKAWA*	2	24000	18.5	208/230	1	2640	72	35.06	32.19	32.19	154.00
N5A8T36AKAWA*	3	36000	17	208/230	1	3120	71	32.50	35.00	35.00	193.00
N5A8T48AKAWA*	4	48000	18	208/230	1	4871	72	35.50	35.00	35.00	234.00
N5A8T60AKAWA*	5	60000	16.5	208/230	1	4781	74	38.88	35.00	35.00	246.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



N5A5S18CKAWA

PERFORMANCE 16 COASTAL AIR CONDITIONER

If you live near the coast, you know how hard salt air is on your cooling system. Now you can get the reliable comfort you want with the budget-friendly air conditioner that defies salt air. It features a dependable, single-stage scroll compressor for quiet cooling but what helps it outlast other air conditioners is a special coastal coated fan guard and dense wire coil guard.

- Efficient, single-stage scroll compressor
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible with most cooling thermostats
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5A5S18CKAWA*	1.5	18000	14.3	208/230	1	2300	72	32.06	32.19	32.19	131.00
N5A5S24CKAWA*	2	24000	14.3	208/230	1	3600	73	35.06	31.06	31.06	143.00
N5A5S30CKAWA*	2.5	30000	14.3	208/230	1	3300	71	38.88	32.19	32.19	149.00
N5A5S36CKAWA*	3	36000	14.3	208/230	1	3800	72	32.06	31.06	31.06	158.00
N5A5S42CKAWA*	3.5	42000	14.3	208/230	1	4900	75	38.88	32.19	32.19	196.00
N5A5S48CKAWA*	4	48000	13.8	208/230	1	3100	75	31.69	32.19	32.19	180.00
N5A5S60CKAWA*	5	60000	13.8	208/230	1	3900	75	38.44	32.19	32.19	196.00



N5A8T24CKAWA

PERFORMANCE TWO-STAGE COASTAL AIR CONDITIONER

This cost-efficient air conditioner beats the summer heat with longer cooling cycles to keep temperatures even throughout the house and summer humidity at a minimum. And when temperatures soar, it kicks into high gear to keep you from working up a sweat. With up to 18 SEER2 cooling efficiency it can put your electric bill on ice as well. What helps it outlast other air conditioners is a special coastal coated fan guard and dense wire coil guard.

- High-efficiency two-stage scroll compressor
- High-efficiency ECM fan motor
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible with most cooling thermostats
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5A8T24CKAWA*	2	24000	18.5	208/230	1	2640	71	39.81	34.25	34.25	175.00
N5A8T36CKAWA*	3	36000	17	208/230	1	3120	69	39.81	38.00	38.00	220.00
N5A8T48CKAWA*	4	48000	18	208/230	1	4871	71	39.81	38.00	38.00	261.00
N5A8T60CKAWA*	5	60000	16.5	208/230	1	4781	73	43.25	38.00	38.00	274.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CONDENSING UNIT SPLIT SYSTEM


R5A4S18AKANA

SINGLE-STAGE AIR CONDITIONER

This unit has been designed utilizing non-ozone depleting, low global warming potential R-454B refrigerant. Air conditioners with R-454B refrigerant provide a collection of features unmatched by any other family of equipment.

- 13.4 - 16.0 SEER2 / 11.0 – 13.5 EER2
- Indoor air quality accessories available
- System supports programmable or standard thermostat controls
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier
- Solid, durable sheet metal construction
- Dense wire coil guard
- Long–line – up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.4 m) evaporator above condenser (See Long Line Guide for more information.)
- Low ambient cooling (down to 0°F / -18°C) with approved low ambient accessory kits.

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
R5A4S18AKANA*	1.5	18000	13.4	208/230	1	1600	72	28.25	26.13	23.13	109.00
R5A4S24AKANA*	2	24000	13.4	208/230	1	2100	74	33.75	26.75	26.75	140.00
R5A4S30AKANA*	2.5	30000	13.4	208/230	1	2700	72	33.25	32.19	32.19	166.00
R5A4S36AKANA*	3	36000	13.4	208/230	1	2800	73	29.88	32.19	32.19	153.00
R5A4S42AKANA*	3.5	42000	13.4	208/230	1	3800	74	40.06	32.19	32.19	193.00
R5A4S48AKANA*	4	48000	13.4	208/230	1	3000	77	28.25	32.19	32.19	172.00
R5A4S60AKANA*	5	60000	13.4	208/230	1	4000	74	31.69	32.19	32.19	184.00


R5A5S18AKAWA

SINGLE-STAGE AIR CONDITIONER

This unit has been designed utilizing non-ozone depleting, low global warming potential R-454B refrigerant. Air conditioners with R-454B refrigerant provide a collection of features unmatched by any other family of equipment.

- 13.8 - 17.0 SEER2 / 11.2 – 14.5 EER2
- Indoor air quality accessories available
- System supports programmable or standard thermostat controls
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier
- Solid, durable sheet metal construction
- Dense wire coil guard
- Long–line – up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.4 m) evaporator above condenser (See Long Line Guide for more information.)
- Low ambient cooling (down to 0°F / -18°C) with approved low ambient accessory kits.

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
R5A5S18AKAWA*	1.5	18000	14.3	208/230	1	2300	72	31.69	32.19	32.19	130.00
R5A5S24AKAWA*	2	24000	14.3	208/230	1	3600	73	35.06	32.19	32.19	142.00
R5A5S30AKAWA*	2.5	30000	14.3	208/230	1	3300	71	38.44	32.19	32.19	148.00
R5A5S36AKAWA*	3	36000	14.3	208/230	1	3800	72	31.69	32.19	32.19	157.00
R5A5S42AKAWA*	3.5	42000	14.3	208/230	1	4900	75	38.44	32.19	32.19	195.00
R5A5S48AKAWA*	4	48000	14.3	208/230	1	3100	75	31.69	32.19	32.19	179.00
R5A5S60AKAWA*	5	60000	14.3	208/230	1	3900	75	38.44	32.19	32.19	195.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


TZA14AY18AJ1NA

IC CONDENSER AIR CONDITIONING SINGLE ZONE

- Fully Louvered Steel Cabinet: Features durable construction to add protection from yard hazards and weather corrosion
- Two-Stage Scroll Compressor1: Features two speeds (high and low) of cooling and heating, providing more precise temperature control, lower humidity and greater efficiency when compared to single stage compressors
- Inverted Reversing Valve: Allows for faster heat transfer with gravity assist shifting and reduced joint stress for increased reliability
- Expanded Valve Space: Provides a minimum working area of 27-square inches for easier access
- Designing for Sustainability with Low GWP
- Refrigerant Detection System

						Dimensions (In.)			
Part No.	Nominal Tons	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
TZA14AY18AJ1NA	1.5	208/230	1	1765	70	25.17	29.54	29.54	141.00
TZA14AY24AJ1NA	2	208/230	1	3146	71	25.17	33.66	33.66	163.00
TZA14AY24BJ1NA	2	208/230	1	3146	71	25.17	33.66	33.66	163.00
TZA14AY30AJ1NA	2.5	208/230	1	3146	71	25.17	33.66	33.66	163.00
TZA14AY36AJ1NA	3	208/230	1	3021	71	25.17	33.66	33.66	186.00
TZA14AY42AJ1NA	3.5	208/230	1	3431	73	35.17	33.66	33.66	252.00
TZA14AY48AJ1NA	4	208/230	1	3606	74	35.17	33.66	33.66	243.00
TZA14AY60AJ1NA	5	208/230	1	4169	76	45.17	35.43	35.43	266.00

HEAT PUMP SPLIT SYSTEM


H5H6S18AKAAA

ION 16 HEAT PUMP

This heat pump boasts cooling efficiencies of up to 16 SEER2 and features a single-stage scroll compressor for electric heating and cooling. Pair it with a compatible gas furnace and thermostat to gain dual fuel heating efficiency in colder climates. You can also enjoy the convenience of remote access and the assurance of best levels of performance and comfort management when you pair it with a complete communicating system, including the energy-smart Ion™ Black System Control with Wi-Fi® capability

- Efficient, single-stage scroll compressor
- Single-speed fan motor
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- System protecting filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel - Sound-reducing features: soft-mounted compressor, acoustic-absorbing compressor blanket, and Quiet Shift 2 defrost
- Compatible control: Ion™ Black System Control installed as part of a complete Ion communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Lower global warming potential R-454B refrigerant
- Cooling Capacity: 1.5-5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5H6S18AKAAA*	1.5	18000	15.5	12.5	208/230	1	70	32.13	32.19	32.19	168.00
H5H6S24AKAAA*	2	24000	17.5	13.5	208/230	1	67	35.50	32.19	32.19	196.00
H5H6S30AKAAA*	2.5	30000	15.5	12.5	208/230	1	67	38.94	31.19	31.19	188.00
H5H6S36AKAAA*	3	36000	16	13	208/230	1	74	32.13	31.19	31.19	193.00
H5H6S42AKAAA*	3.5	42000	15.5	12.5	208/230	1	74	32.13	32.19	32.19	224.00
H5H6S48AKAAA*	4	48000	15.5	12.5	208/230	1	74	38.94	32.19	32.19	252.00
H5H6S60AKAAA*	5	60000	15.2	12	208/230	1	71	35.00	35.00	35.00	254.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT PUMP SPLIT SYSTEM


H5H8T24AKAAA

ION 18 TWO-STAGE HEAT PUMP

Now you can get high-efficiency comfort from one powerful unit with our electric heat pump that gets up to a 18 SEER2 cooling rating. It delivers reliable heating and cooling using a two-stage scroll compressor that operates mostly in a quieter, more efficient low stage. Combine it with a compatible gas furnace and thermostat for greater dual fuel heating energy and cost savings in colder climates. You can also enjoy the convenience of remote access and the assurance of best levels of performance and comfort management when you pair it with a complete communicating system, including the energy-smart Ion™ Black System Control with Wi-Fi® capability

- High-efficiency two-stage scroll compressor
- Variable-speed fan motor
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- System protecting high- and low-pressure switches and filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel
- Sound-reducing features: soft-mounted compressor, high performance acoustic-absorbing compressor blanket, and Quiet Shift defrost
- Compatible control: Ion™ Black System Control installed as part of a complete Ion™ communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5H8T24AKAAA*	2	25000	18	14	208/230	1	67	37.00	35.00	35.00	258.00
H5H8T36AKAAA*	3	36000	18	14	208/230	1	68	40.38	35.00	35.00	277.00
H5H8T48AKAAA*	4	48000	18	14	208/230	1	70	47.19	35.00	35.00	325.00
H5H8T60AKAAA*	5	60000	18	14	208/230	1	69	51.00	38.00	38.00	359.00


H5H0V24AKAAA

ION 20 VARIABLE-SPEED HEAT PUMP

Enjoy comfort without compromise, thanks to our fully variable-speed heat pump with SmartSense™ technology. This whisper-quiet system efficiently adapts to changing conditions so you stay comfy with outstanding efficiency. Use it year-round in most climates with enhanced summer humidity control and warm winter heating even in colder temperatures. Or, combine it with a compatible gas furnace and thermostat to gain dual fuel heating efficiency in more extreme climates. You can also enjoy the convenience of remote access and the assurance of best levels of performance and comfort management when you pair it with a complete communicating system, including the energy-smart Ion™ Black System Control with Wi-Fi® capability

- High-efficiency variable-speed compressor
- High-efficiency variable-speed fan motor
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- System protecting high pressure switch, low pressure transducer and filter drier
- Durable, protective tight wire grille panels allow easy coil cleaning; corner posts for extra strength and style
- High-gloss, baked-on powder coat finish over galvanized steel
- Sound-reducing features: aerodynamic variable-speed fan, soft mounted compressor, high performance acoustic-absorbing compressor blanket, and Quiet Shift defrost
- Compatible control: Ion™ Black System Control installed as part of a complete communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Electronic Expansion Valve for efficient heating control
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
H5H0V24AKAAA*	2	24000	20	11.5	208/230	1	68	35.50	26.13	23.13	138.00
H5H0V36AKAAA*	3	36000	20	11.5	208/230	1	72	35.50	32.19	32.19	188.00
H5H0V48AKAAA*	4	48000	20	11.5	208/230	1	72	43.83	35.00	35.00	269.00
H5H0V60AKAAA*	5	60000	20	11.5	208/230	1	72	43.81	35.00	35.00	269.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



N5H5S18AKAAA

PERFORMANCE 16 HEAT PUMP

This heat pump features a single-stage scroll compressor with cooling efficiencies up to 16 SEER2. It's quiet electric heating and cooling can be used year round in warmer climates, or pair it with a compatible gas furnace and thermostat to gain dual fuel heating efficiency in colder climates. It is ENERGY STAR® qualified on select sizes which means you can enjoy money-saving, efficient comfort.

- Single-stage scroll compressor
- Single-speed fan motor
- System protecting high- and low-pressure switches and filter drier
- Durable, protective inlet grille panels allow easy coil cleaning
- Baked-on powder coat finish over galvanized steel
- Compatible with humidity sensing thermostats
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5H5S18AKAAA*	1.5	18000	15.5	12.5	208/230	1	72	32.06	32.19	32.19	149.00
N5H5S24AKAAA*	2	24000	17.5	13.5	208/230	1	71	35.50	31.19	31.19	176.00
N5H5S30AKAAA*	2.5	30000	15.5	12.5	208/230	1	70	38.88	32.19	32.19	168.00
N5H5S36AKAAA*	3	36000	16	13	208/230	1	76	32.06	31.19	31.19	173.00
N5H5S42AKAAA*	3.5	42000	15.5	12.5	208/230	1	76	32.06	32.19	32.19	204.00
N5H5S48AKAAA*	4	48000	15.5	12.5	208/230	1	76	38.88	31.19	31.19	232.00
N5H5S60AKAAA*	5	60000	12	12	208/230	1	74	35.50	35.00	35.00	234.00



N5H8T24AKAAA

PERFORMANCE 18 TWO-STAGE HEAT PUMP

This cost-efficient heat pump beats the summer heat and winter's icy chill with longer cooling and heating cycles. It keeps temperatures even throughout the house and summer humidity at a minimum. And when outdoor conditions are more extreme, it kicks into high gear to keep you cozy all year long. With up to 18 SEER2 cooling and up to 8.5 HSPF2 heating efficiency, it can put your electric bills on ice as well.

- High-efficiency two-stage scroll compressor
- Variable-speed fan motor
- System protecting high-and low-pressure switches and filter drier
- Durable, protective inlet grille panels allow easy coil cleaning
- Baked-on powder coat finish over galvanized steel
- Compatible with humidity sensing thermostats
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5H8T24AKAAA*	2	25000	18	14	208/230	1	69	35.50	35.00	35.00	220.00
N5H8T36AKAAA*	3	36000	18	14	208/230	1	69	38.88	35.00	35.00	237.00
N5H8T48AKAAA*	4	48000	18	14	208/230	1	70	45.69	35.00	35.00	281.00
N5H8T60AKAAA*	5	60000	18	14	208/230	1	73	45.69	35.00	35.00	285.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT PUMP SPLIT SYSTEM



N5H8T24CKAAA

PERFORMANCE 18 TWO-STAGE COASTAL HEAT PUMP

Live near the coast? You're likely all too familiar with the effects of hard salt air on an outdoor heating and cooling. This unit is equipped to fight against the corrosive effects of salty coastal air with a special coastal coated fan guard and dense wire coil guard. This unit keeps temperatures even throughout the house and summer humidity at a minimum. And when outdoor conditions are more extreme, it kicks into high gear to keep you cozy all year long. With up to 18 SEER2 cooling and up to 8.5 HSPF2 heating efficiency, it can put your electric bills on ice as well.

- High-efficiency two-stage scroll compressor
- Variable-speed fan motor
- System protecting high-and low-pressure switches and filter drier
- Durable, protective inlet grille panels allow easy coil cleaning
- Baked-on powder coat finish over galvanized steel
- Compatible with humidity sensing thermostats
- Non-ozone depleting, low global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5H8T24CKAAA*	2	25000	18	14	208/230	1	69	35.50	35.00	35.00	220.00
N5H8T36CKAAA*	3	36000	18	14	208/230	1	69	38.88	35.00	35.00	237.00
N5H8T48CKAAA*	4	48000	18	14	208/230	1	70	45.69	35.00	35.00	281.00
N5H8T60CKAAA*	5	60000	18	14	208/230	1	73	45.69	35.00	35.00	285.00



N5H5S18CKAAA

PERFORMANCE COASTAL HEAT PUMP

If you live near the coast, you know how hard salt air is on your heating and cooling system. Now you can get the reliable comfort you want with the budget-friendly heat pump that defies salt air. It features a dependable, single-stage scroll compressor for quiet electric heating and cooling but what helps it outlast other heat pumps is a special coastal coated fan guard and dense wire coil guard.

- Single-stage scroll compressor
- Single-speed fan motor
- System protecting high- and low-pressure switches and filter drier
- Durable, protective inlet grille panels allow easy coil cleaning
- Baked-on powder coat finish over galvanized steel
- Compatible with humidity sensing thermostats
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
N5H5S18CKAAA*	1.5	18000	15.5	12.5	208/230	1	72	32.06	32.19	32.19	149.00
N5H5S24CKAAA*	2	24000	17.5	13.5	208/230	1	71	35.50	31.19	31.19	176.00
N5H5S30CKAAA*	2.5	30000	15.5	12.5	208/230	1	70	38.88	32.19	32.19	168.00
N5H5S36CKAAA*	3	36000	16	13	208/230	1	76	32.06	32.19	32.19	173.00
N5H5S42CKAAA*	3.5	42000	15.5	12.5	208/230	1	76	32.06	32.19	32.19	204.00
N5H5S48CKAAA*	4	48000	15.5	12.5	208/230	1	76	38.88	32.19	32.19	232.00
N5H5S60CKAAA*	5	60000	12	12	208/230	1	74	35.50	35.00	35.00	234.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


R5H5S18AKAAA

SINGLE-STAGE HEAT PUMP

This unit has been designed utilizing non-ozone depleting and low global warming potential R-454B refrigerant. Heat pumps with R-454B refrigerant provide a collection of features unmatched by any other family of equipment.

- 14.3 - 16.0 SEER2 / 10.0 - 12.5 EER2 / 7.5 - 7.8 HSPF2 (depending on unit size and indoor combination installed)
- Indoor air quality accessories available
- System supports programmable or standard thermostat controls
- Sound levels as low as 70 dBA
- Non-ozone depleting and low global warming potential R-454B refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability
- Solid, durable sheet metal construction
- Dense wire coil guard
- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to 0°F/-17.8°C) with approved low ambient accessory kits

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
R5H5S18AKAAA*	1.5	18000	14.3	12.5	208/230	1	72	33.25	32.19	32.19	167.00
R5H5S24AKAAA*	2	24000	14.3	12.5	208/230	1	71	36.69	32.19	32.19	195.00
R5H5S30AKAAA*	2.5	30000	14.3	12.5	208/230	1	70	40.06	32.19	32.19	188.00
R5H5S36AKAAA*	3	36000	14.3	12.5	208/230	1	76	33.25	32.19	32.19	192.00
R5H5S42AKAAA*	3.5	42000	14.3	12.5	208/230	1	76	33.25	32.19	32.19	223.00
R5H5S48AKAAA*	4	48000	14.3	12.5	208/230	1	76	40.06	32.19	32.19	252.00
R5H5S60AKAAA*	5	60000	14.3	12.5	208/230	1	74	37.19	32.19	32.19	254.00


D5CURAH18AAK

PERFORMANCE CROSSOVER HEAT PUMP

Find the budget-friendly comfort you want in a compact size to fit a narrow lot with our efficient heat pump that gets an up to 18.8 SEER2 cooling rating. Its small design allows for close installation to your home.

- Variable-speed scroll compressor
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible thermostat: heat/cool with humidity sensing
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 1.5–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
D5CURAH18AAK*	1.5	18000	18000	18.8	208/230	1	55	21.81	12.99	31.69	83.77
D5CURAH24AAK*	2	24000	26000	18.2	208/230	1	60	26.50	13.46	35.04	109.13
D5CURAH30AAK*	2.5	30000	31000	17	208/230	1	60	31.89	16.14	37.24	152.34
D5CURAH36AAK*	3	36000	36000	16.2	208/230	1	63	31.89	16.14	37.24	163.58
D5CURAH48AAK*	4	48000	48000	16	208/230	1	65	38.39	16.34	38.58	224.21
D5CURAH60AAK*	5	60000	54000	15.2	208/230	1	65	38.39	16.34	38.58	221.21

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT PUMP SPLIT SYSTEM



D5CUHAH18AAK

QUIETCOMFORT CROSSOVER HEAT PUMP

Find the budget-friendly comfort you want in a compact size to fit a narrow lot with our efficient heat pump that gets an up to 19 SEER2 cooling rating. Its small design allows for close installation to your home.

- Variable-speed scroll compressor
- High-gloss, baked-on powder coat finish over galvanized steel
- Compatible thermostat: heat/cool with humidity sensing
- Lower global warming potential R-454B refrigerant
- Heating and cooling capacity: 1.5–5 tons

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	dB(A)	H	D	W	Ship Wgt (Lbs.)
D5CUHAH18AAK*	1.5	18000	19000	19	208/230	1	59	26.50	13.46	35.04	109.13
D5CUHAH24AAK*	2	23000	24000	18.4	208/230	1	60	26.50	13.46	35.04	109.13
D5CUHAH30AAK*	2.5	30000	34000	16.9	208/230	1	60.5	31.89	16.14	37.24	174.60
D5CUHAH36AAK*	3	36000	37000	17.4	208/230	1	62.5	38.39	16.34	38.58	235.23
D5CUHAH48AAK*	4	48000	50000	16.5	208/230	1	65	38.39	16.34	38.58	232.36
D5CUHAH60AAK*	5	60000	56000	16	208/230	1	65	52.48	16.34	37.48	275.13



BOVA24HDN1M15G

HIGH-EFFICIENCY OUTDOOR CONDENSING SECTION, IDS 2.0

Intelligent control features help adjust the output capacity allowing the unit to keep the temperature at the desired level without fluctuation and to keep humidity in check during the summer months.

The air coil design provides exceptional heat transfer and low air-resistance for high-efficiency operation

The direct-drive fan blades provide vortex suppression to reduce sound of airflow exiting the condensing section, thereby retaining relatively low noise at high speed - with sound levels as low as 56 dBA.

The high-efficiency variable capacity inverter compressor can adjust output to any level between 25% and 110%, to perfectly cool and heat a home using minimal energy for maximum comfort.

The condensing units come standard with an electronic expansion valve (EEV) to ensure proper refrigerant flow during all conditions in order to optimize the unit's process to the highest efficiency possible.

- 20.5 SEER / 10.5 HSPF
- ENERGY STAR rated
- Fully-modulating inverter drive
- Sound levels as low as 56 dBA
- Compatible with most 24 VAC thermostats
- Operates in heating down to -4°F
- Operates in cooling up to 125°F
- Up to 150 ft lineset
- Designed for easy installation
- 10-year residential limited warranty

BOSCH Invented for life

							Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
BOVA24HDN1M15G	2	24000	208/230	1	830	77	24.94	28.00	28.00	154.00
BOVA36HDN1M15G	3	36000	208/230	1	830	77	24.94	28.00	28.00	162.00
BOVA60HDN1M15G	5	60000	208/230	1	1830	79	33.19	29.13	29.13	218.00
BOVA36HDN1M20G	3	36000	208/230	1	1150	77	24.94	29.13	29.13	180.00
BOVA60HDN1M20G	5	60000	208/230	1	1750	79	33.19	29.13	29.13	253.00
BOVB060HDN1M18M	5	60000	208/230	1	1830	79	33.19	29.13	29.13	238.00
BOVB36HDN1M20G	3	36000	208/230	1	1150	77	24.94	29.13	29.13	180.00
BOVB60HDN1M20G	5	60000	208/230	1	1750	79	33.19	29.13	29.13	253.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



9H521YIMI

21 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 9-24K

The 21 SERIES Multi-Zone Heat Pump System is designed for superior efficiency, reliability, and environmentally friendly performance with R-454B refrigerant, a next-generation solution that reduces environmental impact while enhancing system efficiency. Backed by a 7-year compressor warranty and a 2-year parts warranty, this system ensures long-term dependability. Featuring inverter compressor technology, it provides precise cooling and humidity management, optimizing comfort while minimizing energy consumption. Additionally, its factory pre-installed multi-function board enables intelligent operation, adapting seamlessly to various climate conditions. Built for modern convenience, the system is WiFi-compatible with an optional adapter (sold separately), allowing remote access for effortless temperature control. The Follow Me Mode feature ensures personalized comfort by sensing the temperature directly at the remote control or an optional wall control, adjusting accordingly for optimal room conditions. With advanced technology, user-friendly features, and a commitment to sustainability, the 21 SERIES Multi-Zone Heat Pump System with R-454B refrigerant is the smart choice for efficient and eco-conscious indoor climate control.

Indoor

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Cooling Range 5-122F

Outdoor

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Auto Change Over
- Auto Restart
- Pre Charged for 24.6' Piping
- Heating Range 115v 13-86F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
9H521YIMI	0.75	9000	10000	115	1	312	43.5	11.50	7.87	28.70	Indoor	23.59
12H521YIMI	1	12000	12000	115	1	353.2	45	11.61	7.87	31.57	Indoor	24.00
18H521ZIMI	1.5	18000	18800	208/230	1	470.9	49	12.64	8.98	38.23	Indoor	32.00
24H521ZIMI	2	24000	25000	208/230	1	729.9	62	13.27	9.21	42.6	Indoor	39.00
9H521YOMI	0.75	9000	10000	115	1	1294.1	53	21.85	11.93	30.12	Outdoor	62.17
12H521YOMI	1	12000	12000	115	1	1235.3	52.5	21.85	11.93	30.12	Outdoor	67.02
18H521ZOMI	1.5	18000	18800	208/230	1	1235.3	58	21.81	12.99	31.69	Outdoor	78.48
24H521ZOMI	2	24000	25000	208/230	1	729.9	62	26.5	13.46	35.04	Outdoor	102.29



C09H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) CONSOLE 9-18K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Refrigerant Leak Sensor
- Cooling Range -13-122F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
C09H525ZMI	0.75	9000	9000	208/230	1	441.4	45	24.45	7.87	31.26	Indoor	41.89
C12H525ZMI	1	12000	12000	208/230	1	441.4	42	24.45	7.87	31.26	Indoor	41.89
C18H525ZMI	1.5	16000	17000	208/230	1	500.3	41.5	24.45	7.87	31.26	Indoor	41.89

HEAT PUMP SPLIT SYSTEM



CA09H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) 4 WAY CASSETTE 9-24K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Refrigerant Leak Sensor
- Built-In Condensate Pump
- Cooling Range -13-122F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
CA09H525ZMI	0.75	9000	10000	208/230	1	312	42.5	9.65	22.44	22.44	Indoor	41.89
CA12H525ZMI	1	12000	12000	208/230	1	364.9	46	9.65	22.44	22.44	Indoor	41.89
CA18H525ZMI	1.5	18000	18000	208/230	1	388.5	48	9.65	22.44	22.44	Indoor	41.89
CA24H525ZMI	2	24000	25000	208/230	1	706.3	45.5	8.07	32.68	32.68	Indoor	59.08



D09H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) HORIZONTAL DUCTED 9-24K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Refrigerant Leak Sensor
- Medium Static (Up to 0.8" W.C.)
- Cooling Range -13-122F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
D09H525ZMI	0.75	9000	10000	208/230	1	344.3	29.5	9.65	29.53	27.56	Indoor	73.85
D12H525ZMI	1	12000	12000	208/230	1	419.1	33.5	9.65	29.53	27.56	Indoor	73.85
D18H525ZMI	1.5	18000	20000	208/230	1	706.3	40	9.65	29.53	39.37	Indoor	91.27
D24H525ZMI	2	24000	25000	208/230	1	853.5	40	6.65	29.53	27.53	Indoor	91.93

Arcoaire Air Conditioning & Heating
DAIKIN
BOSCH
UNITED REFRIGERATION INC.
HVAC PARTNERS
THERMAL ZONE
REZNOR
Sea Breeze+



FC18H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) FLOOR/CEILING 18-24K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Refrigerant Leak Sensor
- Cooling Range -13-122F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
FC18H525ZMI	1.5	18000	19000	208/230	1	576.8	45	9.25	26.57	42.05	Indoor	61.29
FC24H525ZMI	2	24000	24000	208/230	1	735.8	51.5	9.25	26.57	42.05	Indoor	61.29



SCA09H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) 1 WAY SLIM CASSETTE 9-18K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- Refrigerant Leak Sensor
- Built-In Condensate Pump
- Cooling Range -13-122F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
SCA09H525ZMI	0.75	9000	11000	208/230	1	341.4	46.5	22.64	22.48	57.60	Indoor	82.45
SCA12H525ZMI	1	12000	12000	208/230	1	353.2	43	22.64	22.48	57.60	Indoor	82.45
SCA18H525ZMI	1.5	18000	18000	208/230	1	400.2	44	22.64	22.48	57.60	Indoor	82.89



SZ09H525ZMO

OUTDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 9-24K

Outdoor Unit

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Intelligent Dusting
- Auto Change Over
- Auto Restart
- Pre Charged for 24.6' Piping
- 208/230v
- Heating Range -13-75F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
SZ09H525ZMO	0.75	9000	10000	208/230	1	1235.3	52.5	21.85	11.93	30.12	Outdoor	67.68
SZ12H525ZMO	1	12000	12000	208/230	1	1236.1	55.5	21.85	11.93	30.12	Outdoor	67.68
SZ18H525ZMO	1.5	17500	20000	208/230	1	1765.8	58	26.50	13.46	35.04	Outdoor	100.31
SZ24H525ZMO	2	24000	25000	208/230	1	2236.7	60	31.89	16.14	37.24	Outdoor	132.28

HEAT PUMP SPLIT SYSTEM



SZ30H525ZMO

OUTDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 30-36K

Outdoor Unit

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Auto Change Over
- Auto Restart
- Pre Charged for 24.6' Piping
- 208/230v
- Heating Range 5-75F

Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	Dimensions (In.) H	D	W	Application	Ship Wgt (Lbs.)
SZ30H525ZMO	2.5	30000	30000	208/230	1	2235.3	61	31.89	16.14	37.24	Outdoor	154.54
SZ36H525ZMO	3	36000	36000	208/230	1	2235.3	63	31.89	16.14	37.24	Outdoor	160.27



WM09H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 9-24K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- EZ Change Blower Assembly
- Refrigerant Leak Sensor
- Occupancy Sensor
- Humidity Sensor
- 3D Airflow (Vert & Horiz Louvers)
- Expanded R/A Surface
- Mount Close to Ceiling
- Cooling Range -13-122F

Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	Dimensions (In.) H	D	W	Application	Ship Wgt (Lbs.)
WM09H525ZMI	0.75	9000	12000	208/230	1	441.4	38	11.81	9.09	33.74	Indoor	29.98
WM12H525ZMI	1	12000	12000	208/230	1	441.4	47	11.81	9.09	33.74	Indoor	29.32
WM18H525ZMI	1.5	18000	18000	208/230	1	635.7	49	12.64	9.69	40.31	Indoor	36.60
WM24H525ZMI	2	24000	29000	208/230	1	812.3	54.5	14.61	11.02	17.13	Indoor	55.56



WM30H525ZMI

INDOOR - 25 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 30-36K

Indoor Unit

- Auto Fan Speed
- TU Coil Corrosion Protection
- i-Clean Blower Technology
- EZ Change Blower Assembly
- Refrigerant Leak Sensor
- Occupancy Sensor
- Humidity Sensor
- 3D Airflow (Vert & Horiz Louvers)
- Expanded R/A Surface
- Mount Close to Ceiling
- Cooling Range 5-122F

Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	Dimensions (In.) H	D	W	Application	Ship Wgt (Lbs.)
WM30H525ZMI	2.5	30000	30000	208/230	1	882.9	53	14.61	11.02	47.13	Indoor	54.67
WM36H525ZMI	3	36000	36000	208/230	1	882.9	49	14.61	11.02	47.13	Indoor	54.67


HSZ09H525ZMO

OUTDOOR - PEAK HEAT 25 SERIES SINGLE ZONE HEAT PUMP (R454B) WALL MOUNT 9-24K

Outdoor Unit

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Intelligent Dusting
- Auto Change Over
- Auto Restart
- Pre Charged for 24.6' Piping
- 208/230v
- Heating Range -22-75F
- 100% Rated Heating Capacity @5F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
HSZ09H525ZMO	0.75	9000	12000	208/230	1	1470.6	56	24.21	12.99	14.57	Outdoor	78.70
HSZ12H525ZMO	1	12000	12000	208/230	1	1471.5	54	24.21	12.99	14.57	Outdoor	78.70
HSZ18H525ZMO	1.5	18000	18000	208/230	1	1764.7	59	29.13	13.46	15.67	Outdoor	107.80
HSZ24H525ZMO	2	24000	29000	208/230	1	2235.3	61.5	34.84	16.14	19.70	Outdoor	141.31


HMZ18H525ZMO

OUTDOOR - PEAK HEAT 25 SERIES MULTI ZONE HEAT PUMP (R454B) FLOOR/CEILING 18-55K

Outdoor Unit

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Intelligent Dusting
- Auto Change Over
- Auto Restart
- Refrigerant Shut Off Valve Standard - Smaller Minimum Room Sizes (24-60K)
- Cooling Range -22-122F
- Heating Range -22-75F
- 100% Rated Heating Capacity @5F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
HMZ18H525ZMO	1.5	19000	20000	208/230	1	2131	61.5	31.89	16.14	37.24	Outdoor	148.15
HMZ27H525ZMO	2.25	27000	27000	208/230	1	2148	61	31.89	16.14	37.24	Outdoor	179.67
HMZ36H525ZMO	3	36000	36000	208/230	1	3037	65	38.39	16.34	38.58	Outdoor	244.71
HMZ48H525ZMO	4	47000	49000	208/230	1	4503	65	52.48	16.34	37.48	Outdoor	276.68
HMZ55H525ZMO	4.5	51000	55000	208/230	1	4503	65	52.48	16.34	37.48	Outdoor	276.68


MZ18H525ZMO

OUTDOOR - 25 SERIES MULTI ZONE HEAT PUMP (R454B) FLOOR/CEILING 18-60K

Outdoor Unit

- Inverter Rotary Compressor
- Gold Fin Corrosion Protection
- Base Pan Heater
- Intelligent Dusting
- Auto Change Over
- Auto Restart
- Refrigerant Shut Off Valve Standard - Smaller Minimum Room Sizes (24-60K)
- Cooling Range -13-122F
- Heating Range -13-75F

								Dimensions (In.)				
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Application	Ship Wgt (Lbs.)
MZ18H525ZMO	1.5	18000	19000	208/230	1	1766	59.5	26.50	13.46	35.04	Outdoor	109.35
MZ27H525ZMO	2.25	27000	27000	208/230	1	2131	61	31.89	16.14	37.24	Outdoor	149.69
MZ36H525ZMO	3	36000	37000	208/230	1	2148	64.5	31.89	16.14	37.24	Outdoor	180.12
MZ48H525ZMO	4	47000	48000	208/230	1	4503	63	52.48	16.34	37.48	Outdoor	254.19
MZ60H525ZMO	5	60000	60000	208/230	1	4502.8	65	52.48	16.34	37.48	Outdoor	270.28

HEAT PUMP SPLIT SYSTEM



TZP14AY18AJ1NA

IC HEAT PUMPS TWO-STAGE

- Fully Louvered Steel Cabinet: Features durable construction to add protection from yard hazards, weather corrosion
- Optimized 7mm Coil Design: Allows for improved airflow, heat transfer and energy consumption
- Easily Accessible Control Box: Ease of installation and serviceability
- Designing for Sustainability with Low GWP: For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%1 lower GWP than previous-generation refrigerants — with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort
- Refrigerant Detection System2: An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation — if excess refrigerant is detected

						Dimensions (In.)			
Part No.	Nominal Tons	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
TZP14AY18AJ1NA	1.5	208/230	1	2401	73	25.17	29.54	29.54	163.00
TZP14AY24AJ2NA	2	208/230	1	2620	73	25.17	33.66	33.66	158.00
TZP14AY30AJ2NA	2.5	208/230	1	3390	72	25.17	33.66	33.66	188.00
TZP14AY36AJ2NA	3	208/230	1	4077	72	25.17	33.66	33.66	217.00
TZP14AY42AJ2NA	3.5	208/230	1	4077	72	35.17	33.66	33.66	253.00
TZP14AY48AJ2NA	4	208/230	1	4096	74	35.17	33.66	33.66	259.00
TZP14AY60AJ2NA	5	208/230	1	4396	74	45.17	35.43	35.43	303.00
TZP14AY36AC2NA	3	208/230	3	4077	72	25.17	33.66	33.66	217.00
TZP14AY48AC2NA	4	208/230	3	4096	74	35.17	33.66	33.66	259.00
TZP14AY60AC2NA	5	208/230	3	4396	74	45.17	35.43	35.43	303.00
TZP14AY36AD2NA	3	460	3	4077	72	25.17	33.66	33.66	217.00
TZP14AY48AD2NA	4	460	3	4096	74	35.17	33.66	33.66	259.00
TZP14AY60AD2NA	5	460	3	4396	74	45.17	35.43	35.43	303.00



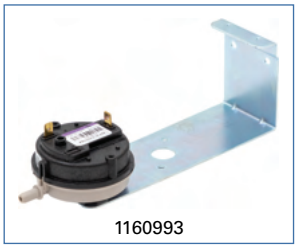
ACCESSORIES

GAS CONVERSION KIT


1013815

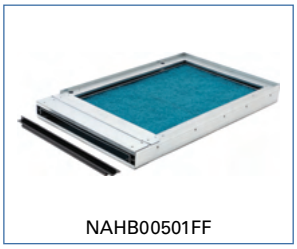
Part No.	Description	Use with
1013815	NAT>LP Gas Conversion kit	N9MP108, N9MP2080, *MPD080
1174906	NAT> LP Gas Conversion Kit, 95+	N9MP1/2080(C), N9MPD0040/060/080(A) all alternate input
1177456	NAT>LP Gas Conversion Kit	All *9MVX(A)
1178473	NAT>LP Gas Conversion Kit	All *9MPX(A)
NAHA00801NG	LP>NAT Gas Conversion Kit	All F8M, G8M, N8MS
NAHA01001NG	LP>NAT Gas Conversion Kit	F9MAC,F9MVT,F9MXT
NAHB01001LP	NAT>LP Gas Conversion Kit	F9MAC,F9MVT,F9MXT
NAHD00901LP	NAT>LP Gas Conversion Kit	(F/G)9MXE, N9MSB, N9MSE, N9MXB
1011789	NAT>LP Gas Conversion kit	VNK,TCK,TNK,TNE,TDE

HIGH ALTITUDE GAS KIT


1160993

Part No.	Description	Use with
1160993	High altitude natural gas kit. Includes burner orifices and restrictor plates.	FBF, NBF, GDE, GNE
1160992	High altitude LP gas kit	FBF, NBF, GDE, GNE
1013812	High Altitude Pressure Switch	N9MP1/2080(C)
1014829	High Altitude Pressure Switch	*9MPT050.100(C), *9MPV050.100(D)
NAHA00201HL	High Altitude Kit	F8MVL, F8MTL
1177769	High Altitude Pressure Switch	*9MVX/MPX100(A)

FILTER KIT


NAHB00501FF

Part No.	Description	Use with
NAHB00501FF	External Bottom Filter Rack, 14"	All 14" F8/G8/F9M,/N8/N9MS models
NAHB00601FF	External Bottom Filter Rack, 17"	All 17" F8/G8/F9M,/N8/N9MS models
NAHB00701FF	External Bottom Filter Rack, 21"	All 21" F8/G8/F9M,/N8/N9MS models
NAHB00801FF	External Bottom Filter Rack, 24"	All 24" F8/G8/F9M,/N8/N9MS models

NEUTRALIZER KIT


NAHA001NK

Part No.	Description	Use with
NAHA001NK	Condensate neutralizer kit for condensing gas furnaces.	All 90+ Furnaces If Required
612833	Condensate neutralizer kit for condensing gas furnaces.	All 90+ Furnaces If Required

HORIZONTAL PRESSURE SWITCH KIT


1011439

Part No.	Description	Use with
1011439	Horizontal pressure switch kit for 90+ horizontal furnace applications.	GNM, GNK, GCK, GND & GNP in Horizontal Application

ACCESSORIES

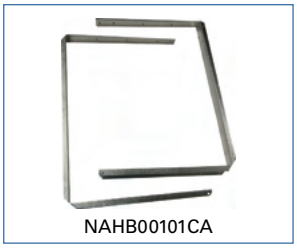

NAHA001CV

VENT KIT

Vent kits for Rheem tankless water heaters.

- 1 required on all installations

Part No.	Description	Use with
NAHA001CV	3" concentric vent kit	F9M, N9MS
NAHA002CV	2" concentric vent kit	F9M, N9MS
NAHA00101VC	Internal Vent Kit (Through the cabinet)	All F9M, N9MS Furnaces
NAHB00301VC	Downflow vent guard (outside cabinet)	All F8M, N8MS counterflow furnaces


NAHB00101CA

COIL ADAPTER

Part No.	Description	Use with
NAHB00101CA	Coil adapter kit; no offset	All F9MAC, F9MVT, F9MXT, F9MXE, N9MSB, N9MSE
NAHB00201CA	Coil adapter kit; 1 offset	All F9MAC, F9MVT, F9MXT, F9MXE, N9MSB, N9MSE
NAHB00301CA	Coil adapter kit; 2 offset	All F9MAC, F9MVT, F9MXT, F9MXE, N9MSB, N9MSE


NAHA002LV

LONG VENT PRESSURE SWITCH KIT

Part No.	Description	Use with
NAHA002LV	Replacement for the standard pressure switch.	N9MP1100J20(C), N9MP2100J20(C), H9MPD100J14(C), H9MPD100J20(C)


NAHA001DH

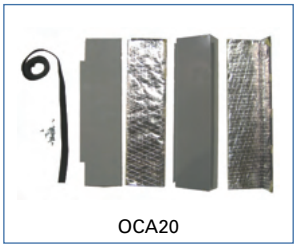
MASONRY CHIMNEY ADAPTER

Part No.	Description	Use with
NAHA001DH	Chimney Adapter (6")	*8MPV075-100(C), *8MPT075-100(B), *8MPN/L050-100(B)
NAHA002DH	Chimney Adapter (7")	*8MPV125(C), *8MPT125(B), *8MPN/L125-150(B)


VTK2

VENT TERMINAL KIT

Part No.	Description	Use with
VTK2	Vent Terminal Kit for 6" Breech Models	OLR160, OUF160


OCA20

COIL ADAPTER

Part No.	Description	Use with
OCA20	Oil Coil Adapter	B15 & F19 Series Cased Coil
OCA24	Oil Coil Adapter	J22 Series Cased Coil

HORIZONTAL INSTALLATION KIT



NAHA00101HV

Part No.	Description	Use with
NAHA00101HV	Trap Grommet (Direct vent application only)	All F9M, N9MS Furnaces

BURNER

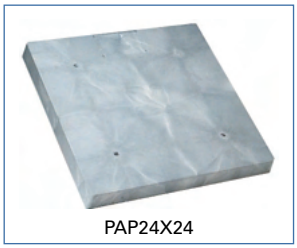
Beckett oil burners for oil furnaces



N01J050

Part No.	Description	Use with
N01J050	Beckett NX56LQ Burner (Direct or Chimney Vent)	[OMF,OLR,OLV,OMV]098
N01J052	Beckett NX56LQ Burner (Direct or Chimney Vent)	[OMF,OMV]112
N01J053	Beckett NX56LC Burner (Direct or Chimney Vent)	[OLV,OMV]154

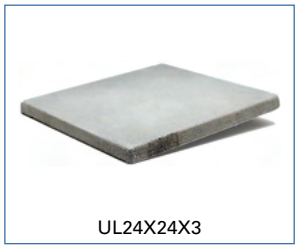
RECTANGULAR, PLASTIC



PAP24X24

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
PAP24X24	24.00	24.00	2.00	8.80
PAP24X36	36.00	24.00	2.00	13.80
PAP30X30	30.00	30.00	2.00	14.50
PAP30X36	36.00	30.00	2.00	17.50
PAP30X40	40.00	30.00	2.00	19.30
PAP36X36	36.00	36.00	2.00	18.90
PAP36X40	40.00	36.00	2.00	22.50
PAP36X48	48.00	36.00	2.00	24.70
PAP18X38X3	38.00	18.00	3.00	16.00
PAP24X24X3	24.00	24.00	3.00	11.10
PAP24X36X3	36.00	24.00	3.00	17.30
PAP30X30X3	30.00	30.00	3.00	18.10
PAP32X32X3	32.00	32.00	3.00	21.00
PAP36X36X3	36.00	36.00	3.00	23.70
PAP36X40X3	40.00	36.00	3.00	31.00
PAP36X48X3	48.00	36.00	3.00	30.90
PAP38X42X3	42.00	38.00	3.00	33.00
PAP52X52X3	52.00	52.00	3.00	48.00

RECTANGULAR, CONCRETE SHELL

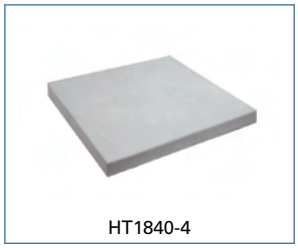


UL24X24X3

A concrete shelled pad with the weight of plastic, strengthened by a fiber-cement coating, flexes instead of cracking or breaking. The textured surface prevents unit slide and allows water drainage, while the engineered core prevents warping and provides a solid bottom to resist settling. Unaffected by soil conditions, UV, temperature extremes, and other weather conditions.

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
UL24X24X3	24.00	24.00	3.00	12.00
UL24X36X3	36.00	24.00	3.00	18.00
UL30X30X3	30.00	30.00	3.00	18.25
UL32X32X3	32.00	32.00	3.00	20.65
UL36X36X3	36.00	36.00	3.00	35.47
UL36X48X3	36.00	48.00	3.00	33.75
UL38X42X3	38.00	42.00	3.00	35.00
UL40X42X3	40.00	42.00	3.00	36.00
UL52X52X3	52.00	52.00	3.00	79.80

HURRICANE PAD™ -T CLASS



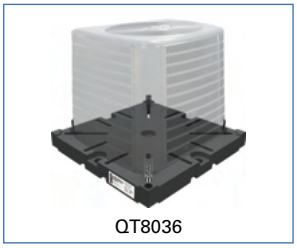
HT1840-4

Designed for higher wind loads - up to 175 MPH. Ideal for South Florida and other heavily threatened areas, the T Class Hurricane Pads are heavier and provide additional concrete for superior anchor pullout strength.

- Steel reinforced
- 3,000 psi minimum concrete, mandatory to meet strict anchor pullout requirements
- Much lighter than solid concrete
- Easier to install
- Will not float (unlike air filled pads)
- Uses standard Tapcon™ brand screws and no inserts are necessary
- Superior screw pullout strength

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
HT1840-4	18.00	40.00	4.00	65.00
HT2436-4	24.00	36.00	4.00	120.00
HT3030-4	30.00	30.00	4.00	127.00
HT3232-4	32.00	32.00	4.00	165.00
HT3636-4	36.00	36.00	4.00	180.00
HT3648-4	36.00	48.00	4.00	250.00
HT4040-4	40.00	40.00	4.00	260.00
HT4242-4	42.00	42.00	4.00	265.00
HT4558-4	45.00	58.00	4.00	350.00

ACCESSORIES


QT8036

QWIKHURRICANE™ PAD

QwikPad® for Condensers is a lightweight, easy-to-install condenser pad that meets wind loading requirements up to 180 mph. Includes corrosion-resistant stainless steel tie-down assemblies to secure the outdoor unit to the pad.

Contains a super absorbent material that acts as a unique gelling agent... Once water is added, it forms a solidus gel that provides freeze protection.

Material: Linear Low Density Polyethylene (LLDPE)

MAINSTREAM ENGINEERING

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
QT8036	36.00	36.00	4.50	29.00
QT8040	40.00	40.00	4.50	35.00


AIRBRACE36

WALL MOUNTING BRACKET

The AIRBRACE is designed to support condensing units, heat pumps and other equipment. It is particularly useful in applications where flooding, snowfall, mud, steep grades and space are a concern.

- 16 Gauge Structural Steel/10 Gauge Mounting Brackets
- Hurricane Straps are 22 Gauge G-90 Steel
- Tested to 150 mph wind load
- Allowable Elevation (150 mph rating) 30ft
- Maximum Weight: Concrete 425 lbs ; Block, Wood or Steel Stud: 375 lbs
- Available in Stainless Steel (special order)

DUCTMATE Industries, Inc.

Part No.	Description
AIRBRACE36	Direct Mount Hanging Bracket To Support Condenser Units 36"L x 30"W
AIRBRACE45	Direct Mount Hanging Bracket To Support Condenser Units 45"L x 36"W
AIRBRACE55	Direct Mount Hanging Bracket To Support Condenser Units 55"L x 48"W

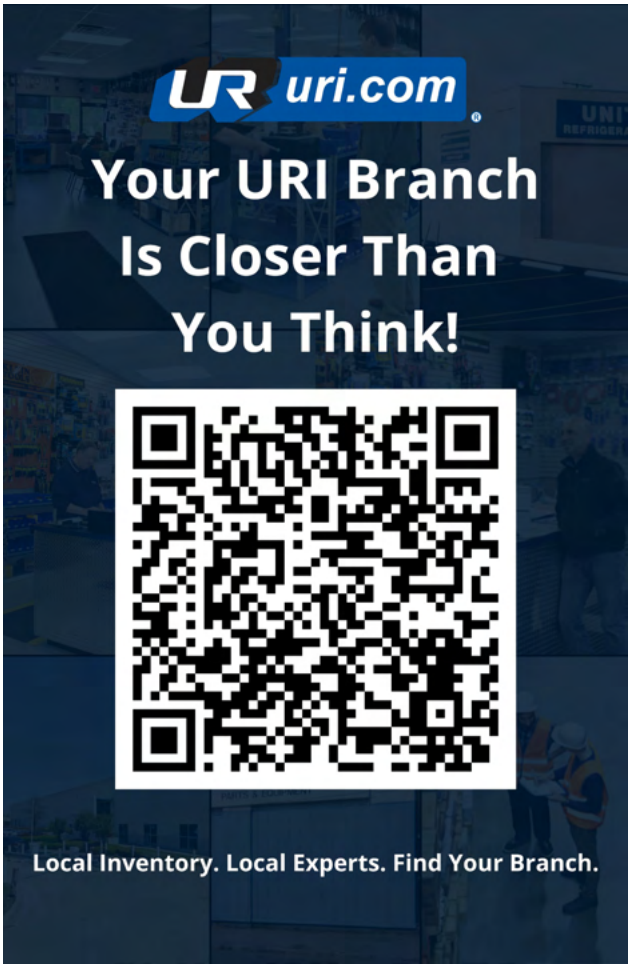

4005S

UNIT ELEVATOR

- Elevates heat pumps and air handling units
- Made of corrosion-resistant plastic
- Allows better condensate drainage
- Helps prevent corrosion of metal base
- Absorbs vibration and noise
- Polymeric mastic included with each unit
- Solid 6" x 6" mounting base
- Top diameter: 4 1/8"

DIVERSITECH

Part No.	Description	Box Qty	Ship Wgt (Lbs.)
4005S*	3" Pump-up	32	0.70
4008S*	6" Pump-up	16	0.95



AIR CONDITIONING EQUIPMENT

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CASED EVAPORATOR COIL



EAM5X24M14A

CASED A EVAPORATOR COIL

Get the most comfort out of your air conditioner or heat pump with an evaporator coil that matches your outdoor unit. This multi-position A coil supports your system efficiency. It features durable all-aluminum construction designed to fit your system and deliver lasting performance.

Thermostatic Expansion Valve (TXV)

- Multi-position airflow design
- Sturdy galvanized steel cabinet
- Lower global warming potential R-454B refrigerant
- Capacity: 1.5 - 5 tons

Arcoaire Air Conditioning & Heating

					Dimensions (In.)		
Part No.	Refrigerant	Nominal Tons	Connection Liquid (In)	Connection Suction (In)	H	W	D
EAM5X24M14A	R454B	2	3/8	5/8	25.81	14.00	20.63
EAM5X24M17A	R454B	2	3/8	5/8	25.81	17.00	20.63
EAM5X25M17A	R454B	2	3/8	5/8	29.75	17.00	20.63
EAM5X30M14A	R454B	2.5	3/8	3/4	25.81	14.00	20.63
EAM5X30M17A	R454B	2.5	3/8	3/4	25.81	17.00	20.63
EAM5X36M17A	R454B	3	3/8	3/4	29.75	17.00	20.63
EAM5X37M17A	R454B	3	3/8	3/4	29.75	17.00	20.63
EAM5X37M21A	R454B	3	3/8	3/4	29.75	21.00	20.63
EAM5X42M21A	R454B	3.5	3/8	7/8	29.75	21.00	20.63
EAM5X43M21A	R454B	3.5	3/8	7/8	29.75	21.00	20.63
EAM5X48M21A	R454B	4	3/8	7/8	29.75	21.00	20.63
EAM5X60M24A	R454B	5	3/8	7/8	35.00	24.00	20.63
EAM5X61M21A	R454B	5	3/8	7/8	35.00	21.00	20.63
EAM5X61M24A	R454B	5	3/8	7/8	35.80	24.00	23.40



EVD5X18M14A

CASED V EVAPORATOR COIL WITH POWER-V TECHNOLOGY

Patent-pending evaporator coil with Power-V technology features a V-shape coil design provides excellent heat transfer over the coil needed to keep your system operating at peak energy efficiency and delivering consistent comfort. The V-coil design has a lighter, corrosion-resistant aluminum construction that increases system efficiency and durability. The all-aluminum recyclable coils support our respect for the environment while providing durable and lasting resistance to multiple sources of corrosion.

- Thermostatic Expansion Valve (TXV)
- Vertical upflow/downflow design
- Sturdy galvanized steel cabinet
- Lower global warming potential R-454B refrigerant
- Capacity: 1.5 - 5 tons

Arcoaire Air Conditioning & Heating

					Dimensions (In.)		
Part No.	Refrigerant	Nominal Tons	Connection Liquid (In)	Connection Suction (In)	H	W	D
EVD5X18M14A	R454B	1.5	3/8	5/8	14.69	14.00	20.63
EVD5X19M17A	R454B	1.5	3/8	5/8	19.44	17.00	20.63
EVD5X24M14A	R454B	2	3/8	5/8	14.69	14.00	20.63
EVD5X24M17A	R454B	2	3/8	5/8	14.69	17.00	20.63
EVD5X25M17A	R454B	2	3/8	5/8	19.44	17.00	20.63
EVD5X30M14A	R454B	2.5	3/8	3/4	17.06	14.00	20.63
EVD5X30M17A	R454B	2.5	3/8	3/4	19.44	17.00	20.63
EVD5X31M17A	R454B	2.5	3/8	3/4	25.81	17.00	20.63
EVD5X36M17A	R454B	3	3/8	3/4	19.44	17.00	20.63
EVD5X36M21A	R454B	3	3/8	3/4	17.06	21.00	20.63
EVD5X37M21A	R454B	3	3/8	3/4	21.94	21.00	20.63
EVD5X38M17A	R454B	3	3/8	3/4	29.75	17.00	20.63
EVD5X42M17A	R454B	3.5	3/8	7/8	19.25	17.00	20.63
EVD5X42M21A	R454B	3.5	3/8	7/8	17.06	21.00	20.63

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EVAPORATOR COIL

CASED EVAPORATOR COIL

					Dimensions (In.)		
Part No.	Refrigerant	Nominal Tons	Connection Liquid (In)	Connection Suction (In)	H	W	D
EVD5X42M24A	R454B	3.5	3/8	7/8	26.31	24.00	20.63
EVD5X48M21A	R454B	4	3/8	7/8	21.94	21.00	20.63
EVD5X48M24A	R454B	4	3/8	7/8	22.06	24.00	20.63
EVD5X49M24A	R454B	4	3/8	7/8	26.31	24.00	20.63
EVD5X60M21A	R454B	5	3/8	7/8	29.75	21.00	20.63
EVD5X60M24A	R454B	5	3/8	7/8	26.31	24.00	20.63
EVD5X61M24A	R454B	5	3/8	7/8	36.30	24.00	20.63



EVM5X24M14A

CASED V EVAPORATOR COIL WITH POWER-V TECHNOLOGY

Patent-pending multipoise evaporator coil with Power-V technology features a V-shape coil design provides excellent heat transfer over the coil needed to keep your system operating at peak energy efficiency and delivering consistent comfort. The V-coil design has a lighter, corrosion-resistant aluminum construction that increases system efficiency and durability. The all-aluminum recyclable coils support our respect for the environment while providing durable and lasting resistance to multiple sources of corrosion. The multipoise design allows the flexibility for the coil to be installed in multiple orientations, including upflow, downflow and horizontal applications.

Arcoaire Air Conditioning & Heating

					Dimensions (In.)		
Part No.	Refrigerant	Nominal Tons	Connection Liquid (In)	Connection Suction (In)	H	W	D
EVM5X24M14A	R454B	2	3/8	5/8	14.69	14.00	20.63
EVM5X24M17A	R454B	2	3/8	5/8	14.69	17.00	20.63
EVM5X25M17A	R454B	2	3/8	5/8	19.44	17.00	20.63
EVM5X30M17A	R454B	2.5	3/8	3/4	19.44	17.00	20.63
EVM5X31M17A	R454B	2.5	3/8	3/4	25.81	17.00	20.63
EVM5X36M17A	R454B	3	3/8	3/4	19.44	17.00	20.63
EVM5X42M21A	R454B	3.5	3/8	7/8	19.44	21.00	20.63
EVM5X43M21A	R454B	3.5	3/8	7/8	21.94	21.00	20.63
EVM5X48M21A	R454B	4	3/8	7/8	21.94	21.00	20.63
EVM5X49M21A	R454B	4	3/8	7/8	29.75	21.00	20.63
EVM5X60M21A	R454B	5	3/8	7/8	29.75	21.00	20.63
EVM5X60M24A	R454B	5	3/8	7/8	26.31	24.00	20.63
EVM5X61M24A	R454B	5	3/8	7/8	35.00	24.00	20.63



ESH5X24M12A

CASED HORIZONTAL SLAB EVAPORATOR COIL

Get the most comfort out of your air conditioner or heat pump with an evaporator coil that matches your outdoor unit. This horizontal slab coil aids narrow space installations and supports your system efficiency. It features durable all-aluminum construction designed to fit your system and deliver lasting performance.

Arcoaire Air Conditioning & Heating

					Dimensions (In.)		
Part No.	Refrigerant	Nominal Tons	Connection Liquid (In)	Connection Suction (In)	H	W	D
ESH5X24M12A	R454B	2	3/8	5/8	28.38	12.00	24.06
ESH5X30M12A	R454B	2.5	3/8	3/4	28.38	12.00	24.06
ESH5X36M12A	R454B	3	3/8	3/4	28.38	12.00	28.81
ESH5X42M12A	R454B	3.5	3/8	7/8	28.38	12.00	28.81
ESH5X48M12A	R454B	4	3/8	7/8	30.38	12.00	28.81
ESH5X60M12A	R454B	5	3/8	7/8	30.38	12.00	38.94

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN COIL



AH18H525ZMI

VARIABLE SPEED DUCTED AHU

- Constant CFM
- 4-Way Multi Position
- Aluminum Tube / Fin Coil
- Up to 0.8" W.C. Static
- Refrigerant Leak Sensor
- Communicating & 24v Control Options

			Dimensions (In.)			
Part No.	Nominal Tons	CFM	H	W	D	Ship Wgt (Lbs.)
AH18H525ZMI	1.5	618	45.00	21.02	17.52	130.00
AH24H525ZMI	2	824	45.00	21.02	17.52	130.00
AH30H525ZMI	2.5	988.8	49.02	21.02	21.02	138.00
AH36H525ZMI	3	1189	49.02	21.02	21.02	160.00



D5FUAAH18XAK

PERFORMANCE CROSSOVER AIR HANDLER 18K TO 60K

The D5FUAA air handler offers is an adaptable solution that can be installed in both horizontal and vertical installations. This unit can connect to the D5CUHA or D5CURA heat pump for single-zone applications. A unique indoor air handler capable of connecting to a D5CUHA OR D5CURA heat pump system.

- Sound: as low as 25.5 decibels1
- 1.5 – 5 Ton

115/208/230V

						Dimensions (In.)			
Part No.	Nominal Tons	Refrigerant	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
D5FUAAH18XAK	1.5	R454B	618.03	115-208/230	1	45.00	21.02	17.52	105.82
D5FUAAH24XAK	2	R454B	824.04	115-208/230	1	45.00	21.02	17.52	105.60
D5FUAAH30XAK	2.5	R454B	988.85	115-208/230	1	49.02	21.02	21.02	128.97
D5FUAAH36XAK	3	R454B	1188.97	115-208/230	1	49.02	21.02	21.02	129.41
D5FUAAH48XAK	4	R454B	1600.99	115-208/230	1	52.99	21.02	24.49	162.92
D5FUAAH60XAK	5	R454B	1807	115-208/230	1	52.99	21.02	24.49	162.92



D5FUHAH24XAK

QUIETCOMFORT CROSSOVER AIR HANDLER 24K, 36K, AND 60K

The D5FUHA air handler offers is an adaptable solution that can be installed in both horizontal and vertical installations. This unit can connect to the D5CUHA heat pump for single-zone applications. A unique indoor air handler capable of connecting to a D5CUHA heat pump system.

- Sound: as low as 33 decibels[1]
- 1.5 – 5 Ton
- 115/208/230V

EHKMD (5-25KW): auxiliary heat (optional accessory)

						Dimensions (In.)			
Part No.	Nominal Tons	Refrigerant	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
D5FUHAH24XAK	2	R454B	759.3	115-208/230	1	53.88	14.50	21.50	129.41
D5FUHAH36XAK	3	R454B	1147.8	115-208/230	1	58.13	17.50	21.50	129.41
D5FUHAH60XAK	5	R454B	1648.1	115-208/230	1	60.00	21.50	21.50	129.41

FAN COIL



F5MA5X18L1AA

PERFORMANCE 115V FAN COIL

115V fan coil is a cost-effective solution providing comfort and high efficiency. It delivers great performance without requiring you to upgrade your electrical. No electric heat available.

- Mechanical Thermostatic Expansion Valve (TXV)
- Sturdy galvanized steel cabinet
- Lower global warming potential R-454B refrigerant
- Compact design as narrow as 14.5?
- Capacity: 1.5–5 tons

Arcoaire Air Conditioning & Heating

						Dimensions (In.)			
Part No.	Nominal Tons	Refrigerant	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F5MA5X18L1AA	1.5	R454B	525	115	1	42.69	22.06	14.31	120.00
F5MA5X24L1BA	2	R454B	700	115	1	49.63	22.06	17.63	131.00
F5MA5X30L1BA	2.5	R454B	875	115	1	49.63	22.06	17.63	148.00
F5MA5X36L1BA	3	R454B	1050	115	1	49.63	22.06	17.63	148.00
F5MA5B42L1CA	3.5	R454B	1225	115	1	53.44	22.06	21.13	166.50
F5MA5B48L1CA	4	R454B	1400	115	1	53.44	22.06	21.13	182.50
F5MA5B60L1DA	5	R454B	1750	115	1	59.19	22.06	24.69	210.50



FCMA5X24L0BA

ION SYSTEM VARIABLE-SPEED FAN COIL

Get increased comfort and efficiency with our variable-speed communicating fan coil. It can help your system operate more efficiently by creating more consistent airflow throughout your home, helping gain SEER2 and HSPF2 rating points for some systems. Enjoy enhanced comfort levels with more even indoor temperatures all year long. And when temperatures are smoldering outside, you can feel a little cooler inside as well with better humidity control capabilities. Create a complete communicating system for even more control when you pair it with the Ion™ System Control with Wi-Fi® capability and communicating outdoor unit.

- Thermostatic Expansion Valve (Mechanical Connectors)
- Sturdy galvanized steel cabinet
- Compatible control: Ion™ System Control installed as part of a complete communicating system for full function and efficiency capability, Wi-Fi® remote access convenience, and intelligent diagnostics
- Lower global warming potential R-454B refrigerant
- Capacity: 2–5 tons
- Standard size filter compatible

Arcoaire Air Conditioning & Heating

							Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	H	D	Ship Wgt (Lbs.)
FCMA5X24L0BA*	2	R454B	24000	1050	208/230	1	42.69	22.06	124.00
FCMA5B36L0CA*	3	R454B	36000	1225	208/230	1	53.44	22.06	146.00
FCMA5B48L0CA*	4	R454B	48000	1400	208/230	1	53.44	22.06	168.00
FCMA5B60L0DA*	5	R454B	60000	1750	208/230	1	59.19	22.06	203.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


FHMA5B60L0DA

PERFORMANCE COMPACT FAN COIL

Comfort is key when you pair your outdoor unit with a compatible fan coil—and high efficiency is a plus. Our compact multi-speed fan coil delivers more comfort options while delivering energy-saving airflow. It's designed for standard and tight spaces with multi-position installation to fit your home's needs.

- Mechanical Thermostatic Expansion Valve (TXV)
- Sturdy galvanized steel cabinet
- Lower global warming potential R-454B refrigerant
- Compact design as narrow as 14.5?
- Capacity: 1.5–5 tons

Arcoaire Air Conditioning & Heating

						Dimensions (In.)			
Part No.	Nominal Tons	Refrigerant	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
FHMA5B60L0DA	5	R454B	1750	208/230	1	59.19	22.06	24.00	210.00
FHMA5X18L0AA	1.5	R454B	525	208/230	1	42.69	22.06	14.00	120.00
FHMA5X24L0BA	2	R454B	700	208/230	1	49.63	22.06	17.00	131.00
FHMA5X30L0BA	2.5	R454B	875	208/230	1	49.63	22.06	17.00	148.00
FHMA5X36L0BA	3	R454B	1050	208/230	1	49.63	22.06	17.00	148.00
FHMA5X42L0CA	3.5	R454B	1125	208/230	1	48.63	22.06	21.00	166.00
FHMA5X48L0CA	4	R454B	1400	208/230	1	53.44	22.06	21.00	182.00


FTMA5X24L0BA

QUIETCOMFORT FAN COIL

Reducing energy use with your air conditioner or heat pump is probably something you won't mind hearing. Our variable-speed fan coil can move the air through your home more efficiently and may lead to a boost in SEER2 rating (cooling efficiency) on some systems. Savor enhanced comfort levels with temperature and humidity control , even when temperatures are smoldering.

- Thermostatic Expansion Valve (Mechanical Connectors)
- Sturdy galvanized steel cabinet
- Compatible thermostat: three-stage heat/two-stage cool with humidity control
- Lower global warming potential R-454B refrigerant
- Capacity: 2–5 tons

Arcoaire Air Conditioning & Heating

							Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	H	D	Ship Wgt (Lbs.)
FTMA5X24L0BA*	2	R454B	24000	1050	208/230	1	42.69	22.06	124.00
FTMA5B36L0CA*	3	R454B	36000	1225	208/230	1	53.44	22.06	146.00
FTMA5B48L0CA*	4	R454B	48000	1400	208/230	1	53.44	22.06	168.00
FTMA5B60L0DA*	5	R454B	60000	1750	208/230	1	59.19	22.06	203.00


FMA5L1800AL

PERFORMANCE MULTI-FAMILY STANDARD-EFFICIENCY FAN COIL

Feel the difference in your home with this multi 3-speed fan coil designed for vertical applications and installation in tight spaces. It seamlessly works with outdoor units to deliver more comfort options.

- Designed for wall-hung or flush mounted installation
- Sturdy galvanized steel cabinet
- Compatible thermostat: two-stage heat/one-stage cool
- Lower global warming potential R-454B refrigerant
- Accommodates standard size filters
- Capacity: 1.5–3 tons
- Thermostatic Expansion Valve (TXV)

Arcoaire Air Conditioning & Heating

							Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	H	D	Ship Wgt (Lbs.)
FMA5L1800AL*	1.5	R454B	18000	650	208/230	1	36.50	15.00	84.00
FMA5L2400AL*	2	R454B	24000	800	208/230	1	36.50	15.00	84.00
FMA5L3000AL*	2.5	R454B	30000	1130	208/230	1	39.50	19.00	99.00
FMA5L3600AL*	3	R454B	36000	1150	208/230	1	39.50	19.00	99.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN COIL



FMA5X1800AL

PERFORMANCE MULTI-FAMILY HIGH-EFFICIENCY FAN COIL

This high-efficiency multi 5-speed fan coil is designed for vertical applications and installation in tight spaces. It works with outdoor units to deliver high-efficiency operation and more comfort options.

- Sturdy galvanized steel cabinet
- Designed for multi-family units for wall hung or flush mounted installation
- Compatible thermostat: two-stage heat/one-stage cool
- Lower global warming potential R-454B refrigerant
- Accommodates standard size filters
- Capacity: 1.5–3 tons
- Thermostatic Expansion Valve (TXV)

							Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	H	D	Ship Wgt (Lbs.)
FMA5X1800AL*	1.5	R454B	18000	675	208/230	1	36.50	15.00	84.00
FMA5X2400AL*	2	R454B	24000	900	208/230	1	36.50	15.00	84.00
FMA5X3000AL*	2.5	R454B	30000	1125	208/230	1	39.50	19.00	99.00
FMA5X3600AL*	3	R454B	36000	1350	208/230	1	36.50	19.00	99.00



FMC5X1800AL

PERFORMANCE CEILING CASED FAN COIL

This compact, cost-effective horizontal cased fan coil is specifically designed for ceiling-mounted multi-family applications, offering a space-saving solution while delivering reliable comfort throughout the living space.

- Thermostatic Expansion Valve (TXV) (when cased)
- Sturdy galvanized steel cabinet
- Designed for ceiling installation
- Compatible thermostat: two-stage heat/one-stage cool
- Lower global warming potential R-454B refrigerant
- Capacity: 1.5–3 tons

								Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	dB(A)	H	D	Ship Wgt (Lbs.)
FMC5X1800AL*	1.5	R454B	18000	600	208/230	1	54	11.00	26.38	116.00
FMC5X2400AL*	2	R454B	24000	800	208/230	1	54	11.00	26.38	116.00
FMC5X3000AL*	2.5	R454B	30000	1000	208/230	1	62.5	11.00	26.38	142.00
FMC5X3600AL*	3	R454B	36000	1200	208/230	1	62.5	11.00	28.38	142.00



FMC5Z3000AL

PERFORMANCE CEILING CASED FAN COIL

This compact, high-efficiency horizontal cased fan coil is ideal for ceiling-mounted multi-family applications, providing reliable comfort and energy efficiency with 5-speed air delivery.

- Thermostatic Expansion Valve (TXV)
- Sturdy galvanized steel cabinet
- Designed for ceiling installation
- Compatible thermostat: two-stage heat/one-stage cool
- Lower global warming potential R-454B refrigerant
- Capacity: 1.5–3 tons

								Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	dB(A)	H	D	Ship Wgt (Lbs.)
FMC5Z3000AL*	2	R454B	30000	1000	208/230	1	62.5	11.00	28.38	142.00
FMC5Z3600AL*	3	R454B	36000	1200	208/230	1	62.5	11.00	28.38	95.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



FMU5X1800AL

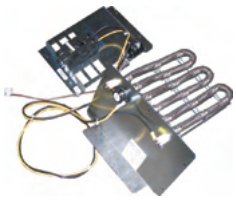
PERFORMANCE CEILING UNCASED FAN COIL

This compact, cost-effective horizontal uncased fan coil is specifically designed for ceiling-mounted multi-family applications, offering a space-saving solution while delivering reliable comfort throughout the living space.

- Thermostatic Expansion Valve (TXV) (when cased)
- Designed for ceiling installation
- Compatible thermostat: two-stage heat/one-stage cool
- Lower global warming potential R-454B refrigerant
- Capacity: 1.5–3 tons

Arcoaire Air Conditioning & Heating

								Dimensions (In.)		
Part No.	Nominal Tons	Refrigerant	Cooling Capacity (BTUH)	CFM	Voltage	Phase	dB(A)	H	D	Ship Wgt (Lbs.)
FMU5X1800AL*	1.5	R454B	18000	600	208/230	1	54	10.25	26.38	75.00
FMU5X2400AL*	2	R454B	24000	800	208/230	1	54	10.25	26.38	75.00
FMU5X3000AL*	2.5	R454B	30000	1000	208/230	1	62.5	10.25	26.38	95.00



EHAA05KB

ELECTRIC HEAT ACCESSORIES

For PAF3, PHF3 package units. See restrictions for 10-20 kW models. Nominal 208-230 values are rated at 240 volts. Derating multipliers are 0.918 for 230 volts, 0.751 for 208 volts

Arcoaire Air Conditioning & Heating

						Nominal Capacity (BTUH)				Heater Amps	
Part No.	Description	Voltage	Use with	kW Rating	Nominal Cap. (BTUH)	at 208V	at 240V	kW at 208V	kW at 240V	at 208V	at 240V
EHAA05KB*	With Breaker	208-240	PAF3, PHF3 1F (All)	5.0	17065	12798	17065	3.8	5.0	18.0	20.8
EHAA05KN*	Less Breaker	208-240	PAF3, PHF3 1F (All)	5.0	17065	12798	17065	3.8	5.0	18.0	20.8
EHAA07KB*	With Breaker	208-240	PAF3, PHF3 1F (All)	7.5	25598	19113	25598	5.6	7.5	27.1	31.3
EHAA07KN*	Less Breaker	208-240	PAF3, PHF3 1F (All)	7.5	25598	19113	25598	5.6	7.5	27.1	31.3
EHAA10KB*	With Breaker	208-240	PAF3, PHF3 1F (All)	10.0	34130	25598	34130	7.5	10.0	36.2	41.7
EHAA10KN*	Less Breaker	208-240	PAF3, PHF3 1F (24-30)	10.0	34130	25598	34130	7.5	10.0	36.2	41.7
EHAA15KB*	With Breaker	208-240	PAF3, PHF3 1F (30-54)	15.0	51195	38567	51195	11.3	15.0	54.2	62.5
EHK05AKB*	With Breaker	208-240	FS, FV, FE	5.0	17000	12700	17000	3.8	5.0	18.1	20.4
EHK05AKN*	Less Breaker	208-240	FS, FV, FE	5.0	17000	12700	17000	3.8	5.0	18.1	20.4
EHK07AKB*	With Breaker	208-240	FS, FV, FE	8.0	25500	19100	25500	6	8	28.9	34
EHK09AKCN*	Less Breaker	208-240	FS, FV, FE	9.0	30700	23200	30700	6.8	9	32.8	39
EHK10AKB*	With Breaker	208-240	FS, FV, FE	10.0	34100	25500	34100	7.5	10.0	36.2	43.6
EHK10AKN*	Less Breaker	208-240	FS, FV, FE	10.0	34100	25500	34100	7.5	10.0	36.2	43.6
EHK15AKF*	With Fuse	208-240	FS, FV, FE	15.0	51100	38500	51100	11.3	15.0	54.2	62.2
EHK20AKB*	With Breaker	208-240	FCM	20.0	68000	51100	68000	15.0	20.0	72.3	87
EHK20AKF*	With Fuse	208-240	FCM	20.0	68000	51100	68000	15.0	20.0	72.3	87
EHK25AHCF*	With Fuse	208-240	FCM (48, 60)	24.0	81900	61400	81900	18.0	24.0	86.7	104
EHK30AHCF*	With Fuse	208-240	FCM (48, 60)	30.0	102000	76500	102000	22.5	30.0	109	130

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN COIL

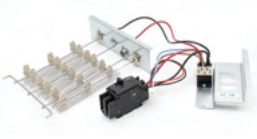
SINGLE PHASE WITH BREAKER



EHIA05KB10

				Nominal Capacity (BTUH)				Heater Amps	
Part No.	Description	Voltage	Use with	at 208V	at 240V	kW at 208V	kW at 240V	at 208V	at 240V
EHIA05KB10*	With Breaker	208/230	MF*B1,MV*B1, all	16378	12283	3.6	4.8	17.3	20
EHIA05KN10*	Less Breaker	208/230	MF*B1,MV*B1, all	16378	12283	3.6	4.8	17.3	20
EHIA07KB10*	With Breaker	208/230	MF*B1,MV*B1, all	24567	18425	5.4	7.2	26.0	30.0
EHIA07KN10*	Less Breaker	208/230	MF*B1,MV*B1, all	24567	18425	5.4	7.2	26.0	30.0
EHIA10KB10*	With Breaker	208/230	MF*B1,MV*B1, all	32756	24567	7.2	9.6	34.6	40.0
EHIA10KN10*	Less Breaker	208/230	MF*B1,MV*B1, all	32756	24567	7.2	9.6	34.6	40.0
EHIA15KB10*	With Breaker	208/230	MF*B1,MV*B1, all	49134	36851	10.8	14.4	51.9	60.0
EHIA20KB10*	With Breaker	208/230	MF*B1,MV*B1, 12 to 20	65513	49134	14.4	19.2	69.2	80.0
EHIA25KB10*	With Breaker	208/230	MF*B1,MV*B1, 16, 20	81891	61418	18.0	24.0	86.5	100.0
EHIA10HB10*	With Breaker	208/230	MF*B1,MV*B1, all	32756	24567	7.2	9.6	20.0	23.1
EHIA15HB10*	With Breaker	208/230	MF*B1,MV*B1, all	49134	36851	10.8	14.4	30.0	34.7
EHIA20HB10*	With Breaker	208/230	MF*B1,MV*B1, 12 to 20	65513	49134	14.4	19.2	40.0	46.2
EHIA25HB10*	With Breaker	208/230	MF*B1,MV*B1, 16, 20	81891	61418	18.0	24.0	50.0	57.8

FAN COIL HEATER



EHK205B

Part No.	Voltage	Use with
EHK205B*	208/230	FMA4X, FMA4P, 18-36
EHK208B*	208/230	FMA4X, FMA4P, 18-36
EHK305B*	208/230	FMU4P, FMC4P
EHK210B*	208/230	FMA4X, FMA4P, 18-36
EHK308B*	208/230	FMU4P, FMC4P
EHK310B*	208/230	FMU4P, FMC4P
EHC05BKB	208/230	2-5 Ton Air Handlers
EHC05BKN	208/230	2-5 Ton Air Handlers
EHC07BKB	208/230	2-5 Ton Air Handlers
EHC07BKN	208/230	2-5 Ton Air Handlers
EHC10BKB	208/230	2-5 Ton Air Handlers
EHC10BKN	208/230	2-5 Ton Air Handlers
EHC15BKB	208/230	2-5 Ton Air Handlers
EHC20BKB	208/230	2.5-5 Ton Air Handlers
EHC05CKB	208/230	1.5 Ton Air Handlers
EHC18BHN	208/230	3.5-5 Ton Air Handlers
EHC05CKN	208/230	1.5 Ton Air Handlers
EHC07CKB	208/230	1.5 Ton Air Handlers
EHC07CKN	208/230	1.5 Ton Air Handlers
EHC10CKB	208/230	1.5 Ton Air Handlers

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Voltage	Use with
EHC10CKN	208/230	1.5 Ton Air Handlers
EHKMA10KN	208/230	10 KW - Air handler sizes 24, 36, 48
EHKMA05KN	208/230	5 KW - Air handler sizes 24, 36, 48
EHKMA15KN	208/230	15 KW - Air handler sizes 36, 48
EHKMA20KN	208/230	20 KW - Air handler size 48



EBAC01DSC

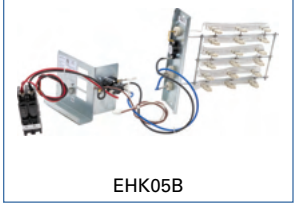
ACCESSORIES

For FSM, FEM, FSU models. FEM, FSM models 3500 and smaller use slope coils, 3600 and larger use A coils. Horizontal drain pan kits and no heat plug kits are factory installed in FSM, FEM models.

EBAC01GSK is required for horizontal right and downflow applicatios in FSM, FEM models

Arcoaire Air Conditioning & Heating

Part No.	Use with	Description
EBAC01DSC	All Heaters 5-10 kW	Disconnect Kit
EBAC01NCB	1800	Downflow Base Kit
EBAC02NCB	2400,3000	Downflow Base Kit
EBAC03NCB	3500-4800	Downflow Base Kit
EBAC04NCB	6000	Downflow Base Kit
EBAC01DFS	1800(ALL)-3600(FSU)	Downflow Conversion Kit, Slope Coil
EBAC02DFA	4200-6000, 3600(FSM/FEM)	Downflow Conversion Kit, A Coil
EBAC01SPK	All 15-20 kW fused heaters	Single Point Wiring Kit
EBAC01FKS	1800	Permanent Filter Kit
EBAC01FKM	2400,3000	Permanent Filter Kit
EBAC01FKL	3500-4800	Permanent Filter Kit
EBAC01FKX	6000	Permanent Filter Kit
EBAC01PLG	All FSU	No Heat Plug Kit
EBAC01DPK	1800 FSU	Horizontal Drain Pan Kit-Slope Coil
EBAC02DPK	2400,3000 FSU	Horizontal Drain Pan Kit-Slope Coil
EBAC03DPK	3600 FSU	Horizontal Drain Pan Kit-Slope Coil
EBAC04DPK	4200 FSU	Horizontal Drain Pan Kit-A Coil
EBAC05DPK	4800 FSU	Horizontal Drain Pan Kit-A Coil
EBAC06DPK	6000 FSU	Horizontal Drain Pan Kit-A Coil
EBAC01GSK	All	Horizontal Gasket Kit



EHK05B

ELECTRIC STRIP HEATER

BOSCH Invented for life

		Dimensions (In.)				
Part No.	Voltage	H	W	L	Use with	Ship Wgt (Lbs.)
EHK05B	208-240	8.00	11.50	19.00	For use with BVA series of air handlers	13.00
EHK08B	208-240	13.90	7.80	9.50	For use with BVA series of air handlers	13.00
EHK10B	208-240	13.50	7.50	8.50	For use with BVA series of air handlers	4.52
EHK15B	208-240	16.80	9.70	10.00	For use with BVA series of air handlers	16.00
EHK20B	208-240	17.50	9.70	9.70	For use with BVA series of air handlers	10.00

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FAN COIL


C1

AQUECOIL

- Designed to fit your air handler; ICP may also fit Carrier/BDP models, Thermal Zone may also fit newer Rheem/Ruud models
- Heavy duty cabinet made of rust-proof aluminum
- Baked enamel finish for a polished look
- Fully insulated with high R rigid foam
- Uses any hot water source with sufficient BTUH

Part No.	W (In.)	Nominal Tons	Use with	Ship Wgt (Lbs.)
C1	14.31	1.5, 2	ICP	18.00
C2	17.62	3	ICP	20.00
C3	21.12	3.5, 4	ICP	22.00
C-4	24.69	5	ICP	25.00
C-5	25.75	6	ICP	30.00
RH1	17.50	1.5, 2, 2.5, 3	Thermal Zone	20.00
RH2	21.00	3, 3.5, 4	Thermal Zone	22.00
RH3	24.50	4, 5	Thermal Zone	25.00



MOBILE HOME



EBE10A

ELECTRIC FURNACE, EBE SERIES

Guardian® EB Series electric furnaces feature a zero clearance feature, allowing the furnace to be installed where space is at a premium. They also feature a built-in coil cabinet for ease of installation and efficient operating performance, as well as a multi-speed blower, capable of handling cooling and heat pump loads.

- Zero clearance feature allows the furnace to be installed where space is at a premium
- Built-in coil cabinet allows for ease of installation and highly efficient operating performance
- Multi-speed blower capable of handling cooling and heat pump loads
- 2-year parts limited warranty

GUARDIAN Always on Duty.

				Dimensions (In.)		
Part No.	**Input kW**	**Input (BTUH)**	**Output (BTUH)**	**H**	**W**	**Ship Wgt (Lbs.)**
EBE10A	10.0	31000	31000	51.50	19.50	155.00
EBE12A	12.0	36000	36000	51.50	19.50	155.00
EBE17A	17.0	52000	52000	51.50	19.50	169.00
EBE20A	20.0	61000	61000	51.50	19.50	137.00
EBE23A	23.0	71000	71000	51.50	19.50	145.00



DGAX056BDTA

GAS FURNACE, DGAX SERIES

Guardian® DGAX Series gas furnaces feature louvered front door panels for durability, offer electronic hot surface ignition to save fuel costs while increasing dependability and fit standard manufactured housing space for ease of installation.

- Louvered front door panel construction for durability
- Fits standard manufactured housing space for ease of installation
- Electronic hot surface ignition saves fuel costs with increased dependability and reliability

GUARDIAN Always on Duty.

				Dimensions (In.)		
Part No.	**Input kW**	**Input (BTUH)**	**Output (BTUH)**	**H**	**W**	**Ship Wgt (Lbs.)**
DGAX056BDTA	16.4	56000	45000	76.00	19.50	86.00
DGAX070BDTA	20.5	70000	56000	76.00	19.50	86.00
DGAX077BDTA	22.5	77000	62000	76.00	19.50	86.00
DGAX090BDTA	26.3	90000	72000	76.00	19.50	86.00

DRAIN PAN


DP1838S

SECONDARY, PLASTIC

- Rolled edges for durability
- Ribbed bottoms for rigidity
- Reinforced corners for strength
- 3/4" PVC fittings attached to each pan
- No seams, no rust, no leakage
- Depth 2"; Overall dimension + 2"
- "S" suffix = Drain line outlets in short side
- "L" suffix = Drain line outlets in long side

DIVERSITECH

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP1838S	20.00	40.00	2.00	2.84
DP2424L	26.00	26.00	2.00	2.20
DP2739L	27.00	39.00	2.00	4.12
DP2748L	29.00	50.00	2.00	4.80
DP2763L	29.00	65.00	2.00	6.20
DP3030L	32.00	32.00	2.00	3.18
DP3050L	32.00	52.00	2.00	5.20
DP3060L	32.00	62.00	2.00	5.74
DP3263L	34.00	65.00	2.00	6.50
DP3660L	38.00	62.00	2.00	6.80


DP24X48

SECONDARY, PLASTIC

- Includes drain fitting

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP24X48	24.00	48.00	2.50	2.00
DP27X48	27.00	48.00	2.50	5.00
DP27X64	27.00	64.00	2.00	5.00
DP30X60	30.00	60.00	2.00	5.00


DP2424-26

SECONDARY, METAL

Galvanized auxiliary drain pans with adapter fitting

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP2424-26	24.00	24.00	2.00	1.01
DP2428-26	24.00	28.00	2.00	4.49
DP2626-26	26.00	26.00	2.00	4.52
DP2424-Z4	24.00	24.00	2.00	6.40
DP2634-26	26.00	34.00	2.00	4.52
DP2648	26.00	48.00	2.00	10.00

Continued on next page

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP2653	26.00	53.00	2.00	10.00
DP2658	26.00	58.00	2.00	10.00
DP2860	28.00	60.00	2.00	12.80
DP3030-26	30.00	30.00	2.00	6.95
DP30X30	30.00	30.00	2.00	6.95
DP3060	30.00	60.00	2.00	12.80
DP3066	30.00	66.00	2.00	13.00
DP3260	32.00	60.00	2.00	13.00
DP3263	32.63	63.00	2.00	14.48
302-2424	24.00	24.00	2.00	4.60
302-2448	24.00	48.00	2.00	3.00
302-2626	26.00	26.00	2.00	10.00
302-2748	27.00	48.00	2.00	6.70
302-2763	27.00	63.00	2.00	7.50
302-3030	30.00	30.00	2.00	8.00
302-3060	30.00	60.00	2.00	10.30
302-3162	31.00	62.00	2.00	10.00
302-3274	32.00	74.00	2.00	15.80
302-3636	36.00	36.00	2.00	8.50
40420603	6.00	68.00	1.00	12.00
40420604	7.00	90.00	6.00	4.00


AGG27X64

SECONDARY, PLASTIC

- Reinforced walls with gussets to resist buckling and add support
- Rubber mounts to reduce vibration
- Built in structural support
- Extreme temperature resistance

RECTORSEAL

Part No.	Width (In.)	Length (In.)	Ship Wgt (Lbs.)
AGG27X64	27.00	64.00	5.00
AGG30X50	30.00	50.00	5.00
AGG30X60	30.00	60.00	5.00


SAFT1

SAFE-T-SWITCH®

The Safe-T-Switch® Models SS1 and SS2 detect down stream clogs in condensate drains and interrupt the thermostat circuit to shut off the unit before flooding occurs. This product can also be installed to activate an alarm circuit. The Model SS1 installs inline at any downward slope from vertical to horizontal. It can also be installed on auxiliary pan outlets utilizing the plug included with the kit. Model SS2 installs primarily in drain pan outlets but can be used inline with the addition of a 3/4" tee. Float resets automatically and won't stick in the OFF position after the drain is cleared, saving callbacks. Model SS3 mounts to the auxiliary drain pan; minimum pan depth 1 3/8". Package includes snap on mounting bracket, mounting nuts, 1/4" hex head self-drilling sheet metal screw, pre-wired 6', 18 gauge lead wires, instructions and warning sticker.

- Safe-T-Switch® is UL Listed to comply with most applicable building codes
- Package includes 4', 18 gauge lead wires
- SS1 also includes 3/4" Schedule 40 PVC slip plug and bushing

RECTORSEAL

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
SAFT1	5.40	8.10	0.90	0.53
SAFT2	5.30	8.00	1.60	0.15
SS3	5.30	4.70	1.10	0.20

ACCESSORIES


NASA001AC

ACCESSORIES

- Crankcase heaters and compressor sound jackets are factory installed on some models; check model series specifications

Arcoaire Air Conditioning & Heating

Part No.	Description
NASA001AC	Anti Cycle Timer, 5 minute delay
NASA001TD	Time Delay Relay, Indoor Blower
NASA001CH	Crankcase Heater, Scroll, 208-230
NASA002CH	Crankcase Heater, Scroll, 460
NASA003CH	Crankcase Heater, Scroll, V Star, 208-230
NASA004CH	Crankcase Heater, Scroll, V Star, 460
NASA001SC	PTC Start Device
NASA003SC	Start Capacitor, Relay
NASA004SC	Start Capacitor, Relay
NASA005SC	Start Capacitor, Relay
NASA006SC	Start Capacitor, Relay
NASA008SC	Start Capacitor, Relay
NASA009SC	Start Capacitor, Relay

Continued on next page

Part No.	Description
NASA001LS	Liquid Line Solenoid, HP, R22+410A
NASA401LS	Liquid Line Solenoid, R410A
NASA001SJ	Sound Blanket Kit
NASA002SJ	Sound Blanket Kit
NASA003SJ	Sound Blanket Kit
NASA201LA	Low Ambient Kit, R22
NASA401LA	Low Ambient Kit, R410A
NASA202PS	High Pressure Switch, AC/HP, R22
NAEB40601TX	TXV Kit (for use with aluminum fan coils), Piston to R410A, 3 to 3 1/2 Tons (2010)
CALOWAMB041A00	ICP Low Ambient Kit 007-012


NAEA40501TX

TXV KIT

Arcoaire Air Conditioning & Heating

Part No.	Description
NAEA40501TX	TXV Kit, Piston to R410A, 1 1/2 to 2 1/2 Tons (2010)
NAEA40601TX	TXV Kit, Piston to R410A, 3 to 3 1/2 Tons (2010)
NAEA40701TX	TXV Kit, Piston to R410A, 4 to 5 Tons (2010)
NAEA20101TX	TXV Kit, Piston to R22, 1 1/2 to 3 1/2 Tons
NAEA20201TX	TXV Kit, Piston to R22, 4 Tons
NAEA20301TX	TXV Kit, Piston to R22, 5 Tons
NAEA20401TX	TXV Kit, R410A to R22, 1 1/2 Tons
NAEA20501TX	TXV Kit, R410A to R22, 3 1/2 to 4 Tons
NAEA20601TX	TXV Kit, R410A to R22, 2 to 3 Tons
NAEA20701TX	TXV Kit, R410A to R22, 5 Tons
NAEA40101TX	TXV Kit, R22 to R410A, 1 1/2 to 2 1/2 Tons
NAEA40201TX	TXV Kit, R22 to R410A, 3 Tons
NAEA40301TX	TXV Kit, R22 to R410A, 3 1/2 Tons
NAEA40401TX	TXV Kit, R22 to R410A, 4 to 5 Tons

UPFLOW/DOWNFLOW/HORIZONTAL


F80CSU0401712A

F80CSU ION 80 UP TO 80% AFUE, ULTRA-LOW NOX, VARIABLE-SPEED, COMMUNICATING, SINGLE STAGE GAS FURNACE

Ultra-low NOx gas furnace is an easy choice for California residents in the South Coast Air Quality Management District and San Joaquin Air Pollution Control District looking for a heating solution with reduced NOx emissions. This 80% AFUE furnace reliably heats your home while significantly reducing emissions that contribute to smog, acid rain, water quality deterioration and more. The variable-speed blower means better summer dehumidifcation when paired with an Ion(TM) System air conditioner or heat pump.

- Ultra-low NOx Model
- Quiet performance
- Variable-speed, constant airflow (VCA) ECM blower motor and single-stage gas valve also provide enhanced levels of temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Fully insulated cabinet helps keep the heat moving to your ductwork
- Air purifier and humidifier compatible
- High efficiency variable-speed, constant airflow (VCA) ECM blower motor
- Variable-speed induced draft combustion motor
- Single-stage gas valve
- Stainless steel primary heat exchanger
- Reliable direct gas ignition with silicon nitride ignitor
- High temperature limit control designed to prevent overheating
- Solid, pre-painted steel cabinet with tight fit door latch system

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F80CSU0401712A*[1]	3	40000	1200	115	1	33.75	29.00	17.50	119.00
F80CSU0601716A*[1]	4	60000	1600	115	1	33.75	29.00	17.50	124.00
F80CSU0802120A*[1]	5	80000	1200	115	1	33.75	29.00	21.00	144.00
F80CSU1002120A*[1]	5	100000	1200	115	1	33.75	29.00	21.00	154.00

[1] ULN FURNACES COMPLY WITH CALIFORNIA RULE 1111


F80CTL0451712B

ION 80 VARIABLE-SPEED GAS FURNACE

Keep the pesky cold out and the comfort in with our efficient gas furnace. It features a variable-speed blower motor and two-stage gas heat performance that together deliver temperature control and quiet performance. The variable-speed blower also means you'll enjoy better summer dehumidification from your cooling unit, and you might even get a SEER boost as well. Pair it with a compatible air conditioner for a full communicating system using the Ion™ Black System Control.

- High efficiency variable-speed, constant airflow (VCA) ECM blower motor
- Variable-speed induced draft combustion motor
- Energy-saving two-stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger
- High temperature limit control helps prevent overheating
- Solid pre-painted and steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: Ion™ Black System Control for full function and efficiency capability, Wi-Fi® remote access convenience and intelligent diagnostics±
- Heating capacity: 45,000–135,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F80CTL0451712B*	3	45000	1200	115	1	33.33	29.00	17.50	126.00
F80CTL0701412B*	3	70000	1200	115	1	33.33	29.00	14.20	119.50
F80CTL0701716B*	4	70000	1600	115	1	33.33	29.00	17.50	132.00
F80CTL0901716B*	4	90000	1600	115	1	33.33	29.00	17.50	126.00
F80CTL0902120B*	5	90000	2000	115	1	33.33	29.00	21.00	146.00
F80CTL1102120B*	5	110000	2000	115	1	33.33	29.00	21.00	152.00
F80CTL1352422B*	5.5	135000	2200	115	1	33.33	29.00	24.00	174.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


F96CTN0801714B

ION 96 VARIABLE-SPEED GAS FURNACE

Stay out of the cold and keep warm with our high-efficiency gas furnace. Its reliable two-stage gas valve and fully variable-speed blower provide enhanced temperature control for your comfort. The variable-speed blower also means you'll enjoy better summer dehumidification and a possible SEER boost as your furnace works with your cooling unit to help pull moisture out of the air. Pair it with a compatible air conditioner for a full communicating system using the Ion™ Black System Control.

- High efficiency variable-speed, constant airflow ECM blower motor
- Variable-speed induced draft combustion motor
- Energy-saving two stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Reliable direct gas ignition with silicon nitride ignitor
- High temperature limit control helps prevent overheating
- Solid, pre-painted steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: Ion™ Black System Control for full function and efficiency capability, Wi-Fi® remote access convenience and intelligent diagnostics
- Heating capacity: 40,000–120,000 BTUh

Arcoaire Air Conditioning & Heating

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F96CTN0801714B*	3.5	80000	1400	115	1	35.00	29.50	17.50	171.50
F96CTN0802120B*	4.5	80000	2000	115	1	35.00	29.50	21.00	171.50
F96CTN1002122B*	5	100000	2200	115	1	35.00	29.50	21.00	179.00
F96CTN1202422B*	5.5	120000	2200	115	1	35.00	29.50	24.50	188.00


F97CMN0601714B

ION 98 VARIABLE-SPEED MODULATING GAS FURNACE

Enjoy ultimate comfort even in the coldest weather with our highest efficiency gas furnace product. It features modulating gas heat performance that delivers incredible temperature control and quiet performance. The variable-speed blower also means you'll enjoy better summer dehumidification and a possible SEER boost as your furnace works with your cooling unit to help pull moisture out of the air. Pair it with a compatible air conditioner for full functionality and a full communicating system using the Ion™ Black System Control.

- High efficiency variable-speed, constant airflow ECM blower motor
- Variable-speed induced draft combustion motor
- Modulating gas valve with range of 40%–100% capacity
- RPJ® (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Reliable direct gas ignition with silicon nitride ignitor
- High temperature limit control prevents overheating
- Solid, pre-painted steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: Ion™ Black System Control for full function and efficiency capability, Wi-Fi® remote access convenience and intelligent diagnostics
- Heating capacity: 60,000–120,000 BTUh

Arcoaire Air Conditioning & Heating

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F97CMN0601714B*	3.5	60000	1045	115	1	35.00	29.50	17.50	154.00
F97CMN0801714B*	3.5	80000	1220	115	1	35.00	29.50	17.50	164.00
F97CMN0802120B*	5	80000	1285	115	1	35.00	29.50	21.00	169.00
F97CMN1002122B*	5.5	100000	1445	115	1	35.00	29.50	21.00	166.00
F97CMN1202422B*	5.5	120000	1735	115	1	35.00	29.50	24.50	184.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UPFLOW/DOWNFLOW/HORIZONTAL


N80MSL0451412A

PERFORMANCE 80 LOW NOX GAS FURNACE

This furnace is designed to provide exceptional comfort while efficiently reducing NOx emissions. By strictly adhering to California's rigorous air quality regulations, this furnace meets the requirements with a NOx emission limit of 40ng/J. Its advanced engineering ensures both your comfort, while taking into consideration the impact on the environment.

- Efficient multi 18-speed ECM blower motor
- Induced draft combustion motor
- Single-stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger
- Silicon nitride hot surface igniter
- High temperature limit control helps prevent overheating
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: heat/cool
- Heating capacity:45,000–155,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N80MSL0451412A*	3	45000	715	115	1	33.25	29.00	14.00	104.00
N80MSL0451714A*	3.5	45000	720	115	1	33.25	29.00	17.50	119.00
N80MSL0701412A*	3	70000	1075	115	1	33.25	29.00	14.00	114.00
N80MSL0701712A*	3	70000	1110	115	1	33.25	29.00	17.50	120.00
N80MSL0701716A*	4	70000	1310	115	1	33.25	29.00	17.50	127.00
N80MSL0702116A*	4	70000	1290	115	1	33.25	29.00	21.00	142.00
N80MSL0901714A*	3.5	90000	1230	115	1	33.25	29.00	17.50	131.00
N80MSL0902116A*	4	90000	1325	115	1	33.25	29.00	21.00	137.00
N80MSL0902120A*	5	90000	1645	115	1	33.25	29.00	21.00	121.00
N80MSL1102120A*	5	110000	1840	115	1	33.25	29.00	21.00	150.00
N80MSL1352420A*	5	135000	1805	115	1	33.25	29.00	24.00	167.00


N80MSN0451412A

PERFORMANCE 80 GAS FURNACE

As part of a complete, year-round comfort system, offers 18 blower motor speed options that your dealer can customize to deliver optimized airflow to your living spaces.

- Efficient multi 18-speed ECM blower motor
- Induced draft combustion motor
- Single-stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger
- Silicon nitride hot surface igniter
- High temperature limit control helps prevent overheating
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: heat/cool
- Heating capacity:45,000–155,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N80MSN0451412A*	3	45000	715	115	1	33.25	29.00	14.00	104.00
N80MSN0451714A*	3.5	45000	720	115	1	33.25	29.00	17.50	119.00
N80MSN0701412A*	3	70000	1075	115	1	33.25	29.00	14.00	114.00
N80MSN0701712A*	3	70000	1110	115	1	33.25	29.00	17.50	120.00
N80MSN0702116A*	4	70000	1310	115	1	33.25	29.00	21.00	142.00
N80MSN0901714A*	3.5	90000	1230	115	1	33.25	29.00	17.50	131.00
N80MSN0902116A*	4	90000	1290	115	1	33.25	29.00	21.00	137.00
N80MSN0902120A*	5	90000	1325	115	1	33.25	29.00	21.00	147.00
N80MSN0902420A*	5	90000	1515	115	1	33.25	29.00	24.50	150.00
N80MSN1102120A*	5	110000	1840	115	1	33.25	29.00	21.00	146.00
N80MSN1102420A*	5	111000	1970	115	1	33.25	29.00	24.50	146.00
N80MSN1352420A*	5	135000	1805	115	1	33.25	29.00	24.50	167.00
N80MSN1552420A*	5	155000	1945	115	1	33.25	29.00	24.50	168.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


N80MSU0401712A

N80MSU PERFORMANCE 80 UP TO 80% AFUE, ULTRA LOW NOX,MULTI 18-SPEED ECM, 4-WAY MULTIPOISE GAS FURNACE

- 80% AFUE
- Multi 18-Speed, Constant Torque (MCT) ECM blower motor
- Ultra-low NOx emissions - meets the nitrogen oxides (NOx) emission limit of 14 nanograms/joule for the South Coast Air Quality Management District and San Joaquin Valley Air Pollution Control District in California.
- Two-stage cooling capability
- Four-position furnace: Upflow, Horizontal Right, Horizontal Left, Downflow (6 different vent options)
- Versatile venting for tight-fit applications
- Category I venting
- Cabinet air leakage less than 2.0% at 1.0 in. w.c. and cabinet air leakage less than 1.4% at 0.5 in. w.c. when tested in accordance with ASHRAE Standard 193
- On-board NFC antenna makes setup a tap away when using the service technician app
- Stainless steel, tubular heat exchanger
- Pilot free, hot surface ignition
- High temperature limit control designed to prevent overheating
- Blocked vent switch
- Noise reduction combustion system, insulated blower compartment
- Variable speed inducer motor
- Approved for installations up to 5,400 feet
- 33 1/4" (843.9mm) high, for ease of installation
- Quarter turn knobs for easy door removal and secure attachment
- Factory shipped for natural gas, not convertible to propane
- Flexible installation: Upflow, Downflow, Horizontal
- Two position vent elbow capability
- Common venting with other Category I appliances
- Self diagnostics
- Slide out blower assembly

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N80MSU0401712A*	3	40000	1200	115	1	33.33	29.00	17.50	118.00
N80MSU0802120A*	5	80000	2000	115	1	33.33	29.00	21.00	121.00
N80MSU1002120A*	5	100000	2000	115	1	33.33	29.00	21.00	100.00


N80VSL0451412B

PERFORMANCE 80 GAS FURNACE

Relish in the warmth and energy savings of our efficient gas furnace when it's cold outside. It features variable 25-speed blower motor and single-stage gas heating that delivers even levels of temperature control and quiet performance. The multi-speed blower motor also means you'll enjoy better summer dehumidification and a possible SEER boost from your cooling unit.

- High-efficiency, variable 25-speed constant torque (VCT) ECM blower motor
- Induced draft combustion motor
- Single-stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger
- High temperature limit control helps prevent overheating
- Solid pre-painted and steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: heat/cool with humidity sensing
- Heating capacity: 44,000–110,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N80VSL0451412B*	3	45000	12000	115	1	33.33	29.00	14.20	112.00
N80VSL0701412B*	3	70000	1200	115	1	33.33	29.00	14.20	118.00
N80VSL0701716B*	4	70000	1600	115	1	33.33	29.00	17.50	126.00
N80VSL0901716B*	4	90000	1600	115	1	33.33	29.00	17.50	134.00
N80VSL0902120B*	5	90000	2000	115	1	33.33	29.00	21.00	149.00
N80VSL1102122B*	5	100000	2200	115	1	33.33	29.00	21.00	155.00
N80VSL1352422B*	5.5	135000	2200	115	1	33.33	29.00	24.50	170.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UPFLOW/DOWNFLOW/HORIZONTAL


N92MSN0401412A

N92MSN PERFORMANCE 92 UP TO 92.1% AFUE, SINGLE-STAGE, MULTI 18-SPEEDECM, CONDENSING GAS FURNACE

- Single-stage operation
- Constant speed torque ECM blower motor that offers 18 speed options for your dealer to select from for personalize home comfort.
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Air purifier and humidifier compatible
- High temperature limit control prevents overheating
- 10-Year Parts Limited Warranty upon timely registration
- 20-Year Heat Exchanger Limited Warranty
- Efficient 18-speed ECM blower motor
- Single-stage gas valve
- RPJ (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Reliable direct gas ignition with silicon nitride ignitor
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: heat/cool
- Heating capacity: 40,000–120,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N92MSN0401412A*	3	40000	1200	115	1	35.00	29.50	14.20	122.00
N92MSN0401712A*	3	40000	1200	115	1	35.00	29.50	17.50	123.00
N92MSN0601412A*	3	60000	1200	115	1	35.00	29.50	14.20	128.00
N92MSN0601714A*	3.5	60000	1400	115	1	35.00	29.50	17.50	136.00
N92MSN0801716A*	4	80000	1600	115	1	35.00	29.50	17.50	142.00
N92MSN0802120A*	5	80000	2000	115	1	35.00	29.50	21.00	153.00
N92MSN1002120A*	5	100000	2000	115	1	35.00	29.50	21.00	160.00
N92MSN1202420A*	5	120000	2000	115	1	35.00	29.50	24.50	183.00


N95ESU1002120A

N95ESU PERFORMANCE 95 UP TO 95% AFUE, SINGLE STAGE, ULTRA LOW NOX, ECM GASFURNACE

Ultra-low NOx gas furnace is an easy choice for California residents in the South Coast Air Quality Management District and San Joaquin Air Pollution Control District looking for a heating solution with reduced NOx emissions. With up to 95% AFUE, this furnace efficiently heats your home while significantly reducing emissions that contribute to smog, acid rain, water quality deterioration and more. Its reliable single-stage operation and 5 speed blower provide even levels of temperature control for your comfort.

- Ultra-low NOx Model
- Quiet performance
- Multi-speed blower motor and single-stage gas valve provide improved levels of even temperature control and comfort
- Fully insulated cabinet helps keep the heat moving to your ductwork
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Air purifier and humidifier compatible
- Efficient multi-speed ECM blower motor
- Variable speed induced draft combustion motor
- Single-stage gas valve
- Stainless steel primary heat exchanger
- Reliable direct gas ignition with Silicon Nitride Ignitor
- High temperature limit control designed to prevent overheating
- Solid, pre-painted steel cabinet with tight fit door latch system
- Sound-reducing features: fully insulated cabinet with soft mounted blower and inducer motor
- Upflow and Horizontal Installation Only
- Natural Gas only, not convertible to Liquid Propane
- Compatible thermostat: heat/cool with humidity sensing
- Heating capacity: 60,000 - 80,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N95ESU1002120A*	5	100000	2000	115	1	35.00	29.50	21.00	164.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


N96MSN0401410A

N96MSN PERFORMANCE 96 UP TO 97% AFUE, SINGLE-STAGE, MULTI 18-SPEED ECM,CONDENSING GAS FURNACE

- Efficient multi 18-speed ECM blower motor
- Induced draft combustion motor Single-stage gas valve
- RPJ (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Reliable direct spark gas ignition
- Sound-reducing features: soft mounted blower and inducer motor
- Compatible thermostat: heat/cool
- Heating capacity: 26,000–140,000 BTUh
- Single-stage operation
- Constant speed torque ECM blower motor that offers 18 speed options for your dealer to select from for personalize home comfort.
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Air purifier and humidifier compatible
- High temperature limit control prevents overheating
- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N96MSN0401410A*	2.5	40000	1000	115	1	35.00	29.50	14.20	120.00
N96MSN0401712A*	3	40000	1200	115	1	35.00	29.50	17.50	126.50
N96MSN0601412A*	3	40000	1200	115	1	35.00	29.50	14.20	136.50
N96MSN0601716A*	4	60000	1600	115	1	35.00	29.50	17.50	136.50
N96MSN0801716A*	4	80000	1600	115	1	35.00	29.50	17.50	146.50
N96MSN0802120A*	5	80000	2000	115	1	35.00	29.50	21.00	154.50
N96MSN1002120A*	5	100000	2000	115	1	35.00	29.50	21.00	164.50
N96MSN1002122A*	5.5	100000	2200	115	1	35.00	29.50	21.00	165.00
N96MSN1202422A*	5.5	120000	2200	115	1	35.00	29.50	24.50	179.50
N96MSN1402422A*	5.5	140000	2200	115	1	35.00	29.50	24.50	189.00


N96VSN0601716B

PERFORMANCE 96 GAS FURNACE

Keep cozy when it's cold outside with our high-efficiency gas furnace. Its reliable single-stage operation provides even levels of temperature control for your comfort. The variable 25-speed blower means you'll enjoy better summer dehumidification as your furnace works with your cooling unit to help pull moisture out of the air.

- Variable 25-speed, constant torque ECM blower motor
- Single-stage gas valve
- RPJ® (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Reliable direct gas ignition with silicon nitride ignitor
- Solid, pre-painted steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Heating capacity: 40,000–120,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
N96VSN0601716B*	3.5	60000	1400	115	1	35.00	29.50	17.50	139.00
N96VSN0801716B*	4	80000	1600	115	1	35.00	29.50	17.50	151.00
N96VSN0802120B*	5	80000	2000	115	1	35.00	29.50	21.00	156.00
N96VSN1002120B*	5	100000	2000	115	1	35.00	29.50	21.00	170.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UPFLOW/DOWNFLOW/HORIZONTAL



F80VTL0451412B

QUIETCOMFORT 80 GAS FURNACE

An energy-saving two-stage gas valve and variable 25-speed blower motor give you enhanced control with this gas furnace. Pair with a compatible heat pump and thermostat for energy-saving dual fuel heating.

- Variable 25-speed, constant torque ECM blower motor
- Two-stage heat for energy savings
- RPJ® (Rigid Press Joint) primary heat exchanger
- Solid, pre-painted steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Heating capacity: 44,000–110,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F80VTL0451412B*	3	45000	1200	115	1	33.33	29.00	17.20	111.00
F80VTL0701716B*	4	70000	1600	115	1	33.33	29.00	17.50	132.00
F80VTL0902120B*	5	90000	2000	115	1	33.33	29.00	21.00	142.00
F80VTL1102122B*	5	110000	2200	115	1	33.33	29.00	21.00	154.00



F96VTN0401712B

QUIETCOMFORT 96 GAS FURNACE

Keep cozy when it's cold outside with our high-efficiency gas furnace. Its reliable two-stage operation and variable 25-speed blower provide enhanced temperature control for your comfort. The variable-speed blower also means you'll enjoy better summer dehumidification as your furnace works with your cooling unit to help pull moisture out of the air.

- Variable 25-speed, constant torque ECM blower motor
- Two-stage heat for energy savings
- RPJ® (Rigid Press Joint) primary heat exchanger, stainless steel secondary heat exchanger
- Solid, pre-painted steel insulated cabinet with tight fit door latch system
- Sound-reducing features: soft mounted blower and inducer motor
- Heating capacity: 60,000–120,000 BTUh

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
F96VTN0401712B*	3.0	40000	1200	115	1	35.00	29.50	17.50	133.00
F96VTN0601412B*	3.0	60000	1200	115	1	35.00	29.50	14.20	132.00
F96VTN0601716B*	4.0	60000	1600	115	1	35.00	29.50	17.50	139.00
F96VTN0801716B*	4.0	80000	1600	115	1	35.00	29.50	17.50	147.00
F96VTN0802120B*	5	80000	1200	115	1	35.00	29.50	21.00	156.00
F96VTN1002120B*	5	100000	1200	115	1	35.00	29.50	21.00	170.00
F96VTN1002122B*	5.5	100000	2200	115	1	35.00	29.50	21.00	171.00
F96VTN1202422B*	5.5	120000	2200	115	1	35.00	29.50	24.50	190.00
F96VTN0401410B*	2.5	40000	1000	115	1	35.00	29.50	14.20	126.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


TZ80DSC075B30SB

TZ80DSC 80% A.F.U.E. 1 STAGE DOWNFLOW GAS FURNACES

- 80% residential Gas Furnace CSA certified
- 7 Segment LED all units
- Direct spark ignition for reliability and longevity
- Heat exchanger is removable for improved serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Low profile 34" cabinet ideal for space constrained installations
- Integrated Control board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet
- Constant Torque electrically commutated motor

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
TZ80DSC075B30SB*	3	75000	1200	115	1	34.00	28.06	17.50	105.00
TZ80DSC075C50SA*	5	75000	1200	115	1	34.00	28.06	21.00	105.00
TZ80DSC075C50XA*	5	75000	1200	115	1	34.00	28.06	21.00	105.00
TZ80DSC100C50SA*	5	100000	2000	115	1	34.00	28.06	21.00	120.00
TZ80DSC125D50SA*	5	125000	2000	115	1	34.00	28.06	24.50	143.00
TZ80DSC125D50XA*	5	125000	2000	115	1	34.00	28.06	24.50	143.00


TZ80MSC050A30XA

TZ80MSC 80% UPFLOW/HORIZONTAL 1 STAGE, GAS FURNACE

- 80% residential Gas Furnace CSA certified
- 3 way multi poise design UF / HZ
- Diagnostics — 7 Segment LED all units
- Ignition System – DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Solid doors provide quiet operation
- Low profile 34" cabinet ideal for space constrained installations
- Blower shelf design – serviceable in all furnace orientations
- Hemmed edges on cabinets and doors
- 1/4 turn door knobs for tool less access
- Integrated Control board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet
- Constant Torque electrically commutated motor
- Cabinet air leakage less than 2% at 1 inch H2O when tested in accordance with ASHRAE standard 193 A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Depart

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
TZ80MSC050A30XA*[1]	3	50000	1302	115	1	34.00	28.06	14.00	110.00
TZ80MSC075B40SA*	4	75000	1400	115	1	34.00	28.06	17.50	125.00
TZ80MSC075B40XA*[1]	4	75000	1400	115	1	34.00	28.06	17.50	125.00
TZ80MSC100C50SA*	5	100000	1840	115	1	34.00	28.06	21.00	140.00
TZ80MSC125D50SA*	5	125000	1934	115	1	34.00	28.06	24.50	150.00

[1] Low Nox

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UPFLOW/DOWNFLOW/HORIZONTAL


TZ80MSX050B30UA

TZ80MSX 80% UPFLOW/HORIZONTAL 1 STAGE ULTRA LOW NOX GAS FURNACE

- 80% residential Gas Furnace CSA certified
- 3 way multi poise design UF / HZ
- Diagnostics — 7 Segment LED all units
- Ignition System – DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Solid doors provide quiet operation
- Low profile 34" cabinet ideal for space constrained installations
- Blower shelf design – serviceable in all furnace orientations
- Hemmed edges on cabinets and doors
- 1/4 turn door knobs for tool less access
- Integrated Control board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet
- Constant Torque electrically commutated motor

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
TZ80MSX050B30UA*	3	40000	1139	115	1	34.00	28.03	17.50	124.00
TZ80MSX070B30UA*	3	56000	1135	115	1	34.00	28.03	17.50	126.00
TZ80MSX070B40UA*	4	56000	1602	115	1	34.00	28.03	17.50	124.00
TZ80MSX100C50UA*	5	80000	1714	115	1	34.00	28.03	21.00	142.50



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OIL FURNACE


OLR098A12A

PERFORMANCE 86 LOW BOY OIL FURNACE

- Quiet performance
- Fixed blower motor provides even, consistent comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Accepts high-performance Beckett or Riello burners
- Sturdy, insulated steel cabinet helps manage sound levels
- Air purifier and humidifier compatible for better home air quality
- Designed for corrosion resistance and lasting performance
- Standard-efficiency fixed-speed ECM blower motor
- Dual fuel capable
- Stainless steel heat exchanger with lifetime limited warranty
- Front flue (breech)
- High-quality gloss baked finish
- Sound-reducing features: fully insulated cabinet and flue silencer baffles
- Sizes available in 33.75" or less
- Compatible control: heating/cooling thermostat

Heating capacity: 70,000-154,000 BTUH

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
OLR098A12A*	3	82000	1200	115	1	33.75	47.00	33.75	175.00
OLR112A16A*	4	94100	1600	115	1	33.75	48.00	33.75	195.00


OLV098A12A

QUIETCOMFORT 87 LOW BOY OIL FURNACE

- The ultimate in quiet performance
- Variable-speed blower provides even, consistent temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Accepts high-performance Beckett or Riello burners
- Variable-speed blower motor provides enhanced dehumidification as part of your cooling system for increased home comfort
- Sturdy, insulated steel cabinet helps manage sound levels
- Air purifier and humidifier compatible for better home air quality
- Designed for corrosion resistance and lasting performance
- Low boy design for low clearance installation spaces
- Highest-efficiency variable-speed ECM blower motor
- Dual fuel capable
- Stainless steel heat exchanger with lifetime limited warranty
- Front flue (breech)
- High-quality gloss baked finish
- Sound-reducing features: fully insulated cabinet and flue silencer baffles
- Sizes available in 39.25" or less
- Compatible control: heating/cooling thermostat
- Heating capacity: 70,000-154,000 BTUH

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
OLV098A12A*	3	82000	1200	115	1	33.75	47.00	21.00	175.00
OLV112A16A*	4	94100	1600	115	1	33.75	48.00	21.00	195.00
OLV154F20A*	5	129700	2000	115	1	39.25	52.00	24.88	270.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL FURNACE


OMF112K14A

PERFORMANCE 86 OIL FURNACE

- Stainless Steel construction - Heavy gauge heat exchanger quickly transfers heat to the ambient air
- Multi-position - True four-way multipoise unit that opens-up installation possibilities
- Sound attenuator - High density acoustic wool dampens combustion sound
- MotorVariable speed ECM motor that provides true constant CFM capabilities
- Burners - Choice of high static pressure oil burners Becket NX, Riello 40-F3/40-BF3/40-BF5 (BURNERS MUST BE ORDERED SEPARATELY)
- Inspection port - External for easy access and sealed - Adjust combustion parameters and simplify inspections
- Accessories included - Barometric draft regulator, external filter rack and air filter
- High quality finish - High gloss baked
- Approved - For chimney vent and sealed combustion installations
- Efficiency AFUEs above 85.0 are Energy Star Qualified

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
OMF112K14A*	3.5	94200	1400	115	1	41.50	25.75	21.75	153.00
OMF154L20A*	5	129000	2000	115	1	47.88	25.00	28.50	200.00


OMV098J12B

QUIETCOMFORT 86 OIL FURNACE

- Stainless Steel construction - Heavy gauge heat exchanger quickly transfers heat to the ambient air
- Multi-position - True four-way multipoise unit that opens-up installation possibilities
- Sound attenuator - High density acoustic wool dampens combustion sound
- Motor - Variable speed ECM motor that provides true constant CFM capabilities
- Burners - Choice of high static pressure oil burners Becket NX, Riello 40-F3/40-BF3/40-BF5 (BURNERS MUST BE ORDERED SEPARATELY)
- Inspection port - External for easy access and sealed - Adjust combustion parameters and simplify inspections
- Accessories included - Barometric draft regulator, external filter rack and air filter
- High quality finish - High gloss baked
- Approved - For chimney vent and sealed combustion installations
- Efficiency AFUEs above 85.0 are Energy Star Qualified

						Dimensions (In.)			
Part No.	Nominal Tons	Heating Capacity (BTUH)	CFM	Voltage	Phase	H	D	W	Ship Wgt (Lbs.)
OMV098J12B*	2.5	80800	1200	115	1	40.75	21.75	16.88	134.00
OMV112K14A*	3.5	94200	1400	115	1	41.50	25.75	21.75	168.00
OMV154L20A*	5	129000	2000	115	1	47.88	25.00	28.50	75.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

A/C UNIT, ELECTRIC COOL/GAS HEAT



PGB424040K001B

PERFORMANCE 14 PACKAGED GAS FURNACE/AIR CONDITIONER COMBINATION - 1 PHASE

Enjoy enhanced comfort with our efficient packaged gas furnace and electric air conditioner product that delivers reliable temperatures every season and reduced humidity during the hot months.

FEATURES & BENEFITS

- Quiet performance (as low as 70 decibels)
- Multi-speed blower motor for improved temperature and humidity control
- Built to withstand bad weather and debris
- Designed for lasting performance
- Ultra-Low NOx models available for California
- R-454B refrigerant continues our legacy of dedication to environmental stewardship. This refrigerant achieves a remarkable 75% reduction in global warming potential while preserving the non-ozone depleting properties of our previous refrigerant.

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- Single-stage gas valve
- Corrosion-resistant Stainless Steel heat exchanger[1]
- Reliable, direct spark gas ignition
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel, soft mounted compressor and blower motor
- Compatible thermostat: heat/cool with humidity sensing
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons
- Heating capacity: 40,000–130,000 BTUh

Arcoaire Air Conditioning & Heating

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PGB424040K001B*[1]	2	24000	40000	13.4	11.05	750	208/230	1	43.75	32.63	44.19	328.00
PGB424060K000B*	2	24000	40000	13.4	11.05	750	208/230	1	43.75	48.20	32.60	328.00
PGB424060K001B*[1]	2	24000	60000	13.4	11.05	750	208/230	1	45.75	32.63	44.19	328.00
PGB424060K002B*[2]	2	24000	60000	13.4	11.05	750	208/230	1	43.75	48.20	32.60	328.00
PGB430040K001B*[1]	2.5	30000	40000	13.4	11.05	950	208/230	1	43.75	48.20	32.60	337.00
PGB430060K000B*	2.5	30000	60000	13.4	11.05	950	208/230	1	43.75	48.20	32.60	337.00
PGB430060K001B*[1]	2.5	30000	60000	13.4	11.05	950	208/230	1	45.75	32.63	44.19	337.00
PGB430060K002B*[2]	2.5	30000	60000	13.4	11.05	950	208/230	1	43.75	48.20	32.60	337.00
PGB436060K000B*	3	36000	60000	13.4	11.05	1150	208/230	1	44.75	48.20	44.20	380.00
PGB436060K001B*[1]	3	36000	60000	13.4	11.05	1150	208/230	1	43.00	47.00	42.94	396.00
PGB436060K002B*[2]	3	36000	60000	13.4	11.05	1150	208/230	1	44.75	48.20	44.20	380.00
PGB436090K000B*	3	36000	90000	13.4	11.05	1150	208/230	1	44.75	48.20	44.20	380.00
PGB436090K001B*[1]	3	36000	90000	13.4	11.05	1150	208/230	1	44.75	44.13	44.19	380.00
PGB442090K000B*	3.5	42000	90000	13.4	11.05	1350	208/230	1	44.75	48.20	44.20	414.00
PGB442090K001B*[1]	3.5	42000	90000	13.4	11.05	1350	208/230	1	44.75	44.13	44.19	414.00
PGB442090K002B*[2]	3.5	42000	90000	13.4	11.05	1350	208/230	1	43.00	47.00	42.94	424.00
PGB448090K000B*	4	48000	90000	13.4	11.05	1600	208/230	1	51.00	47.00	42.94	477.00
PGB448090K001B*[1]	4	48000	90000	13.4	11.05	1600	208/230	1	51.00	47.00	42.94	477.00
PGB448090K002B*[2]	4	48000	90000	13.4	11.05	1600	208/230	1	51.00	47.00	42.94	477.00
PGB448115K000B*	4	48000	115000	13.4	11.05	1600	208/230	1	51.00	47.00	42.94	477.00
PGB448115K001B*[1]	4	48000	115000	13.4	11.05	1600	208/230	1	51.00	47.00	42.94	477.00
PGB460090K000B*	5	60000	90000	13.4	11.05	1750	208/230	1	47.00	47.00	42.94	482.00
PGB460090K001B*[1]	5	60000	90000	13.4	11.05	1750	208/230	1	47.00	47.00	42.94	482.00
PGB460090k002B*[2]	5	60000	90000	13.4	11.05	1750	208/230	1	47.00	47.00	42.94	482.00
PGB460115K000B*	5	60000	115000	13.4	11.05	1750	208/230	1	47.00	47.00	42.94	482.00
PGB460115K001B*[1]	5	60000	115000	13.4	11.05	1750	208/230	1	47.00	47.00	42.94	482.00
PGB460130K000B*	5	60000	130000	13.4	11.05	1750	208/230	1	48.75	48.20	44.20	481.00

[1] Low Nox [2] Ultra Low Nox

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

A/C UNIT, ELECTRIC COOL/GAS HEAT



RGF036KE2A0AAA

RGF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B GAS HEATING/ELECTRIC COOLING - 1 PHASE - MEDIUM HEAT

The new 3 to 6 ton RGF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RGF036KE2A0AAA	3	34000	13.4	11.5	1050	208-230	1	33.38	74.38	46.63	482.00
RGF048KE2A0AAA	4	48000	13.4	11.5	1500	208-230	1	33.38	74.38	46.63	543.00
RGF060KE2A0AAA	5	57500	13.4	11.4	1500	208-230	1	33.38	74.38	46.63	556.00

A/C UNIT, ELECTRIC COOL


PAB424000K000B

PERFORMANCE 14 PACKAGED AIR CONDITIONER UNIT - 1 PHASE

Muggy, hot weather is no problem with our efficient packaged air conditioner. The multi-speed blower motor quietly delivers better home cooling comfort and helps keep humidity in check.

FEATURES & BENEFITS

- Quiet performance (as low as 70 decibels)
- Multi-speed blower motor for improved temperature and humidity control
- Built to withstand bad weather and debris
- Designed for lasting performance
- R-454B refrigerant continues our legacy of dedication to environmental stewardship. This refrigerant achieves a remarkable 75% reduction in global warming potential while preserving the non-ozone depleting properties of our previous refrigerant.

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel sound, soft mount compressor and blower motor
- Compatible with humidity sensing thermostats
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PAB424000K000B*	2	24000	13.4	11.05	750	208/230	1	43.75	48.20	32.60	307.00
PAB430000K000B*	2.4	30000	13.4	11.05	950	208/230	1	43.75	48.20	32.60	316.00
PAB436000K000B*	3	36000	13.4	11.05	1150	208/230	1	44.75	48.20	32.60	354.00
PAB442000K000B*	3.5	42000	13.4	11.05	1350	208/230	1	44.75	48.20	44.20	388.00
PAB448000K000B*	4	48000	13.4	11.05	1600	208/230	1	54.75	48.20	44.20	437.00
PAB460000K000B*	5	60000	13.4	11.05	1750	208/230	1	48.75	48.20	44.20	451.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



PAM424000K000B

PERFORMANCE PACKAGED NARROW LOT AIR CONDITIONER

You get the efficiency you want with our affordable packaged air conditioner made for ground level installation on narrow lots. It features an efficient blower motor and a hail guard grill for added protection

FEATURES & BENEFITS

- Quiet performance (as low as 71 decibels)
- Blower motor and compressor work together for cooling dehumidification
- Durably built to withstand bad weather and debris
- Designed for lasting performance
- Sized smaller for narrow lot installations
- Uses lower global warming potential R-454B refrigerant
- Includes A2L leak dissipation system

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient fixed-speed blower motor
- System protecting high and low-pressure switches
- Corrosion-resistant aluminum coil design
- Louvered hail guard and raised coil design for protection against weather and debris
- Sound reducing features: soft mounted compressor and blower motor
- Compatible with cooling thermostats
- Ground level narrow lot installation
- Cooling capacity: 2–5 tons

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PAM424000K000B*	2	24000	13.4	11.05	800	208/230	1	30.13	32.00	51.00	286.00
PAM430000K000B*	2.5	30000	13.4	11.05	1000	208/230	1	30.13	32.00	51.00	298.00
PAM436000K000B*	3	36000	13.4	11.05	1200	208/230	1	30.13	32.00	51.00	329.00
PAM442000K000B*	3.5	42000	13.4	11.05	1400	208/230	1	34.13	32.00	51.00	352.00
PAM448000K000B*	4	48000	13.4	11.05	1600	208/230	1	42.13	32.00	51.00	368.00
PAM460000K000B*	5	60000	13.4	11.05	1850	208/230	1	42.13	32.00	51.00	402.00



RAF036K02A0AAA

RAF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B ELECTRIC COOLING/OPTIONAL ELECTRIC HEAT - 1 PHASE

The new 3 to 6 ton RAF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future.

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RAF036K02A0AAA	3	34000	13.4	11.5	1050	208-230	1	33.38	74.38	46.63	482.00
RAF048K02A0AAA	4	48000	13.4	11.5	1500	208-230	1	33.38	74.38	46.63	543.00
RAF060K02A0AAA	5	57500	13.4	11.4	1500	208-230	1	33.38	74.38	46.63	556.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT PUMP UNIT



PHB424000K000B

QUIETCOMFORT 14 PACKAGED HEAT PUMP - 1 PHASE

You can enjoy comfort every season with our efficient packaged electric heating and cooling heat pump. It features a single-stage compressor and multi-speed blower for even temperature control and reduced humidity in the warm seasons to quietly deliver better comfort.

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- Advanced electronic control switches quietly between heating, cooling and defrost modes
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel, soft mounted compressor and blower motor, and Quiet Shift defrost
- Compatible thermostat: heat/cool and humidity sensing
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling/heating capacity: 2–5 tons

								Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PHB424000K000B*	2	24000	13.4	11.05	750	208/230	1	51.75	48.20	32.60	343.00
PHB430000K000B*	2.5	30000	13.4	11.05	950	208/230	1	51.75	48.20	32.60	376.00
PHB436000K000B*	3	36000	13.4	11.05	1150	208/230	1	54.75	48.20	32.60	420.00
PHB442000K000B*	3.5	42000	13.4	11.05	1350	208/230	1	54.75	48.20	44.20	440.00
PHB448000K000B*	4	48000	13.4	11.05	1600	208/230	1	44.75	48.20	44.20	440.00
PHB460000K000B*	5	60000	13.4	11.05	1750	208/230	1	48.75	48.20	44.20	510.00



PHM424000K000B

PERFORMANCE 14 PACKAGED NARROW LOT HEAT PUMP

You get the efficiency you want with our affordable packaged heating and cooling heat pump made for ground level installation on narrow lots. It features an efficient blower motor and a hail guard grill for added protection.

- Efficient single-stage scroll compressor
- Efficient fixed-speed blower motor
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- System protecting high- and low-pressure switches
- Corrosion-resistant aluminum coil design
- Louvered hail guard and raised coil design for protection against weather and debris
- Compatible thermostat: heat/cool
- Sound reducing features: soft mounted compressor and blower motor
- Ground level narrow lot installation
- Uses low global warming potential R-454B refrigerant
- Cooling/heating capacity: 2–5 tons

									Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PHM424000K000B*	2	24000	23000	13.4	11.05	800	208/230	1	30.13	32.00	51.00	312.00
PHM430000K000B*	2.5	30000	28400	13.4	11.05	1000	208/230	1	34.13	32.00	51.00	333.00
PHM436000K000B*	3	36000	32600	13.4	11.05	1200	208/230	1	34.18	32.00	51.00	334.00
PHM442000K000B*	3.5	42000	39000	13.4	11.05	1400	208/230	1	42.13	32.00	51.00	388.00
PHM448000K000B*	4	48000	45000	13.4	11.05	1600	208/230	1	42.13	32.00	51.00	407.00
PHM460000K000B*	5	60000	56500	13.4	11.05	1700	208/230	1	42.13	32.00	51.00	475.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



RHF036K02A0AAA

RHF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B HEAT PUMP - 1 PHASE

The new 3 to 6 ton RHF036-072 Series packaged heat pump rooftop units (RTU) with X-Vane Fan Technology provides value added benefits never seen in this type of equipment before

- Single point electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to- access tool-less filter door, filter track tilts out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

									Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	IEER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RHF036K02A0AAA	3	36000	13.4	11.5	-	1275	208-230	3	33.38	74.38	46.63	552.00
RHF048K02A0AAA	4	48000	13.4	11.5	-	1600	208-230	3	33.38	74.38	46.63	561.00
RHF060K02A0AAA	5	60000	13.4	11.5	-	2000	208-230	1	41.38	74.38	46.63	584.00



PDB424060K000B

PERFORMANCE 14 GAS FURNACE/HEAT PUMP COMBINATION - 1 PHASE

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- Single-stage gas valve
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- Dense wire grille and raised coil design for protection against weather and debris
- Stainless Steel heat exchanger
- Corrosion-resistant aluminum coil design
- Reliable, direct spark ignition
- System protecting high- and low-pressure switches
- Sound reducing features: vibration-reducing top panel, soft mounted compressor and blower motor, and Quiet Shift defrost
- Compatible thermostat: dual fuel with humidity sensing
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant

Arcoaire Air Conditioning & Heating

								Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PDB424060K000B	2	24000	13.4	11	750	208-230	1	51.75	48.20	32.60	371.00
PDB430060K000B	2.5	30000	13.4	11	950	208-230	1	51.75	48.20	32.60	406.00
PDB436090K000B	3	36000	13.4	11	1150	208-230	1	54.75	48.20	44.13	461.00
PDB448115K000B	4	48000	13.4	11	1600	208-230	1	44.75	48.20	44.13	491.00
PDB460115K000B	5	60000	13.4	11	1750	208-230	1	48.75	48.20	44.13	554.00

A/C UNIT, ELECTRIC COOL/GAS HEAT



PGB436060H000B

PERFORMANCE 14 PACKAGED GAS FURNACE/AIR CONDITIONER COMBINATION - 3 PHASE

Enjoy enhanced comfort with our efficient packaged gas furnace and electric air conditioner product that delivers reliable temperatures every season and reduced humidity during the hot months.

FEATURES & BENEFITS

- Quiet performance (as low as 70 decibels)
- Multi-speed blower motor for improved temperature and humidity control
- Built to withstand bad weather and debris
- Designed for lasting performance
- Ultra-Low NOx models available for California
- R-454B refrigerant continues our legacy of dedication to environmental stewardship. This refrigerant achieves a remarkable 75% reduction in global warming potential while preserving the non-ozone depleting properties of our previous refrigerant.

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- Single-stage gas valve
- Corrosion-resistant Stainless Steel heat exchanger[1]
- Reliable, direct spark gas ignition
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel, soft mounted compressor and blower motor
- Compatible thermostat: heat/cool with humidity sensing
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons
- Heating capacity: 40,000–130,000 BTUh

Arcoaire Air Conditioning & Heating

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PGB436060H000B*	3	36000	60000	13.4	11.05	1150	208/230	3	44.75	48.20	44.20	380.00
PGB436060H001B*[1]	3	36000	60000	13.4	11.05	1150	208/230	3	44.75	48.20	44.20	380.00
PGB436060H002B*[2]	3	36000	60000	13.4	11.05	1150	208/230	3	44.75	48.20	44.20	380.00
PGB436090H000B*	3	36000	90000	13.4	11.05	1150	208/230	3	44.75	48.20	44.20	380.00
PGB436090H001B*[1]	3	36000	90000	13.4	11.05	1150	208/230	3	44.75	48.20	44.20	380.00
PGB442090H000B*	3.5	42000	90000	13.4	11.05	1350	208/230	3	44.75	48.20	44.20	414.00
PGB442090H001B*[1]	3.5	42000	90000	13.4	11.05	1350	208/230	3	44.75	48.20	44.20	414.00
PGB442090H002B*[2]	3.5	42000	90000	13.4	11.05	1350	208/230	3	44.75	48.20	44.20	414.00
PGB448090H000B*	4	48000	90000	13.4	11.05	1600	208/230	3	51.00	47.00	42.94	477.00
PGB448090H001B*[1]	4	48000	90000	13.4	11.05	1600	208/230	3	51.00	47.00	42.94	477.00
PGB448090H002B*[2]	4	48000	90000	13.4	11.05	1600	208/230	3	51.00	47.00	42.94	477.00
PGB448115H000B*	4	48000	115000	13.4	11.05	1600	208/230	3	51.00	47.00	42.94	477.00
PGB448115H001B*[1]	4	48000	115000	13.4	11.05	1600	208/230	3	51.00	47.00	42.94	477.00
PGB460090H000B*	5	60000	90000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB460090H001B*[1]	5	60000	90000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB460090H002B*[2]	5	60000	90000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB460115H000B*	5	60000	115000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB460115H001B*[1]	5	60000	115000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB460130H000B*	5	60000	136000	13.4	11.05	1750	208/230	3	47.00	47.00	42.94	482.00
PGB436060L001B*[1]	3	36000	60000	13.4	11.05	1150	460	3	43.00	47.00	42.94	396.00
PGB436090L000B*	3	36000	90000	13.4	11.05	1150	460	3	43.00	47.00	42.94	396.00
PGB436090L001B*[1]	3	36000	90000	13.4	11.05	1150	460	3	43.00	47.00	42.94	396.00
PGB442090L001B*[1]	3.5	42000	90000	13.4	11.05	1350	460	3	43.00	47.00	42.94	424.00
PGB448090L001B*[1]	4	48000	90000	13.4	11.05	1600	460	3	51.00	47.00	42.94	477.00
PGB448115L001B*[1]	4	48000	115000	13.4	13.4	1600	460	3	51.00	47.00	42.94	477.00
PGB460090L000B*	5	60000	90000	13.4	13.4	1750	460	3	51.00	47.00	42.94	481.00
PGB460090L001B*[1]	5	60000	90000	13.4	11.05	1750	460	3	47.00	47.00	42.94	482.00
PGB460115L001B*[1]	5	60000	115000	13.4	11.05	1750	460	3	47.00	47.00	42.94	482.00

[1] Low Nox [2] Ultra Low Nox

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



RGF036HD2A0AAA

RGF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B GAS HEATING/ELECTRIC COOLING - 3 PHASE - LOW HEAT

The new 3 to 6 ton RGF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	IEER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RGF036HD2A0AAA	3	34000	13.4	11.5	-	1050	208-230	3	33.38	74.38	46.63	482.00
RGF048HD2A0AAA	4	48000	13.4	11.5	-	1500	208-230	3	33.38	74.38	46.63	543.00
RGF060HD2A0AAA	5	57500	13.4	11.4	-	1500	208-230	3	33.38	74.38	46.63	556.00
RGF072HD2A0AAA	6	70000	-	-	15	2400	208-230	3	41.38	74.38	46.63	607.00
RGF090HD2A0AAA	7.5	86000	-	-	15	2650	208-230	3	41.25	88.50	59.50	787.00
RGF102HD2A0AAA	8.5	98000	-	-	15	3400	208-230	3	49.38	88.50	59.50	868.00
RGF120HD2A0AAA	10	118000	-	-	15	3500	208-230	3	49.38	88.50	59.50	878.00
RGF150HD2A0AAA	12.5	136000	-	-	15	3750	208-230	3	49.38	88.50	59.50	1041.00
RGF180HD2A0AAA	15	174000	-	-	14.5	5250	208-230	3	57.38	115.88	63.38	1408.00
RGF210HD2A0AAA	17.5	206000	-	-	14.5	6125	208-230	3	49.38	127.88	86.38	1800.00
RGF210HDJA0AAA[1]	17.5	206000	-	-	14.5	6125	208-230	3	49.38	127.88	86.38	1800.00
RGF240HD2A0AAA	20	248000	-	-	14.5	7000	208-230	3	49.38	141.50	86.38	2000.00
RGF240HDJA0AAA[1]	20	248000	-	-	14.5	7000	208-230	3	49.38	141.50	86.38	2000.00
RGF300HD2A0AAA	25	278000	-	-	14	8750	208-230	3	57.38	141.50	86.38	2174.00
RGF336HD2A0AAA	27.5	314000	-	-	14	10000	208-230	3	57.38	141.50	86.38	2351.00
RGF336HDJA0AAA[1]	27.5	314000	-	-	14	10000	208-230	3	57.38	157.75	86.38	2351.00
RGF036LD2A0AAA	3	34000	13.4	11.5	-	1050	460	3	33.38	74.38	46.63	482.00
RGF048LD2A0AAA	4	48000	13.4	11.5	-	1500	460	3	33.38	74.38	46.63	543.00
RGF060LD2A0AAA	5	57500	13.4	11.4	-	1500	460	3	33.38	74.38	46.63	556.00
RGF072LD2A0AAA	6	70000	-	-	15	2400	460	3	41.38	74.38	46.63	607.00
RGF090LD2A0AAA	7.5	86000	-	-	15	2650	460	3	41.25	88.50	59.50	787.00
RGF102LD2A0AAA	8.5	98000	-	-	15	3400	460	3	49.38	88.50	59.50	868.00
RGF120LD2A0AAA	10	118000	-	-	15	3500	460	3	49.38	88.50	59.50	878.00
RGF150LD2A0AAA	12.5	136000	-	-	15	3750	460	3	49.38	88.50	59.50	1041.00
RGF180LD2A0AAA	15	174000	-	-	14.5	5250	460	3	57.38	115.88	63.38	1480.00
RGF240LD2A0AAA	20	248000	-	-	14.5	7000	460	3	49.38	141.50	86.38	2000.00
RGF300LD2A0AAA	25	278000	-	-	14	8750	460	3	57.38	141.50	86.38	2174.00
RGF336LDJA0AAA[1]	27.5	314000	-	-	14	10000	460	3	57.38	157.75	86.38	2351.00

[1] Horizontal

A/C UNIT, ELECTRIC COOL/GAS HEAT



RGF036HE2A0AAA

RGF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B GAS HEATING/ELECTRIC COOLING - 3 PHASE - MEDIUM HEAT

The new 3 to 6 ton RGF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	IEER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RGF036HE2A0AAA	3	34000	13.4	11.5	-	1050	208-230	3	33.38	74.38	46.63	482.00
RGF048HE2A0AAA	4	48000	13.4	11.5	-	1500	208-230	3	33.38	74.38	46.63	543.00
RGF060HE2A0AAA	5	57500	13.4	11.4	-	1500	208-230	3	33.38	74.38	46.63	556.00
RGF072HE2A0AAA	6	70000	-	-	15	2400	208-230	63	33.38	74.38	46.63	647.00
RGF090HE2A0AAA	7.5	86000	-	-	15	2650	208-230	3	41.25	88.50	59.50	787.00
RGF102HE2A0AAA	8.5	98000	-	-	15	3400	208-230	3	49.38	88.50	59.50	868.00
RGF120HE2A0AAA	10	118000	-	-	15	3500	208-230	3	49.38	88.50	59.50	878.00
RGF150HE2A0AAA	12.5	136000	-	-	15	3750	208-230	3	49.38	88.50	59.50	1041.00
RGF180HE2A0AAA	15	174000	-	-	14.5	5250	208-230	3	57.38	115.88	63.38	1480.00
RGF210HE2A0AAA	17.5	206000	-	-	14.5	6125	208-230	3	49.38	127.88	86.38	1800.00
RGF240HE2A0AAA	20	248000	-	-	14.5	7000	208-230	3	49.38	141.50	86.38	2000.00
RGF240HEJA0AAA[1]	20	248000	-	-	14.5	7000	208-230	3	49.38	141.50	86.38	2000.00
RGF300HE2A0AAA	25	278000	-	-	14	8750	208-230	3	57.38	141.50	86.38	2174.00
RGF036LE2A0AAA	3	34000	13.4	11.5	-	1050	460	3	33.38	74.38	46.63	482.00
RGF048LE2A0AAA	4	48000	13.4	11.5	-	1500	460	3	33.38	74.38	46.63	543.00
RGF060LE2A0AAA	5	57500	13.4	11.4	-	1500	460	3	33.38	74.38	46.63	556.00
RGF072LE2A0AAA	6	70000	-	-	15	2400	460	3	41.38	74.38	46.63	607.00
RGF090LE2A0AAA	7.5	86000	-	-	15	2650	460	3	41.25	88.50	59.50	787.00
RGF102LE2A0AAA	8.5	98000	-	-	15	3400	460	3	49.38	88.50	59.50	868.00
RGF120LE2A0AAA	10	118000	-	-	15	3500	460	3	49.38	88.50	59.50	878.00
RGF150LE2A0AAA	12.5	136000	-	-	15	3750	460	3	49.38	88.50	59.50	1041.00
RGF180LE2A0AAA	15	174000	-	-	14.5	5250	460	3	57.38	115.88	63.38	1480.00
RGF210LE2A0AAA	17.5	206000	-	-	14.5	6125	460	3	49.38	127.88	86.38	1800.00
RGF240LEJF0AAA[1]	20	248000	-	-	14.5	7000	460	3	49.38	141.50	86.38	2350.00
RGF240LE2A0AAA	20	248000	-	-	14.5	7000	460	3	49.38	141.50	86.38	2000.00
RGF300LE2A0AAA	25	278000	-	-	14	8750	460	3	57.38	141.50	86.38	2174.00

[1] Horizontal



RGF036HG2A0AAA

RGF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B GAS HEATING/ELECTRIC COOLING - 3 PHASE - ULTRA LOW NOX GAS LOW HEAT

The new 3 to 6 ton RGF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RGF036HG2A0AAA	3	34000	13.4	11.5	1050	208-230	3	33.38	74.38	46.63	512.00
RGF048HG2A0AAA	4	48000	13.4	11.5	1500	208-230	3	33.38	74.38	46.63	573.00
RGF060HG2A0AAA	5	57500	13.4	11.4	1500	208-230	3	33.38	74.38	46.63	586.00
RGF036LG2A0AAA	3	34000	13.4	11.5	1050	460	3	33.38	74.38	46.63	512.00
RGF048LG2A0AAA	4	48000	13.4	11.5	1500	460	3	33.38	74.38	46.63	573.00
RGF060LG2A0AAA	5	57500	13.4	11.4	1500	460	3	33.38	74.38	46.63	586.00

A/C UNIT, ELECTRIC COOL



PAB442000H000B

PERFORMANCE 14 PACKAGED AIR CONDITIONER UNIT - 3 PHASE

Muggy, hot weather is no problem with our efficient packaged air conditioner. The multi-speed blower motor quietly delivers better home cooling comfort and helps keep humidity in check.

FEATURES & BENEFITS

- Quiet performance (as low as 70 decibels)
- Multi-speed blower motor for improved temperature and humidity control
- Built to withstand bad weather and debris
- Designed for lasting performance
- R-454B refrigerant continues our legacy of dedication to environmental stewardship. This refrigerant achieves a remarkable 75% reduction in global warming potential while preserving the non-ozone depleting properties of our previous refrigerant.

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel sound, soft mount compressor and blower motor
- Compatible with humidity sensing thermostats
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling capacity: 2–5 tons

Arcoaire Air Conditioning & Heating

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PAB442000H000B*	3.5	42000	13.4	11.05	1350	208/230	3	44.75	48.20	44.20	388.00
PAB448000L000B*	5	48000	13.4	11.05	1600	460	3	51.00	48.25	44.19	477.00
PAB460000L000B*	5	60000	13.4	11.05	1750	460	3	48.75	48.20	44.20	451.00
PAB436000H000B*	3	36000	13.4	11.05	1150	208/230	3	44.75	48.20	32.60	354.00
PAB448000H000B*	4	48000	13.4	11.05	1600	208/230	3	54.75	48.20	44.20	437.00
PAB460000H000B*	5	60000	13.4	11.05	1750	208/230	3	48.75	48.20	44.20	451.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

A/C UNIT, ELECTRIC COOL



RAF036H02A0AAA

RAF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B ELECTRIC COOLING/OPTIONAL ELECTRIC HEAT - 3 PHASE

The new 3 to 6 ton RAF rooftop units (RTUs) with R-454B and X-Vane Fan Technology offer an environmentally sustainable solution for a brighter future.

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- Single point gas and electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	IEER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RAF036H02A0AAA	3	34000	14	11.8	-	1050	208-230	3	33.38	74.38	46.63	482.00
RAF048H02A0AAA	4	48000	14	11.8	-	1500	208-230	3	33.38	74.38	46.63	543.00
RAF060H02A0AAA	5	57500	14	11.4	-	1500	208-230	3	33.38	74.38	46.63	556.00
RAF072H02A0AAA	6	70000	-	-	15.5	2400	208-230	3	41.38	74.38	46.63	607.00
RAF090H02A0AAA	7.5	86000	-	-	15.2	2650	208-230	3	41.25	88.13	59.50	787.00
RAF102H02A0AAA	8.5	98000	-	-	15.2	3400	208-230	3	49.38	88.13	59.50	868.00
RAF120H02A0AAA	10	118000	-	-	15.2	3500	208-230	3	49.38	88.13	59.50	878.00
RAF150H02A0AAA	12.5	136000	-	-	15.2	3750	208-230	3	49.38	88.13	59.50	1041.00
RAF180H02A0AAA	15	174000	-	-	14.7	5250	208-230	3	57.38	115.88	63.38	1408.00
RAF210H02A0AAA	17.5	206000	-	-	14.7	6125	208-230	3	49.38	127.88	86.38	1800.00
RAF210H0JA0AAA[1]	17.5	206000	-	-	14.7	6125	208-230	3	49.38	127.88	86.38	1800.00
RAF240H02A0AAA	20	248000	-	-	14.7	7000	208-230	3	49.38	141.50	86.38	2000.00
RAF240H0JA0AAA[1]	20	248000	-	-	14.7	7000	208-230	3	49.38	141.50	86.38	2000.00
RAF300H02A0AAA	25	278000	-	-	14.2	8750	208-230	3	57.38	141.50	86.38	2174.00
RAF300H0JA0AAA[1]	25	278000	-	-	14.2	8750	208-230	3	57.38	141.50	86.38	2174.00
RAF036L02A0AAA	3	34000	14	11.8	-	1050	460	3	33.38	74.38	46.63	482.00
RAF048L02A0AAA	4	48000	14	11.8	-	1500	460	3	33.38	74.38	46.63	543.00
RAF060L02A0AAA	5	57500	14	11.4	-	1500	460	3	33.38	74.38	46.63	556.00
RAF072L02A0AAA	6	70000	-	-	15.5	2400	460	3	41.38	74.38	46.63	607.00
RAF090L02A0AAA	7.5	86000	-	-	15.2	2650	460	3	41.25	88.13	59.50	787.00
RAF102L02A0AAA	8.5	98000	-	-	15.2	3400	460	3	49.38	88.13	59.50	868.00
RAF120L02A0AAA	10	118000	-	-	15.2	3500	460	3	49.38	88.13	59.50	878.00
RAF150L02A0AAA	12.5	136000	-	-	15.2	3750	460	3	49.38	88.13	59.50	1041.00
RAF180L02A0AAA	15	174000	-	-	14.7	5250	460	3	57.38	115.88	63.38	1408.00
RAF180L03A0AAA	15	174000	-	-	14.7	5250	460	3	57.38	115.88	63.38	1408.00
RAF210L02A0AAA	17.5	206000	-	-	14.7	6125	460	3	49.38	127.88	86.38	1800.00
RAF210L0JA0AAA[1]	17.5	206000	-	-	14.7	6125	460	3	49.38	127.88	86.38	1800.00
RAF240L02A0AAA	20	248000	-	-	14.7	7000	460	3	49.38	141.50	86.38	2000.00
RAF240L0JA0AAA[1]	20	248000	-	-	14.7	7000	460	3	49.38	141.50	86.38	2000.00
RAF300L02A0AAA	25	278000	-	-	14.2	8750	460	3	57.38	141.50	86.38	2174.00
RAF300L0JA0AAA[1]	25	278000	-	-	14.2	8750	460	3	57.38	141.50	86.38	2174.00

[1] Horizontal

HEAT PUMP UNIT



PHB436000H000B

QUIETCOMFORT 14 PACKAGED HEAT PUMP - 3 PHASE

You can enjoy comfort every season with our efficient packaged electric heating and cooling heat pump. It features a single-stage compressor and multi-speed blower for even temperature control and reduced humidity in the warm seasons to quietly deliver better comfort.

FEATURES & BENEFITS

- Quiet performance (as low as 70 decibels)
- Multi-speed blower motor for improved temperature and humidity control
- Build to withstand bad weather and debris
- Designed for corrosion resistance and lasting performance
- R-454B refrigerant continues our legacy of dedication to environmental stewardship. This refrigerant achieves a remarkable 75% reduction in global warming potential while preserving the non-ozone depleting properties of our previous refrigerant.

SPECIFICATIONS

- Efficient single-stage scroll compressor
- Efficient multi-speed ECM blower motor
- Advanced electronic control switches quietly between heating, cooling and defrost modes
- System protecting high- and low-pressure switches
- Dense wire hail guard grille and raised coil design for protection against weather and debris
- Corrosion-resistant aluminum coil design
- Sound reducing features: vibration-reducing top panel, soft mounted compressor and blower motor, and Quiet Shift defrost
- Compatible thermostat: heat/cool and humidity sensing
- Rooftop or ground level installation
- Lower global warming potential R-454B refrigerant
- Cooling/heating capacity: 2–5 tons

Arcoaire Air Conditioning & Heating

								Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
PHB436000H000B*	3	36000	13.4	11.05	1150	208/230	3	54.75	48.20	32.60	420.00
PHB436000L000B*	3	36000	13.4	11.05	1150	460	3	54.75	48.20	32.60	420.00
PHB442000H000B*	3.5	42000	13.4	11.05	1350	208/230	3	54.75	48.20	44.20	440.00
PHB442000L000B*	3.5	42000	13.4	11.05	1350	460	3	54.75	48.20	44.20	440.00
PHB448000H000B*	4	48000	13.4	11.05	1600	208/230	3	44.75	48.20	44.20	440.00
PHB448000L000B*	4	48000	13.4	11.05	1600	460	3	44.75	48.20	44.20	440.00
PHB460000H000B*	5	60000	13.4	11.05	1750	208/230	3	48.75	48.20	44.20	510.00
PHB460000L000B*	5	60000	13.4	11.05	1750	460	3	48.75	48.20	44.20	510.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT PUMP UNIT



RHF036H02A0AAA

RHF SINGLE PACKAGED ROOFTOP UNITS WITH R-454B HEAT PUMP - 3 PHASE

The new 3 to 6 ton RHF036-072 Series packaged heat pump rooftop units (RTU) with X-Vane Fan Technology provides value added benefits never seen in this type of equipment before

- Single point electrical connections
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to- access tool-less filter door, filter track tilts out for filter removal and replacement, and filter size consistency across units

Arcoaire Air Conditioning & Heating

									Dimensions (In.)		Dimensions (In.)	
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	EER2	IEER2	CFM	Voltage	Phase	H	W	D	Ship Wgt (Lbs.)
RHF036H02A0AAA	3	36000	13.4	11.5	-	1275	208-230	3	33.38	74.38	46.63	467.00
RHF048H02A0AAA	4	48000	13.4	11.5	-	1600	208-230	3	33.38	74.38	46.63	473.00
RHF060H02A0AAA	5	60000	13.4	11.5	-	2000	208-230	3	41.38	74.38	46.63	584.00
RHF072H02A0AAA	6	72000	-	-	15	2500	208-230	3	41.38	74.38	46.63	589.00
RHF090H02A0AAA	7.5	86000	-	-	15	3000	208-230	3	49.38	88.13	59.50	805.00
RHF102H02A0AAA	8.5	96000	-	-	14.5	3400	208-230	3	49.38	88.13	59.50	867.00
RHF120H02A0AAA	10	116000	-	-	15	4000	208-230	3	49.38	88.13	59.50	955.00
RHF150H02A0AAA	12.5	145000	-	-	15	5500	208-230	3	57.38	115.88	63.38	1250.00
RHF181H02A0AAA	15	172000	-	-	14	3600	208-230	3	49.38	127.88	86.38	1627.00
RHF240H02A0AAA	20	240000	-	-	14	8000	208-230	3	57.38	141.50	86.38	2057.00
RHF300H02A0AAA	25	278000	-	-	14	8800	208-230	3	57.38	141.50	86.38	2125.00
RHF036L02A0AAA	3	36000	13.4	11.5	-	1275	460	3	33.38	74.38	46.63	467.00
RHF048L02A0AAA	4	48000	13.4	11.5	-	1600	460	3	33.38	74.38	46.63	473.00
RHF060L02A0AAA	5	60000	13.4	11.5	-	2000	460	3	41.38	74.38	46.63	584.00
RHF072L02A0AAA	6	72000	-	-	15	2500	460	3	41.38	74.38	46.63	589.00
RHF090L02A0AAA	7.5	86000	-	-	15	3000	460	3	49.38	88.13	59.50	805.00
RHF102L02A0AAA	8.5	96000	-	-	14.5	3400	460	3	49.38	88.13	59.50	867.00
RHF120L02A0AAA	10	116000	-	-	15	4000	460	3	49.38	88.13	59.50	955.00
RHF150L02A0AAA	12.5	145000	-	-	15	5500	460	3	57.38	115.88	63.38	1250.00
RHF181L02A0AAA	15	172000	-	-	14	3600	460	3	49.38	127.88	86.38	1627.00
RHF181L0JA0AAA[1]	15	172000	-	-	14	3600	460	3	49.38	127.88	86.38	1627.00
RHF240L02A0AAA	20	240000	-	-	14	8000	460	3	57.38	141.50	86.38	2057.00
RHF240L0JA0AAA[1]	20	240000	-	-	14	8000	460	3	57.38	141.50	86.38	2057.00
RHF300L02A0AAA	25	278000	-	-	14	8800	460	3	57.38	141.50	86.38	2125.00

[1] Horizontal

DUCTLESS SPLIT DAIKIN



FTXC09AXVJU

R-32 ENTRA SINGLE ZONE WALL-MOUNT INDOOR UNIT - HEAT PUMP ONLY

- Indoor Unit Quiet Operation
- Auto Fan Speed
- Wide Angle, Vertical, Auto-Swing (Up and Down) Louvers
- Catechin Filter / Green Tea Filter
- Titanium Apatite Air-Purifying Filter
- Indoor Unit ON/OFF Button

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
FTXC09AXVJU	0.75	9000	13000	18.00	208/230	1	466	43	21.69	11.19	26.50	20.90
FTXC12AXVJU	1	12000	16400	18.00	208/230	1	473	45	21.69	11.19	26.50	20.90
FTXC18AXVJU	1.5	18000	22500	18.00	208/230	1	754	48	27.41	13.81	36.63	20.90
FTXC24AXVJU	2	24000	27300	18.00	208/230	1	754	51	27.41	13.81	36.63	20.90



RXC09AXVJU

R-32 ENTRA SINGLE ZONE WALL-MOUNT OUTDOOR UNIT - HEAT PUMP ONLY

- Daikin Swing Compressor
- Inverter Control
- PAM: Pulse Amplitude Modulation
- Powerful Mode
- Blue Fin Coil Protection
- Whisper Quiet Operation
- Auto Defrost
- Auto Restart (after Power Failure)
- Precharged for up to 33'

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
RXC09AXVJU	0.75	9000	9400	18.00	208/230	1	1051	46	21.69	11.19	26.50	60.00
RXC12AXVJU	1	12000	11300	18.00	208/230	1	1051	48	21.69	11.19	26.50	60.00
RXC18AXVJU	1.5	18000	18000	18.00	208/230	1	1879	53	27.41	13.81	36.63	101.00
RXC24AXVJU	2	24000	23000	18.00	208/230	1	1879	53	27.41	13.81	36.63	101.00



FTXV09AVJU9

R-32 AURORA MULTI ZONE WALL-MOUNT COLD CLIMATE HEAT PUMP INDOOR UNIT

AURORA R-32 indoor models include a wireless infrared controller and are compatible with the Daikin ONEHome app for Wi-Fi. They are also compatible with many optional s21-based single- and multi-zone control solutions, including the Daikin ONE smart thermostat series, DKN Plus Interface, and KRP928BB2S DIII-Net adaptor. All indoor units will require the KRP067A41 adaptor to interface with the controls.

- Indoor Unit Quiet Operation
- Auto Fan speed
- Wide Angle Vertical Auto-Swing (Up and Down) Louvers
- Catechin Filter / Green Tea Filter
- Titanium Apatite Air-Purifying Filter
- Indoor Unit ON/OFF Button

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
FTXV09AVJU9	0.75	90000	90000	208/230	1	281	43	11.25	8.75	30.31	19.00
FTXV12AVJU9	1	12000	12000	208/230	1	392	45	11.25	8.75	30.31	19.00
FTXV15AVJU9	1.25	15000	15000	208/230	1	392	45	11.63	10.38	39.00	27.00
FTXV18AVJU9	1.5	18000	18000	208/230	1	565	48	11.63	10.38	39.00	27.00
FTXV24AVJU9	2	24000	24000	208/230	1	629	52	11.63	10.38	39.00	27.00

DUCTLESS SPLIT DAIKIN



RXT09AVJU9

R-32 AURORA MULTI ZONE WALL-MOUNT COLD CLIMATE HEAT PUMP OUTDOOR UNIT

AURORA R-32 indoor models include a wireless infrared controller and are compatible with the Daikin ONEHome app for Wi-Fi. They are also compatible with many optional s21-based single- and multi-zone control solutions, including the Daikin ONE smart thermostat series, DKN Plus Interface, and KRP928BB2S DIII-Net adaptor. All indoor units will require the KRP067A41 adaptor to interface with the controls.

- Daikin Swing Compressor
- Inverter Control
- PAM: Pulse Amplitude Modulation
- Powerful Mode
- Blue Fin Coil Protection
- Whisper Quiet Operation
- Auto Defrost
- Auto Restart (after Power Failure)
- Precharged for up to 49'

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
RXT09AVJU9	0.75	9000	10900	21	208/230	1	381	49	21.94	11.20	26.56	63.00
RXT12AVJU9	1	12000	13500	20	208/230	1	392	50	21.94	11.20	26.56	73.00
RXT15AVJU9	1.25	15000	21600	21	208/230	1	565	52	29.50	12.63	31.75	113.00
RXT18AVJU9	1.5	18000	21600	21	208/230	1	565	55	29.50	12.63	34.75	135.00
RXT24AVJU9	2	24000	24000	21	208/230	1	629	55	29.50	12.63	34.75	127.00



CTXV07AVJU9

R-32 MULTI-ZONE WALL-MOUNT INDOOR UNIT

- New stylish flat panel design enhances any interior space
- Available in capacities from 7,500 Btu/h to 24,000 Btu/h
- Easy to clean front panel with a flat smooth surface that can be removed for additional cleaning
- Five different airflow distribution angles programmable by the optional wireless controller
- Vertical auto-swing mechanism ensues efficient air distribution with louvers that automatically close when the unit is turned off
- Wide air discharge outlet distributes comfortable airflow throughout the entire space
- Mold proof drain pan and air filter
- Condensate drain pipe can be installed on either the left or right side of the unit

								Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
CTXV07AVJU9	0.5	7000	20.60	208/230	1	332	39	11.25	8.75	30.31	19



2MXM18AVJU9

R-32 MXM MULTI-ZONE OUTDOOR UNIT

- Daikin swing compressor
- PAM: Pulse Amplitude Modulation
- Inverter Control
- Blue Fin Anti-corrosion coating
- Quiet outdoor unit operation
- Night Quiet Mode
- Self Diagnositc w/ LED lights
- Wiring error check function
- Quick Warming Function
- Priority Room Setting
- Cool/Heat mode lock
- Energy efficient operation

									Dimensions (In.)			
Part No.	Nominal Tons	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	SEER2	Voltage	Phase	CFM	dB(A)	H	D	W	Ship Wgt (Lbs.)
2MXM18AVJU9	1.5	17200	18500	21.00	208/230	1	2112	54	29.50	12.63	34.75	127.00
3MXM24AVJU9	2	23000	24000	21.00	208/230	1	2005	54	29.50	12.63	34.75	141.00
4MXM36AVJU9	3	34200	34600	20.00	208/230	1	2402	60	29.50	12.63	34.75	146.00

DAIKIN ACCESSORIES


DCM601A71

INTELLIGENT TOUCH MANAGER

The iTM provides refined and energy efficient control of Daikin VRVIII, VRV WIII, VRVIII-S and/or mixed VRVIII/VRV-IIIS/SkyAir indoor units, and Daikin RA and FTXS indoor units with the use of the KRP928BB2S RA adapter. With its user friendly tab and icon menus, and scheduling capabilities, this controller makes management of indoor units and other facilities equipment easy. The iTM is linked directly to the system via a Daikin DIII-Net connection without the need for a PC.

The iTM is capable of monitoring, operating, and scheduling a maximum of 64 indoor unit groups (up to 512 indoor unit groups with the addition of the iTM Plus Adapter) from a networked PC's web browser. It is capable of creating general user access and sending detailed error emails to a customized distribution list (up to 10 email addresses).

- Support for centralized control remotely using a PC with a web browser (standard)
- Floor plan layout: capable of displaying site floor plan as the background for visual navigation. Indoor unit, DIII-Net DI and DIO, and External DI, DO, and Ai icons with operational status can be placed on the floor layout. Up to 60 floor layout sections can be created
- Backlit 10.4" LCD display
- 7 day weekly pattern
- 100 independent schedules configurable with up to 20 events for each days schedule
- A maximum of 40 exception days can be scheduled on the yearly schedule (repeats yearly)

		Dimensions (In.)		
Part No.	Description	H	W	D
DCM601A71	intelligent Touch Manager (iTM)	1.00	1.00	1.97


DCS601C71

INTELLIGENT TOUCH CONTROLLER

Provides refined and energy efficient control of Daikin VRVIII, VRVIII-S and/or mixed VRVIII/VRV-IIIS/SkyAir air conditioning installations. With its user friendly color icons and scheduling capabilities, this controller makes management of A/C units and other facilities equipment easy, even among multiple buildings.

Intended for use in conjunction with installations of up to 128 groups or zones, the controller is linked directly to the system via a Daikin DIII-NET connection without the need for a PC. The optional Power Proportional Distribution (PPD-Optional) feature supplies the user with a reasonably calculated apportionment of the total power consumption by the Daikin air-conditioning system to individual units on the system.

- Support for centralized control remotely using a PC with a Web browser (Optional)
- Sending of e-mail alerts to a specified address when malfunctions occur (Optional)
- Built-in Ethernet port for connecting to the Internet or intranet
- Management of facilities and ancillary equipment other than A/C units (Compatible with DIO unit and DI unit)
- Simple Interlock Function

Additional Features for DCS601A72

The iTC DIII-Net Plus Adapter provides control for all VRV, SkyAir indoor units, and Daikin RA and FTXS indoor units with the use of the KRP928BB2S RA Adapter. It is capable of handling a maximum of 64 indoor unit groups and 128 indoor units connected to a maximum of 10 outdoor units. The iTC DIII-Net Plus Adapter is to be used in conjunction with intelligent Touch Controller. This combination will provide intelligent Touch Controller monitoring and control of up to 128 indoor unit groups, 256 indoor units, and 20 outdoor units.

		Dimensions (In.)		
Part No.	Description	H	W	D
DCS601C71	Intelligent Touch Controller	1.00	1.00	4.22
DCS601A72	Intelligent Touch Controller DIII-Net Plus Adapter	1.00	1.00	1.66

DAIKIN ACCESSORIES



BRC944B2A08

WIRED CONTROLLER

- Includes 26 ft. of cable
- Built in one time or daily timer functionality with up to 2 timer actions per day
- Display of setpoint temperatures per 1°F/C
- Selectable auto / cool / heat / dry operation modes with adjustable temperature and airflow rates
- Required remote control adapter PCB included

Part No.	Description	Use with
BRC944B2A08	Wired Remote Controller Kit	RX Std. Efficiency, RXS High Efficiency, 2MXS & 4MXS
KRP800B1	Interface FTXN	BRC944B2A08
KRP980B1	Interface Adapter	BRC944B2 09/12 Class
KRP980B2E	Adaptor for Wired Controllers	FTX18/24, FTXN18/24
KRP067A41E	Adaptor for Wired Controllers	FTX09/12



BRC1E73

NAVIGATION CONTROLLER

- Up to 16 indoor units are controllable in one group
- Backlit LCD display in English, French, or Spanish
- Built in 7, 5+2, 5+1+1 Weekly Schedule Timer with up to 5 actions per day with independent cool/heat or setback setpoints
- Display of room and setpoint temperatures per 1°F/C

Additional features for BRC1E72

- Backwards compatible
- Simple display mode
- Face decal option to hide unnecessary buttons

Part No.	Description	Use with
BRC1E73	Navigation controller	SkyAir Models: FAQ, FBQ, FCQ, FHQ, FTQ
BRC1E52A7	Navigation controller	FXFQ_TVJU



BRC7C812

WIRELESS REMOTE CONTROLLER

- Up to 16 indoor units can be controlled simultaneously

Part No.	Description	Use with
BRC4C82	Wireless remote controller, includes remote control and wireless receiver	VRV Models: FXDQ; FXMQ; FXSQ; FXLQ; FXNQ; FXOQ
BRC7C812	Wireless remote controller	VRV Model: FXHQ, SkyAir Model: FHQ
BRC7E83	Wireless remote controller	VRV Model: FXFQ, SkyAir Model: FCQ
BRC7E818	Wireless remote controller, includes remote control and IR receiver	VRV Model: FXAQ



BSQ36TVJ

BRANCH SELECTOR BOX, VRV IV

Providing flexibility and minimizing mechanical and electrical installation costs, Daikin's branch selector boxes are ideal for spaces that require individual heating and cooling control.

- Extended range of product offerings with 4, 6, 8, 10 and 12 port options
- No drain or condensate consideration required
- Unlimited number of unused ports per box or system
- Reduced electrical and mechanical installation costs
- Ultimate flexibility: choose multi-port or single-port styles to customize your design
- Up to 72% reduction in footprint, as compared to previous generation models
- Up to 17% lower sound levels compared to current VRV III models
- Up to 65% reduction in weight, as compared to previous generation models

			Dimensions (In.)		
Part No.	Nb. of Branches	Nb. of Connectable Units per Branch	H	W	D
BSQ36TVJ*	1	4	1.00	1.00	18.94
BSQ60TVJ*	1	8	1.00	1.00	18.94
BSQ96TVJ*	1	8	1.00	1.00	18.94
BS4Q54TVJ*	4	5	1.00	1.00	18.94
BS10Q54TVJ*	10	5	1.00	1.00	18.94
BS12Q54TVJ*	12	5	1.00	1.00	18.94

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



KHRP25A22T

REFNET

REFNET joints distribute an equal flow of refrigerant in every branch of the piping network.
Use with VRV series.

DAIKIN

Part No.	Description	Use with
KHRP25A22T	REFNET Joint	REYQ
KHRP25A33T	REFNET Joint	REYQ
KHRP26A22T	REFNET Joint	RXYQ, RXYMQ
KHRP26A33T	REFNET Joint	RXYQ
KHRP25M72TU	REFNET Joint	REYQ96 to REYQ336, RWEYQ144 to RWEYQ252
KHRP25M73TU	REFNET Joint	REYQ192 to REYQ336, RWEYQ168 to RWEYQ252
KHRP26M72TU	REFNET Joint	RXYQ120 to RXYQ360, RWEYQ144 to RWEYQ252
KHRP26M73TU	REFNET Joint	RXYQ192 to RXYQ360, RWEYQ168 to RWEYQ252
KHRP25M33H	REFNET Header, Max. 8 Branches	REYQ, RWEYQ
KHRP25M72H	REFNET Header, Max. 8 Branches	REYQ96 to REYQ336, RWEYQ144 to RWEYQ252
KHRP25M73HU	REFNET Header, Max. 8 Branches	REYQ192 to REYQ336, RWEYQ168 to RWEYQ252
KHRP26M22H	REFNET Header, Max. 4 Branches	RXYQ, RWEYQ, RXYMQ
KHRP26M33H	REFNET Header, Max. 8 Branches	RXYQ, RWEYQ, RXYMQ
KHRP26M72H	REFNET Header, Max. 8 Branches	RXYQ120 to to RXYQ360, RWEYQ144 to RWEYQ252
KHRP26M73HU	REFNET Header, Max. 8 Branches	RXYQ192 to to RXYQ360, RWEYQ168 to RWEYQ252



HKR03

ELECTRIC HEATER

Field-installed electric heater options available from3 kW to 15 kW (electric heater connection kit part no. KER26A60 required for electric heat integration)

DAIKIN

Part No.	Description	Use with
HKR03	Electric Heater, 3 kW	FTQ18-42PBVJU (Electric Heater Option with Heat Pump is Allowed)
HKR05C	Electric Heater, 5 kW	FTQ30-42PBVJU (Electric Heater Option with Heat Pump is Allowed)
HKR15C	Electric Heater, 15 kW	FTQ42PBVJU (Electric Heater Option Only, Acceptable for 2-Step Control)
KER26A60	Electric Heater Connection Kit	HKR Series



2F0185351

ULTRA LOW AMBIENT KIT

The Ultra Low Ambient kit will extend worry free operation with factory tested and approved cooling operation down to -40°F. Configuration is quick and easy with the additions of a low ambient PCB and outdoor unit wind baffle to a standard SkyAir cooling only, wall mounted (FTXS/RKS) system.
The Ultra Low Ambient kit contains a code heater, crank case heater, and printed circuit board.
Optional outdoor unit wind baffle, KPW5E112, is required and sold separately.

DAIKIN

Part No.	Description	Use with
2F0185351	Ultra Low Ambient Kit for RKS/FTXS	RKS30LVJU (Outdoor), FTXS30LVJU (Indoor)
2F0185352	Ultra Low Ambient Kit for RKS/FTXS	RKS36LVJU (Outdoor), FTXS36LVJU (Indoor)



KPW063B4

WIND BAFFLE

DAIKIN

Part No.	Description	Use with
KPW063B4	Wind Baffle	For 2/3/4MXS/MXL
KPW082A41	Wind Baffle	5MXS48
KPW5G112	Wind Baffle	RXS30/36
KPW038A4	Low Ambient Wind Baffle	For RKN/RXN09,12
KPW5F80	Low Ambient Wind Baffle	SkyAir 2-fan RZQ and RZR 30,000 - 48,000 BTU
KPW945B4	Wind Baffle	RXS15/24

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DAIKIN ACCESSORIES



BHFP26MA56U

MULTI-PIPING CONNECTION KIT

Outdoor unit multi piping connection kit to use with VRV series.

Part No.	Description	Use with
BHFP26MA56U	Outdoor unit multi piping connection kit	RWEYQ144PTJU to RWEYQ168PTJU
BHFP26MA84U	Outdoor unit multi piping connection kit	RWEYQ168PTJU to RWEYQ252PTJU
BHFP26P90U	Outdoor unit multi piping connection kit	REYQ144PB to REYQ240PB
BHFP26P136U	Outdoor unit multi piping connection kit	REYQ264PB to REYQ336PB
BHFP22P151U	Outdoor unit multi piping connection kit	RXYQ264PB to RXYQ360PB



DACAWB3

MOUNTING BRACKET

Part No.	Description	Use with
DACAWB3	Mounting Bracket Up to 500 Lbs	RXS, RZQ



BYCQ125BW1

DECORATIVE PANEL

Part No.	Description	Use with
BYCQ125BW1	Decorative Panel	FXFQ_TVJU
BYCP125KW1	Decorative Panel	FCQ, FXFQ-PAVJU
BYEP40AW1	Decorative Panel	FXEQ7-15
BYEP63AW1	Decorative Panel	FXEQ18-24
BYFQ60B3W1	Decorative Panel	FFQ
BYFQ60C2W1W	Decorative Panel, White	FXZQ-A



KRCS011B

REMOTE TEMPERATURE SENSOR

Part No.	Description
KRCS011B	Remote Temperature Sensor for SkyAir, VRV (Round Flow Type Excluded)
KRCS014B	Remote Temperature Sensor for Round Flow Type SkyAir and VRV
KRCSPW40	Remote Temperature Sensor Cable 40' Plenum Rated
DACAKRCSPW80	Remote Temperature Sensor Cable 80' Plenum Rated



58340803

PVC COATED METAL CLAD CABLE

MSW stranded (non-shielded) cable used for mini-split installation

- THHN, 600 volt
- Power and control cable is sunlight resistant and suitable for direct burial underground.
- Does not require additional conduit inside the structure
- May not be used in a Plenum Space.

Part No.	Gauge	Nb. of Conductors	Length (Ft.)
58340803	14.0	4	50.0
58340802	14.0	4	250.0



MSWP1825

CONTROL WIRE

Control wire stranded (non-shielded) gray, plenum rated.

Part No.	Gauge	Nb. of Conductors	Length (Ft.)
MSWP1825	18.0	2	500.0



FSG1

Part No.	Description	Use with
FSG1	Flare Size Gauge	RX Series Heat Pumps

ACCESSORIES


MSWCH

WALL CONTROL

Part No.	Description
MSWCH*	Wall Control
WKAB*	Optional Wall Control for Sea Breeze 15 SEER Mini-Split Units
WKWH105*	Optional Wall Control for Sea Breeze 15 SEER Mini-Split Units
WKLCAC*	Optional Wall Control for Sea Breeze 15 SEER Mini-Split Units
WKAB5V	SEA BREEZE ADAPTER BOARD FOR 7DP120X5V


65775

UNIVERSAL REMOTE CONTROL

Will operate with virtually any mini-split produced in any region of the world. Programming is accomplished by imputing your mini-split brand code or use the easy and intuitive self learn mode to set-up the remote to operate your mini-split. Operates with 2 AAA batteries.

- One touch function with LCD display
- Braille enabled
- Celsius or fahrenheit display
- Clock display
- 24 Hr. on/off timer for energy savings
- Displays room temperature
- Energy saver feature
- Automatically determines heat or cool mode

Part No.	Description
65775*	Universal Remote Control for Mini-Splits


MCCUT

MC ROTARY CUTTER

- Quickly splits the armored jacket on #10, 12 and 14 armored cables and 3/8" flexible conduit with a few turns of the handle
- Adjustable cutting depth for standard and reduced diameter BX/MC cables
- Stores up to 6 extra blades in handle knob
- Durable die cast epoxy enameled construction
- Less hazardous than traditional MC cable cutting methods
- Replacement blades are available (MCBLADE)
- Includes 1 Blade

Part No.	Description	Overall Length (In.)
MCCUT	MC Rotary Armor Cable Cutter	3 1/2


MCLTCA

LIQUID TIGHT CONNECTOR

Alloy steel MC connectors, liquid-tight, zinc plated.

Part No.	Description	Length (In.)	Diameter (In.)	Hex Size (In.)	Type
MCLTCA	3/4" 90° Connection	3.50	2.00	1 1/8	90 Degree
MCLTCS	3/4" 90° Connection	1 31/32	1 13/16	1 1/8	Straight


CTK141225

INSTALLATION KIT

Line sets, 1/4" wall insulated copper tubing with insulation. Kits include liquid and suction lines with flare fittings.

Part No.	Description	Length (Ft.)
CTK141225	Installation Kit, 1/4" Liquid x 1/2" Suction	25.0
CTK141250	Installation Kit, 1/4" Liquid x 1/2" Suction	50.0
CTK143825	Installation Kit, 1/4" Liquid x 3/8" Suction	25.0
CTK143850	Installation Kit, 1/4" Liquid x 3/8" Suction	50.0
CTK145825	Installation Kit, 1/4" Liquid x 5/8" Suction	25.0
CTK145850	Installation Kit, 1/4" Liquid x 5/8" Suction	50.0
CTK385825	Installation Kit, 3/8" Liquid x 5/8" Suction	25.0
CTK385850	Installation Kit, 3/8" Liquid x 5/8" Suction	50.0
AK25	Accessory kit, 25 feet of 4 conductor cable - 14 AWG, UL (14/4, white, red, black, green with black jacket), 25 feet of 2 conductor cable - 14 AWG, UL (14/2, white, black with gray jacket), 25 feet of drain hose, 64 ft of PVC tape, 3" wall sleeve, sealin	25.0

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESSORIES

Part No.	Description	Length (Ft.)
AK50	Accessory kit, 50 feet of 4 conductor cable - 14 AWG, UL (14/4, white, red, black, green with black jacket), 50 feet of 2 conductor cable - 14 AWG, UL (14/2, white, black with gray jacket), 50 feet of drain hose, 128 ft of PVC tape, 3" wall sleeve, seali	50.0


QSMS1201

MINI-SPLIT STAND

Mini-split stands provide a safe, stable platform to mount your unit on. They keep units elevated above lawn mowers, pets, snow and flooding.

- Each foot is 6" x 6" 11 gauge steel and is adjustable up to 1.25" in height
- (4) 3/8" holes allow the stand to be bolted to any surface for security and stability
- 4 points of anti-vibration isolation washers are provided while using four 50-derometer rubber pads on each foot.
- Made of 14-gauge square tubing
- Holds up to 400 Lbs.

QUICK-SLING™

Part No.	Description	Ship Wgt (Lbs.)
QSMS1201	Mini-Split Stand, Wide, 12" High, Adjustable Length 34" to 40" in 1" increments	22.00
QSMS1801[1]	Mini-Split Stand, Wide, 18" High, Adjustable Length 34" to 40" in 1" increments	28.00
QSMS1202	Dual Fan Mini-Split Stand, 12" H x 30.5" W x 38" D	24.00
QSMS1802[1]	Dual Fan Mini-Split Stand, 18" H x 30.5" W x 38" D	36.00

[1] Comes with 2 extra stability arms


87746

CONDENSER SLAB STAND

Made from heavy duty steel with powdercoat finish. This stand raises the condenser up to 13 1/2" above a flat surface. Each leg is independently adjustable to a 6° slope. Footings mountable to surface.

Min/Max mounting width: 15 3/4" - 39 5/8"
Min/Max mounting depth: 11 3/4" - 17"

RECTORSEAL

Part No.	Description	Ship Wgt (Lbs.)
87746	Condenser Slab Stand, 440 Lbs capacity	33.00


87745

SLOPE CONDENSER BRACKET

Made from heavy duty steel with powdercoat finish. This adjustable bracket accomodates a roof slope up to 45 degrees or 12" pitch providing a level mounting surface. Includes: Crossbars (2), Bracket Arms (2), Anti Vibration Mounts (4), 1" Bolt (4), Self Adhesive Level (2), 2" Lag Screw (6), 2" Anchors (6), Clip Nut (4)

RECTORSEAL

Part No.	Description	Ship Wgt (Lbs.)
87745	Slope Condenser Bracket, 330 Lbs capacity	13.00


97705

MIGHTY BRACKET™, MINI-SPLIT INSTALLATION SUPPORT TOOL

Clips to the mounting bracket of most mini-split brands in order to hold unit securely in place during installation without damaging walls.

- Allows single person installation
- Simple clip on support

RECTORSEAL

Part No.	Description	Ship Wgt (Lbs.)
97705	Mini-Split Installation Support Tool	6.75



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DUCTLESS SPLIT VRV


RXTA36AAVJU

VRV-S HEAT PUMP

The Daikin VRV-S elevates the renowned VRV air-cooled technology with its sleek, compact design tailored for small-scale installations without compromising performance. The Daikin VRV-S comes integrated with Variable Refrigerant Temperature (VRT) technology that supports optimal comfort throughout the year while maintaining overall energy efficiency.

- Addition of a 2-ton model for a complete 2- to 5-ton offering
- Long pipe lengths with vertical separation up to 164 ft. and total pipe length up to 984 ft
- Compact, space-saving single fan chassis design across all sizes
- Dependable operation in extreme ambient conditions of up to 122°F1
- Compact height of only 34-1/4" to support a range of applications
- Efficient operation and year-round energy savings through Variable Refrigerant Temperature (VRT) technology
- Improved efficiencies in heating and cooling operation compared to the previous R-410A lineup
- Quiet operation with sound levels as low as 56 dB(A) » Ease of retrofit of existing R-410A installation with the ability to re-use larger diameter refrigerant pipes via field setting
- Optional base pan heater to defrost base pan in cooler climate applications
- Increased nominal capacity compared to previous R-410A lineup up to 60,000 Btu/hr for the 5T model

		Capacity (BUTH)					Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Phase	CFM	H	W	D	Ship Wgt (Lbs.)
RXTA36AAVJU	3	36000	40000	208/230	1	3000	34.25	43.32	18.13	220.00
RXTA48AAVJU	4	48000	52000	208/230	1	3000	34.75	43.32	18.13	220.00
RXTA60AAVJU	5	60000	60000	208/230	1	3000	34.75	43.32	18.13	220.00


FXFA09AAVJU

VRV, ROUND FLOW SENSING CASSETTE

The Round Flow Sensing Cassette is ideal for open-plan applications such as classrooms and offices where adaptive comfort control is preferred. The unit provides excellent comfort, energy efficiency, and flexibility due to innovative control functions based on input from three room sensors (occupancy, air temperature, and surface temperature). With 18 configurable airflow distribution patterns, it can be efficient and provide a comfortable environment in smaller, more intricate spaces as well.

- True 360° Airflow with three room sensors enabling optimal occupant comfort and efficiency
- Application flexibility with 18 different airflow patterns ensures ideal air distribution to maximize comfort and efficiency
- Ease of outside air integration with optional fresh air intake kit
- Energy efficient with DC fan motor and auto-logic that adjusts fan speed based on space load

		Capacity (BUTH)					Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Phase	CFM	H	W	D	Ship Wgt (Lbs.)
FXFA09AAVJU	0.75	9500	10500	208/230	1	441	9.69	33.06	33.06	42.00
FXFA12AAVJU	1	12000	13500	208/230	1	441	9.69	33.06	33.06	42.00
FXFA18AAVJU	1.5	18000	20000	208/230	1	547	11.34	33.06	33.06	58.00
FXFA24AAVJU	2	23000	27000	208/230	1	776	11.34	33.06	33.06	58.00
FXFA30AAVJU	2.5	30000	34000	208/230	1	1059	9.69	33.06	33.06	42.00
FXFA36AAVJU	3	36000	40000	208/230	1	1253	9.69	33.06	33.06	42.00
FXFA48AAVJU	4	48000	54000	208/230	1	1253	11.34	33.06	33.06	58.00
FXFA54AAVJU	4.5	54000	60000	208/230	1	1253	11.34	33.06	33.06	58.00

DUCTLESS SPLIT VRV


FXTA12AAVJUA

VRV, MULTI-POSITION AIR HANDLER UNIT

The FXTA air handler features full multi-position* flexibility to meet the most demanding installation conditions. With its compact and spacesaving design at under 46" tall and only 17-1/2" wide up to 3 tons, the FXTA is an ideal choice for tight closet spaces. The FXTA is also designed for zero clearance on three sides and only 24" clearance on the front side for service-facilitating installation in restricted spaces.

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- On-board terminal for connection to external alarms and monitoring systems

DAIKIN

		Capacity (BUTH)					Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Phase	CFM	H	W	D	Ship Wgt (Lbs.)
FXTA12AAVJUA	1	12000	13500	208/230	1	360	45.00	17.50	21.00	113.00
FXTA18AAVJUA	1.5	18000	20000	208/230	1	430	45.00	17.50	21.00	113.00
FXTA24AAVJUA	2	24000	27000	208/230	1	800	45.00	17.50	21.00	113.00
FXTA30AAVJUA	2.5	30000	34000	208/230	1	1000	45.00	17.50	21.00	113.00
FXTA36AAVJUA	3	36000	40000	208/230	1	1050	45.00	17.50	21.00	113.00
FXTA42AAVJUA	3.5	42000	46000	208/230	1	1400	45.00	17.50	21.00	113.00
FXTA48AAVJUA	4	48000	54000	208/230	1	1520	45.00	17.50	21.00	113.00
FXTA60AAVJUA	5	60000	66000	208/230	1	1800	43.31	34.50	18.50	234.00



THRU WALL AIR CONDITIONING



PTC073G35AXXX

PTAC - A/C

- Memory
- Automatic Evaporator Freeze Protection
- Automatic Quick Warm-Up (For Heat Pump Models Only)
- Led Indicators and Buttons
- High-Temperature Protection in Heating Operation
- °F or °C Switchover Compressor Restart Delay

Goodman

							Dimensions (In.)			
Part No.	Cooling Capacity (BTUH)	Auxiliary Heat (kW)	CFM	Voltage	Phase	Refrigerant	H	D	W	Ship Wgt (Lbs.)
PTC073G35AXXX*	7000	3.5	330	208/230	1	R410A	16.00	21.50	42.00	98.00
PTC093G35AXXX*	9000	3.5	330	208/230	1	R410A	16.00	21.50	42.00	102.00
PTC094G35AXXX*	9000	3.7	330	265	1	R410A	16.00	21.50	42.00	102.00
PTC123G35CXXX*	12000	3.5	330	208/230	1	R410A	16.00	21.50	42.00	102.00
PTC123G50AXXX*	12000	5.0	330	208/230	1	R410A	16.00	21.50	42.00	102.00
PTC153K50AXXX	15000	5.0	100	208/230	1	R410A	16.00	21.50	42.00	113.00
PTC154K35AXXX	15000	3.7	100	265	1	R410A	16.00	21.50	42.00	113.00



PTH074K35AXXX

PTAC - HEAT PUMP

- Memory
- Automatic Evaporator Freeze Protection
- Automatic Quick Warm-Up (For Heat Pump Models Only)
- Led Indicators and Buttons
- High-Temperature Protection in Heating Operation
- °F or °C Switchover Compressor Restart Delay

Goodman

								Dimensions (In.)			
Part No.	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Auxiliary Heat (kW)	CFM	Voltage	Phase	Refrigerant	H	D	W	Ship Wgt (Lbs.)
PTH074K35AXXX	7000	12000	3.5	340	265	1	R410A	16.00	21.50	42.00	112.00
PTH093G25AXXX*	9000	8300	2.5	330	208/230	1	R410A	16.00	21.50	42.00	112.00
PTH094G35AXXX*	9000	8000	3.5	330	265	1	R410A	16.00	21.50	42.00	112.00
PTH123G25AXXX*	12000	8500	2.5	330	208/230	1	R410A	16.00	21.50	42.00	115.00
PTH124G25AXXX*	12000	11400	2.5	400	265	1	R410A	16.00	21.50	42.00	115.00
PTH124G50AXXX*	12000	17100	5.0	400	265	1	R410A	16.00	21.50	42.00	115.00
PTH154G50AXXX*	14000	13700	5.0	400	265	1	R410A	16.00	21.50	42.00	125.00



STW48AYRE

COOLING/HEAT PUMP, R410A

- One year parts warranty
- Timer, On/Off
- Clock Function
- Refrigerant R410A
- Auto Restart/ Reset
- Modes: Auto, Cool, Dry, Fan
- Illuminated display On/Off
- Sleep Mode
- Washable Filter
- Wireless remote
- Fits Standard Sleeve
- Energy Saver Mode

Sea Breeze+

					Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	CFM	Voltage	Phase	H	W	Ship Wgt (Lbs.)
STW48AYRE*	8000	270	115	1	14.50	24.20	68.00
STW410AYRE*	10000	269	115	1	14.50	24.20	68.00
STW410AZEB*	10000	275	208/230	1	14.50	24.20	69.30
STW412AYRE*	12000	286	115	1	14.50	24.20	78.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WINDOW AIR CONDITIONER



W36YREX

WINDOW AIR CONDITIONING UNITS

Window Air Conditioning units (115 Volts)

- DIGITAL CONTROL PANEL – Each portable unit has full digital display for ease of use.
- MULTIPLE FUNCTIONS – Window units have variable controls for cooling, dehumidifying and fan ventilation.
- REMOTE CONTROL – Easily control the unit at a distance with the provided remote control.
- ADAPTABLE SIDES – Units come with installation kits with expandalbe side panels to keep cool air in and warm air out.
- WARRANTY – 1 Year

				Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	Voltage	Phase	H	W	Ship Wgt (Lbs.)
W36YREX	6000	115	1	14.96	17.91	51.00
W38YREX	8000	115	1	14.96	17.91	51.00
WA312YER	12000	115	1	15.70	21.30	75.00
WA36YREX	6000	115	1	14.96	17.91	51.00
WA310YREX	10000	115	1	11.90	21.90	68.00
WA312YREX	12000	115	1	16.90	21.90	75.00
WA315YREX	14000	115	1	19.49	25.98	117.00
WA318ZREX	18000	208/230	1	19.49	25.98	158.00
WA325ZREX	25000	208/230	1	20.50	29.50	165.00
WA328ZREX	28000	208/230	1	20.50	29.50	154.30



WH48YRC

ROOM AIR CONDITIONER, R410A

- Multiple functions: cooling, dehumidifying, fan ventilation
- 3 speed fan selection: low/ medium/high
- Electronic touch control panel with remote (on electronic models only (R))
- Digital display
- Retracting louvers
- Slide-out, washable filter
- Installation kit with expandable side panels
- Temperature adjustment: 64 to 86°F
- M suffix: mechanical control
- R suffix: remote control

						Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	CFM	Voltage	Phase	Cooling Efficiency (EER)	H	W	Ship Wgt (Lbs.)
WH48YRC*	8000	642	115	1	10.9	22.00	16.00	95.00
WH412ZRB*	11600/12000	696	208/230	1	10.9	16.10	22.60	115.00
WH418ZRC*	18200/18500	446	208/230	1	10.7	23.60	17.90	145.00
WH425ZRC*	24700/25000	523	208/230	1	9.4	18.60	26.50	165.00
WA48YER*	8000	224	115	1	12.1	12.80	20.90	59.50
WA410YER*	10200	288	115	1	12.1	15.38	21.38	73.90
WA412YER*	12100	288	115	1	12.1	15.70	21.30	79.20
WA414YER*	14300	430	115	1	11.9	17.71	23.62	117.00
WA418ZREC*	17700/18000	360	208/230	1	11.8	17.90	23.60	128.00
WA425ZREC*	24700/25000	523	208/230	1	10.3	18.60	26.50	165.00
WA428ZRB*	27500/28000	523	208/230	1	9.0	18.60	26.50	156.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


WAU38YREX

U-SHAPE "ULTRA QUIET" AC WINDOW UNITS

U-Shape "Ultra Quiet" AC Window Units

- SMART CONTOL – WiFi compatible and voice activation.
- ULTRA QUIET – Up to 9 times quieter than standard window units.
- REMOTE CONTROL – Easily control the unit at a distance with the provided remote control or through the Sea Breeze+ app.
- HIGH EFFICIENCY – Up to 35% more efficient than standard units.
- CAPACITIES – Available with cooling capacities of 8,000, 10,000 and 12,000 Btu/h.
- WARRANTY – 1 Year

Sea Breeze+

				Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	Voltage	Phase	H	W	Ship Wgt (Lbs.)
WAU38YREX	8000	115	1	13.46	19.17	51.00
WAU310YREX	10000	115	1	13.46	19.17	68.00
WAU312YREX	12000	115	1	13.46	19.17	75.00

PORTABLE, COMMERCIAL


6CC10BEA2AA00

AIR-COOLED PORTABLE AIR CONDITIONER EQUIPMENT

Standard Features

- Spot Cool/Room Cool Thermostat Settings
- Internally Insulated with Fiberglass Insulation
- Thermostatic Control with Multi-Speed Fan
- Separate Direct Drive Fan Motors
- Optional Directional Nozzle (1)
- Self-Diagnostic System
- Off-Timer
- Washable Filters
- Humidity Control Function
- Includes Built-in Condensate Pump
- Auto/Manual Fan Speed Option
- R-410A Refrigerant

Options Accessories

- Portable Kit with Wheels and Nozzle
- Server Rack Mounting Kit
- Ceiling Hanging Kit
- Stacking Kit
- 6" Exhaust Flange

KOLDWAVE

						Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	CFM	Voltage	Phase	Amps	H	W	Ship Wgt (Lbs.)
6CC10BEA2AA00	10000	320	115	1	10	20.00	17.20	128.00


6HK16BEH0

AIR-COOLED PORTABLE AIR CONDITIONER EQUIPMENT, SPOT/ROOM COOLING, HEAT PUMP

Standard Features

- Spot Cool/Room Cool Thermostat Settings
- Internally Insulated with Fiberglass Insulation
- Thermostatic Control with Multi-Speed Fan
- Directional Nozzles (2)
- Heavy-Duty Twin Wheel Casters for Portability
- Auto Fan Speed Option
- Self-Diagnostic System
- Off-Timer
- Washable Filters
- R-410A Refrigerant

Options Accessories

- Easy Install Condensate Pump Kit with Overflow Protection
- Remote Controller with 26' Line
- 16' Temperature Sensor Line
- Condenser Discharge Kit
- Condenser Return Air Plenum

KOLDWAVE

							Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	CFM	Voltage	Phase	Amps	H	W	Ship Wgt (Lbs.)
6HK16BEH0	16000	18500	890	115	1	16	49.00	24.00	251.00

PORTABLE, COMMERCIAL


5KK30BGA2AA00

AIR-COOLED PORTABLE AIR CONDITIONER EQUIPMENT, SPOT/ROOM COOLING, COMPACT

Standard Features

- Spot Cool/Room Cool Thermostat Settings
- Internally Insulated with Fiberglass Insulation
- Thermostatic Control with Multi-Speed Fan
- Heavy-Duty Twin Wheel Casters for Portability
- Self-Diagnostic System
- Off-Timer
- Washable Filters
- R-410A Refrigerant

Options Accessories

- Easy Install Condensate Pump Kit with Overflow Protection
- Remote Controller with 26' Line
- 16' Temperature Sensor Line
- Condenser Discharge Kit
- Condenser Return Air Plenum

KOLDWAVE

						Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	CFM	Voltage	Phase	Amps	H	W	Ship Wgt (Lbs.)
5KK30BGA2AA00	29000	1560	208/230	1	16	47.30	22.00	238.00


6KK61BFA0

AIR-COOLED PORTABLE AIR CONDITIONER EQUIPMENT, SPOT/ROOM COOLING, COMPACT

Standard Features

- Spot Cool/Room Cool Thermostat Settings
- Internally Insulated with Fiberglass Insulation
- Separate Direct Drive Fan Motors
- Digital Control Panel
- Condensate Pump with Overflow Protection
- Directional Nozzles (3)
- Heavy-Duty Twin Wheel Casters for Portability
- Washable Filters
- Self-Diagnostic System
- Off-Timer
- 20" Hot Air Exhause Flange
- R-410A Refrigerant
- Hot Gas Bypass (6KK92)
- Power Cord with Arc Fault Protection (6KK61)
- Terminal Electrical Connection (6KK92)

Options Accessories

- Remote Controller with 26' Line
- 16' Temperature Sensor Line
- Condenser Discharge Kit
- Condenser Return Air Plenum

KOLDWAVE

						Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	CFM	Voltage	Phase	Amps	H	W	Ship Wgt (Lbs.)
6KK61BFA0	61000	3600	208/230	1	32	60.00	29.00	694.00
6KK37BBFA0	37000	1660	208/230	1	19.5	54.30	26.00	275.00
6KK92BCA0	92000	4200	460	3	17.2	60.00	29.00	794.00


5WK07BEA1AAHA0

AIR-COOLED PORTABLE AIR CONDITIONER EQUIPMENT, ROOM COOLING/HEAT PUMP

- Sleek Stainless Steel Cabinet
- Internally Insulated with Fiberglass Insulation
- Forward Curve Fan with Direct Drive Motor
- R-410A Refrigerant
- 15 Amp Breaker
- Coaxial Copper Condenser Coil
- Touch Pad Electronic Control
- Condensate Pump
- Rotary Compressor
- Thermostatic Control with Multi-Speed Fan
- Off-Timer
- Quick Connect Water Hose Kit
- Automatic Water Regulating Valve
- 4-Way Adjustable Air Discharge Grilles
- 18" Hose Kit
- Heavy-Duty Casters (5WK18 and 5WK26)
- Washable Filters (5WK14, 5WK18 and 5WK26)

KOLDWAVE

						Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Phase	Amps	H	W	Ship Wgt (Lbs.)
5WK07BEA1AAHA0	6300	7000	115	1	9.2	17.60	22.40	89.00
5WK14BEA1AAH0	10800	12200	115	1	11.6	31.50	25.00	131.00
5WK18BGAA1AAH0	16100	19100	208/230	1	6.6	28.80	36.00	201.00
5WK26BGAA1AAH0	23000	27300	208/230	1	10	28.80	36.00	201.00

SPLIT SYSTEM AIR CONDITIONING


NCPE4243010D

COOLING 3000 SERIES, R410A, 12 SEER

- 12 SEER

NATIONAL COMFORT PRODUCTS HEATING & A/C EQUIPMENT

			Dimensions (In.)			Connection Size (In.)		
Part No.	Tons	Cooling (BTUH)	H	W	D	Suction	Liquid	Ship Wgt (Lbs.)
NCPE4243010D	2	24000	38.88	26.88	18.50	3/4	3/8	180.00
NCPE4303010/D	2 1/2	30000	32.00	24.13	18.50	3/4	3/8	180.00


NCPE4245010

COOLING 5000 SERIES, R410A, UP TO 14 SEER

The 5000 series is an alternative for new construction projects seeking a higher efficient thru-the-wall system. This model achieves efficiencies as high as 14 SEER and has the advantage of the smallest cabinet size of any other brand.

- Heavy-Duty, Water Resistant Cabinet
- Available in 1 1/2 to 2 1/2 tons
- Up to 14 SEER when matched with NCPAH.

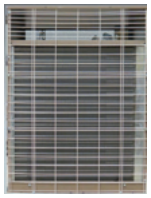
*Please consult the DOE CCMS data base (https://tinyurl.com/ncpcondensers) for a list of rated combinations of indoor and outdoor units. Combinations of outdoor and indoor units that are not rated will require factory testing and listing with DOE. Please consult the factory.

- Units are compatible with NCP Air Handlers or certain other air handlers with ECM motors

NATIONAL COMFORT PRODUCTS HEATING & A/C EQUIPMENT

			Dimensions (In.)			Connection Size (In.)		
Part No.	Tons	Cooling (BTUH)	H	W	D	Suction	Liquid	Ship Wgt (Lbs.)
NCPE4245010	2	24200	38.88	26.88	18.50	3/4	3/8	180.00
NCPE4305010	2.5	28400	38.88	26.88	18.50	3/4	3/8	180.00

SPLIT SYSTEM AIR CONDITIONING



NHPA4305019

HEAT PUMP 5000 SERIES, R410A, 12 SEER

- Compatible with NCP Air Handlers or certain other air handlers with ECM motors
- Available in 1.5 and 2.0 Ton Sizes
- Up to 13 SEER, 7.6 HSPF
- Voltage 208/230/1/60

Please consult the DOE compliant database (https://tinyurl.com/ncpheatpumps) for a list of rated combinations of indoor and outdoor units. Combinations of outdoor and indoor units that are not rated will require factory testing and listing with DOE. Please consult the factory.

		Capacity (BTUH)		Connection Size (In.)		Dimensions (In.)			
Part No.	Tons	Cooling	Heating at 47°F	Suction	Liquid	H	W	D	Ship Wgt (Lbs.)
NHPA4305019	2.5	26800	23600	3/4	3/8	38.88	26.88	18.50	180.00



1000LG

LOUVERED GRILL

- Anodized Aluminum
- Pleasing Appearance Will Make Your Building More Attractive
- Protection for Condenser Coil from Weather and Vandalism

Performance and Efficiency Will Not Be Affected

	Dimensions (In.)			
Part No.	H	W	D	Series
1000LG	25.63	26.00	1.23	1000
3000LG	32.00	23.75	1.23	3000
4000LG	23.00	29.50	1.23	4000



1000WSD12

WALL SLEEVE

Use for new construction applications.

	Dimensions (In.)			Rough-In (In.)		
Part No.	H	W	D	H	W	Series
1000WSD12	3.00	13.00	34.00	30 1/8	27 3/8	1000
3000WSD12	3.00	13.00	12.38	33 1/2	25 3/8	3000
4000WSD12	3.00	13.00	12.44	24 1/2	31 1/8	4000

HIGH STATIC PRESSURE SYSTEM

THE UNICO SYSTEM

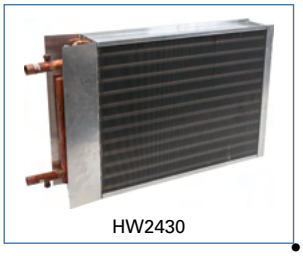
The Unico System for modular air conditioning fan/coil units uses a conventional outdoor condensing unit or heat pump in conjunction with a specialty designed indoor evaporator fan/coil unit, which distributes air through a high static pressure system of small ducts and plenums. Supply ducts to individual rooms are only 2" inside diameter. The Unico System fits where other conventional cooling and heating systems can't—with little or no remodeling required! The modular air handlers and coils can be installed easily into attics, ceilings, crawlspaces and closets. The flexible mini-ducts can be routed through existing ceiling, floor and wall cavities, eliminating the need for unsightly and noisy metal ductwork. Cumbersome metal ducts are eliminated. The modules can be arranged in a horizontal, upflow, or downflow configuration. You'll feel the Unico System's cool comfort, but you'll hardly hear it. The last 36" section of duct has flexible, sound absorbing tubing that provides quiet air flow from each individual outlet. The central return air grille also connects to sound absorbing duct to maintain quiet operation. The Unico System works on the principle of aspiration. Cool streams of high velocity air enter a room, creating gentle circulation without drafts. The Unico System removes up to 30% more moisture than conventional central air conditioning systems. That means more comfort for you, even at higher thermostat settings.



M2430BL1EC2

BLOWER/MODULE

				Dimensions (In.)			
Part No.	Use with	Voltage	CFM	H	W	D	Ship Wgt (Lbs.)
M2430BL1EC2*	Blower	208/230	750	17.50	25.00	13.75	62.00
M3036BL2ST2*	Blower	208/230	900	17.50	30.00	13.75	73.00
M3642BL1EC2*	Blower	208/230	1100	17.50	38.00	13.75	74.00
M4860BL1EC2*	Blower	208/230	1300	17.50	38.00	13.75	74.00



HW2430

HEATING SLEEVE, MODULE

Match with appropriate blower module for heating only applications or to improve cooling air flow and provide for future heat capability (sleeve only-add appropriate coil).

- Note unit width for match

		Dimensions (In.)			
Part No.	Heating (BTUH)	H	W	D	Ship Wgt (Lbs.)
HW2430*	73800	17.00	8.00	33.00	27.34



WON0502B

ELECTRIC HEAT COIL

Ships with a 10" round adapter.

		Dimensions (In.)			
Part No.	kW Rating	H	W	D	Ship Wgt (Lbs.)
WON0502B*	5.0	29.00	20.00	16.00	22.00
WON0752B*	7.5	29.00	20.00	16.00	29.00
WON1002C*	10.0	29.00	20.00	16.00	28.00
WON1502B*	15.0	29.00	20.00	16.00	36.00
WON2002B*	20.0	29.00	20.00	16.00	40.00

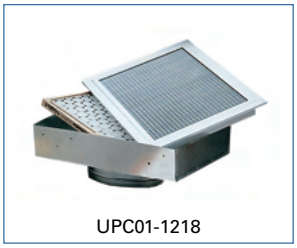


UPC94

SECONDARY DRAIN PAN

For protection against condensate overflow.

			Dimensions (In.)		
Part No.	Use with	Nb. of Modules	H	W	D
UPC94*	1218	1	1.50	24.00	42.00
UPC20B*	2430	2	2.00	32.00	29.00
UPC20C*	2430	3	2.00	44.00	29.00
UPC24B*	3642	2	2.00	44.00	42.00
UPC24C*	3642/4860	3	2.00	44.00	42.00
UPC24D*	4860	3	2.00	44.00	42.00



UPC01-1218

RETURN GRILLE/FILTER

Includes throwaway filter, 2 duct bands and clips.
Note: Unico supplies a return duct system, but field supplied systems are acceptable as long as pressure drop including filter does not exceed .15" W.G.

Part No.	Duct
UPC01-1218*	12
UPC01-2430*	14
UPC01-3642*	18
UPC01-4860*	20

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HIGH STATIC PRESSURE SYSTEM



UPC04-1218

RETURN AIR DUCT

- 10 Ft long

Part No.	Use with	Insulation Value	Duct
UPC04-1218*	1218	R4.2	12
UPC04-2430*	2430	R4.2	14
UPC04-3642*	3642	R4.2	18
UPC04-4860*	4860	R4.2	20
UPC04R61218*	1218	R6.0	12
UPC04R62430*	2430	R6.0	14
UPC04R63642*	3642	R6.0	18
UPC04R64860*	4860	R6.0	20



UPC104-1218

RETURN AIR ADAPTER, HEATING MODULE

- Mates directly to heating module
- No additional fabrication
- Use for horizontal or vertical installations
- Height 17.5 in.

Part No.	Use with	Duct
UPC104-1218*	1218	12
UPC104-2430*	2430	14
UPC104-3642*	3642	18
UPC104-4860*	4860	20



UPC59-2430

RETURN AIR ADAPTER, COOLING MODULE

- Includes insulation wrap shipped loose

Part No.	Use with	Duct
UPC59-2430*	2430	14
UPC59-3642*	3642	18
UPC59-4860*	4860	20



UPC611218

SUPPLY AIR PLENUM ADAPTER

- 1" insulation blanket provided
- Transitions blower module to indicated round duct

Part No.	Duct Diameter (In.)	Use with
UPC611218*	7	1218
UPC612430*	7	2430
UPC613642*	9	3642
UPC614860*	10	4860

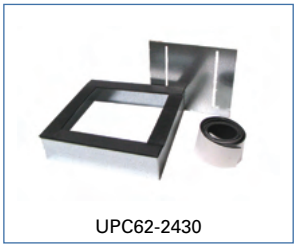


UPC12085S64

SUPPLY DUCT

1" rigid fiberglass.

Part No.	Description
UPC12085S64*	Supply duct square
UPC12095S64*	Supply duct square
UPC12085S68F*	Supply duct flat



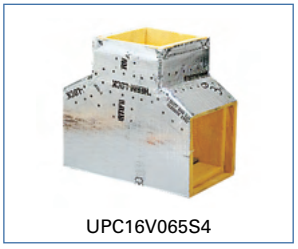
UPC62-2430

PLENUM ADAPTER, SQUARE

Includes:

- Restrictor plate (except UPC62-1218)
- Insulation tape
- Mounting screws

Part No.	Duct Size (In.)	Used on
UPC62-2430*	6.5" x 6.5"	2430
UPC62-3642*	8.5" x 8.5"	3642
UPC62-4860*	9.5" x 9.5"	4860



UPC16V065S4

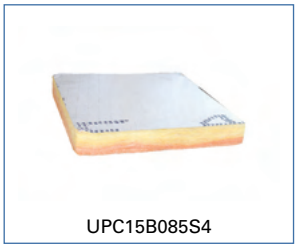
FULL FLOW TEE

1" fiberglass.

Part No.	Description
UPC16V065S4*	Square, 6.5" x 6.5", with Turning Vane
UPC16V085S4*	Square, 8.5" x 8.5", with Turning Vane
UPC16V095S4*	Square, 9.5" x 9.5", with Turning Vane

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

END CAP


UPC15B085S4

Part No.	Description
UPC15B085S4*	Square, 8.5" x 8.5"

ELBOW

1" fiberglass.


UPC18065S4

Part No.	Description
UPC18065S4*	Square, 6.5" x 6.5"
UPC18095S4*	Square, 9.5" x 9.5"

ROUND OUTLET, TWIST-FIT SYSTEM


UPC56TB1

Part No.	Description
UPC56TB1*	White 2" TFS Round Outlet
UPC56TB6*	White 2" TFS Round Outlet, 6 pack

OUTLET KIT, 2 1/2"


UPC280M1

Kits include list below plus specific itemized takeoffs. (Installation kit quantities in parentheses)

- Supply outlet - 1 (5)
- Scrim core clamp - 2 (10)
- Supply tube clamp - 0 (10)
- Toggle and screw - 0 (10)
- Balancing orifice kit - 1 (1)
- Winter shutoff - 1 (5)
- Supply duct coupling - 1 (5)

Part No.	Description	Includes
UPC280M1*	Single Outlet Kit, 2.5"	12' R-3.3 Attenuator Tube
UPC280MR61*	Single Outlet Kit, 2.5"	12' R-6.0 Attenuator Tube
UPC289M5*	Installation Kit, Round Metal Plenum, 2.5"	Round Metal Plenum Takeoffs
UPC289MF5*	Installation Kit, Square Metal Plenum, 2.5"	Square Metal Plenum Takeoffs

OUTLET KIT, SHORT


UPC855

Kit includes:

- 5-UPC26C 12" Sound Attenueator tude
- 5-UPC56B Supply Outlet
- 5-UPC42 Winter Shutoff
- 10-UPC51 Toggle and Screw

Part No.	Includes
UPC855*	5-UPC28 Metal Takeoffs

EXPANSION VALVE, R410A


A00805013

		Dimensions (In.)			
Part No.	**Use with**	**H**	**W**	**L**	**Ship Wgt (Lbs.)**
A00805013*	2 Ton, A/C	3.00	4.00	6.00	2.00
A00805014*	3 to 3 1/2 Ton, A/C	3.00	5.00	6.00	2.00
A00808013*	2 Ton, Heat Pump	3.00	5.50	4.00	2.00
A00808015*	4 Ton, Heat Pump	7.00	11.00	14.40	1.40

SUPPLY TERMINATOR


UPC57M

Part No.	Description
UPC57M*	Maple Face 0° Outlet, 2.0"
UPC57PI*	Pine Face 0° Outlet, 2.0"
UPC58115*[1]	15° Angle Outlet, 2.0"
UPC58125*[1]	25° Angle Outlet, 2.0"
UPC256*	Plastic Outlet, 2.5"
UPC257RO*	Red Oak Face Outlet, 2.5"

[1] Includes toggles ands screws

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HIGH STATIC PRESSURE SYSTEM

SLOTTED OUTLET


UPC66

Part No.	Description
UPC66*	Slotted Outlet
UPC68T	2" Supply Outlet Slotted Twist Fit

OUTLET ACCESSORIES


UPC455

Part No.	Description
UPC455*	Outlet Deflector, 2", each
UPC51*	Outlet Toggle and Screw pkg. 10
UPC8820*	Outlet Screen, 2", pkg. 20
UPC88-20EA*	Outlet Screen, 2", each.
UPC28820*	Outlet Screen, White, 2.5", pkg. 20
UPC28820BLK*	Outlet Screen, Black, 2.5", pkg. 20
UPC2455*	Outlet Deflector, 2.5", pkg 5

TOOL


UPC54

		Dimensions (In.)		
Part No.	Description	H	W	L
UPC54*	Clamp Pliers	1.00	2.00	9.00

MILD WEATHER KIT


UPC65

Pressure sensor for heat pumps operating in mild weather.

Part No.	Description
UPC65*	Mild Weather Kit, R22 Heat Pump
UPC65X*	Mild Weather Kit, R410A Heat Pump

MOUNTING RAILS


UPC-95

- 12 ga. steel

Part No.	Description
UPC-95*	Mounting Rails for M1218

PLASTER FRAME KIT


UPC865

Part No.	Includes
UPC865*	Plaster Frame Kit, pkg. 5

SOUND ATTENUATOR WITH TWIST-FIT SYSTEM


UPC26TC1

- Sound Attenuator tubing, sold in 12' lengths
- Can be cut to length as needed
- The inner core layer of the tubing is either: Two-ply corrugated aluminum OR spun-bound nylon
- The outer jacket is made of a two-ply reinforced reflective mylar; providing a vapor seal to prevent leakage and moisture migration and increases the insulation factor by reducing the radiant heat transfer. A fiberglass blanket insulation then fills the void between the jacket and the core
- The R3.3 and R4 duct have one insulation layer and vapor barrier
- The R6 and R8 have two layers of insulation and a double vapor seal
- The Twist-Fit System provides the tightest connections and fastest installation.

Part No.	ID (In.)	R-Factor	Pkg Qty
UPC26TC1*	2	R - 3.3	1
UPC26TC6*	2	R - 3.3	6
UPC26TCR41*	2	R - 4.2	1
UPC26TCR46*	2	R - 4.2	6
UPC26TCR61*	2	R - 6.0	1
UPC26TCR66*	2	R - 6.0	6
UPC26TCR81*	2	R - 8.0	1
UPC26TCR86*	2	R - 8.0	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


UPC2265

SOUND ATTENUATOR

- Tough aluminized mylar outer wrap
- Spun-bonded nylon and helical wire core
- Fully insulated
- 12' length
- Certified as an air duct per UL181

Part No.	ID (In.)	R-Factor	Pkg Qty
UPC2265*	2.5	R - 3.2	5
UPC226R45*	2.5	R - 4.2	5
UPC226R65*	2.5	R - 6.0	5
UPC226R85*	2.5	R - 8.0	5


UPC25T1

SUPPLY TUBING WITH TWIST-FIT SYSTEM

- Aluminum Core tubing, sold in 25' lengths
- Can be cut to length as needed
- The inner core layer of the tubing is either: Two-ply corrugated aluminum OR spun-bound nylon
- The outer jacket is made of a two-ply reinforced reflective mylar; providing a vapor seal to prevent leakage and moisture migration and increases the insulation factor by reducing the radiant heat transfer. A fiberglass blanket insulation then fills the void between the jacket and the core
- The R3.3 and R4 duct have one insulation layer and vapor barrier
- The R6 and R8 have two layers of insulation and a double vapor seal
- The Twist-Fit System provides the tightest connections and fastest installation.

Part No.	ID (In.)	R-Factor	Pkg Qty
UPC25T1*	2	R - 3.3	1
UPC25T4*	2	R - 3.3	4
UPC25TR41*	2	R - 4.2	1
UPC25TR44*	2	R - 4.2	4
UPC25TR61*	2	R - 6.0	1
UPC25TR64*	2	R - 6.0	4
UPC25TR81*	2	R - 8.0	1
UPC25TR84*	2	R - 8.0	4


UPC2251

SUPPLY TUBING

- Tough aluminized mylar outer wrap
- Two-ply aluminum core
- 25' length
- Certified as an air duct per UL181

Part No.	ID (In.)	R-Factor	Pkg Qty
UPC2251*	2.5	R - 3.2	1
UPC2253*	2.5	R - 3.2	3
UPC225R43*	2.5	R - 4.2	3
UPC225R83*	2.5	R - 8.0	3


UPC28T1

PLENUM TAKE OFF, TWIST-FIT SYSTEM

- 2" plastic saddle tap Twist-Fit connector to attach Unico flex duct to metal duct
- The Twist-Fit System provides the tightest connections and fastest installation.

Part No.	Description	ID (In.)	Pkg Qty
UPC28T1*	Round Metal Duct	2.0	1
UPC28T6*	Round Metal Duct	2.0	6
UPC28TF1*	Flat Metal Duct	2.0	1
UPC28TF6*	Flat Metal Duct	2.0	6



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HIGH STATIC PRESSURE SYSTEM


UPC23B

PLENUM TAKE OFF

- Provides positive connection to ductwork
- UPC23 for round or square duct

Part No.	Description	ID (In.)
UPC23B*	For 1" Fiberglass	2.0
UPC228*	For Round Metal, Includes Gasket	2.5
UPC228F*	For Flat Metal, Includes Gasket	2.5


UPC5250

TUBING CLAMP

Part No.	Description	ID (In.)	Pkg Qty
UPC5250*	Supply Tubing Clamp, 2", pkg 50	2.0	50
UPC52-50EA*	Supply Tubing Clamp, 2", each	2.0	1
UPC5350*	Sound Atten. Tube Clamp, 2", pkg 50	2.0	50
UPC53-50EA*	Sound Atten. Tube Clamp, 2", ea	2.0	1
UPC25250*	Supply Tubing Clamp, 2.5", pkg 50	2.5	50
UPC25350*	Sound Atten. Tube Clamp, 2.5", pkg 50	2.5	50


UPC3515

BALANCING ORIFICE KIT

Single kit quantities in parentheses
Takeoff kit includes:
15 (3) UPC30 15% reduction cap
5 (1) UPC31 35% reduction disk
5 (1) UPC32 50% reduction disk
Outlet kit includes:
5 (1) 15% reduction (1 7/16" hole)
5 (1) 35% reduction (1 1/8" hole)
5 (1) 50% reduction (15/16" hole)
15 (3) UPC42 winter shutoff

Part No.	Description	ID (In.)
UPC3515*	Takeoff Orifice Kit	2.0
UPC35-15EA*	Takeoff Orifice Kit (Single)	2.0
UPC3615*	Outlet Orifice Kit	2.0
UPC36-15EA*	Outlet Orifice Kit (Single)	2.0


UPC38TC1

COUPLING KIT, WITH TWIST-FIT SYSTEM

- Pre-installed on tubing
- Contains 2 connectors per coupling to connect tubing together
- Used at the take-off and faceplate
- Comes in white or black, depending on application
- The Twist-Fit System provides the tightest connections and fastest installation.

Part No.	Description	ID (In.)	Pkg Qty
UPC38TC1*	Coupling Kit, TFS, 2" duct, 2 connectors (1 white, 1 black)	2	1
UPC38TC6*	Coupling Kit, TFS, 2" duct, 12 connectors (6 white, 6 black), makes 6 couplings	2	6


UPC23810

SUPPLY DUCT COUPLING

Includes tubing clamps and tape rings.

Part No.	Description	ID (In.)
UPC23810*	Supply Connector Coupling, 2.5", pkg 10	2.5


UPC42

WINTER SHUTOFF

Part No.	Description
UPC42*	Winter Supply Shutoff, 2", pkg 20
UPC24220*	Winter Supply Shutoff, 2.5", pkg 20

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF CONTAINED AIR CONDITIONING


SL0963VTCFLTPDA

VERTICAL, WATER SOURCE HEAT PUMP, GREENSOURCE I SERIES, SL MODEL

The SL Model geothermal heat pump is equipped with two refrigeration circuits that are designed and controlled to ensure peak performance and comfort. Homes, apartment buildings, office buildings, hotel/motels, schools and assisted living complexes are typical applications where these units are used.

- Belt Drive Motor is standard
- Designed using the optimum combination of compressor, water and copper
- aluminum-fin evaporator coils with TXV to provide peak performance.
- All SL Models feature optional coated evaporator coils and stainless steel drain pans as standard equipment which helps to ensure long life and durability.
- Reciprocating Compressor (072 and 096 size units)
- Scroll compressor (120 size unit only)
- Capacities rated 77°F cooling, 32°F heating
- LE: Left return, end discharge
  RE: Right return, end discharge

BOSCH Invented for life

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orientation	Heat Exchangers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
SL0963VTCFLTPDA*	7.5	104000	73600	208-230	LE	Copper	3000	29.5/31.0	42.00	32.00	62.00	815.00
SL1203VTCFLTPDA*	10	127000	100000	208-230	LE	Copper	4000	41.3/44.3	42.00	32.00	62.00	770.00
SL0964VTCFLTPDA*	7.5	104000	73600	460	LE	Copper	3000	14.6/15.2	42.00	32.00	62.00	815.00
SL1204VTCFLTPDA*	10	127000	100000	460	LE	Copper	4000	20.6/21.9	42.00	32.00	62.00	777.00
SL0963VTCFRTPDA*	7.5	104000	73600	208-230	RE	Copper	3000	29.5/31.0	42.00	32.00	62.00	815.00
SL1203VTCFRTPDA*	10	127000	100000	208-230	RE	Copper	4000	41.3/44.3	42.00	32.00	62.00	770.00
SL0964VTCFRTPDA*	7.5	104000	73600	460	RE	Copper	3000	14.6/15.2	42.00	32.00	62.00	815.00
SL1204VTCFRTPDA*	10	127000	100000	460	RE	Copper	4000	20.6/21.9	42.00	32.00	62.00	770.00
SL0723VTCFFTBDA*	6	72000	92000	208-230	FR	Copper	600	36.3	42.00	32.00	62.00	660.00
SL0963VTCFFTBDA*	8	104000	73600	208-230	FR	Copper	3000	29.5/31.0	42.00	32.00	62.00	815.00
SL0964VTCFFTPDA*	7.5	104000	73600	460	FR	Copper	3000	14.6/15.2	42.00	32.00	62.00	815.00
SL0963VTCFBTBDA*	8	104000	73600	208-230	BK	Copper	3000	29.5/31.0	42.00	32.00	62.00	815.00


SV0071VTCFLTPDCXAT

VERTICAL, WATER SOURCE HEAT PUMP, GREENSOURCE I SERIES, SV MODEL

The SV Model is a cost-effective single stage water source heat pump designed for commercial retrofit and new construction applications.

- PSC Motor is standard
- Designed using the optimum combination of compressor, water and copper aluminum-fin evaporator coils with capillary tubes to provide peak performance.
- Capacities rated 77°F cooling, 32°F heating
- LT: Left return, top supply
- RT: Right return, top supply

BOSCH Invented for life

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orientation	Heat Exchangers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
SV0071VTCFLTPDCXAT*	1/2	6800	4900	208-230	LT	Copper	300	3.1	19.00	19.00	24.25	126.00
SV0091VTCFLTPDDXAT*	3/4	7000	6900	208-230	LT	Copper	330	4.3	19.00	19.00	24.25	130.00
SV0121VTCFLTPDEXAT	1	11800	8700	208-230	LT	Copper	375	5.6	19.00	19.00	24.25	132.00
SV0181VTCFLTPDDXAT*	1 1/2	19200	14300	208-230	LT	Copper	600	9.3	21.50	21.50	32.25	201.00
SV0241VTCFLTPDDXAT*	2	25400	18100	208-230	LT	Copper	800	16.9	21.50	21.50	32.25	205.00
SV0301VTCFLTPDDXAT*	2 1/2	29500	21500	208-230	LT	Copper	950	16	21.50	21.50	39.25	217.00
SV0361VTCFLTPDDXAT*	3	38500	27100	208-230	LT	Copper	1200	19.3	21.50	26.00	44.25	255.00
SV0421VTCFLTPDDXAT*	3 1/2	41200	30000	208-230	LT	Copper	1380	20.9	26.00	21.50	44.25	265.00
SV0481VTCFLTPDDXAT*	4	48400	39300	208-230	LT	Copper	1640	24.5	24.00	32.50	45.25	312.00
SV0601VTCFLTPDDXAT	5	61600	53400	208-230	LT	Copper	1900	32.9	24.00	32.50	45.25	331.00
SV0701VTCFLTPDDXAT*	6	66400	50800	208-230	LT	Copper	2000	35.4	33.25	26.00	58.25	360.00
SV0071VTCFRTPDCXAT*	1/2	6800	4900	208-230	RT	Copper	300	3.1	19.00	19.00	24.25	126.00
SV0091VTCFRTPDDXAT*	3/4	7000	6900	208-230	RT	Copper	330	4.3	19.00	19.00	24.25	130.00

Continued on next page

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SELF CONTAINED AIR CONDITIONING

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Ex-changers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
SV0121VTCFRTPDEXAT	1	11800	8700	208-230	RT	Copper	375	5.6	19.00	19.00	24.25	132.00
SV0181VTCFRTPDDXAT*	1 1/2	19200	14300	208-230	RT	Copper	600	9.3	21.50	21.55	32.25	201.00
SV0151VTCFRTPDDXAT	1 1/4	14200	11300	208-230	RT	Copper	500	7	21.50	21.50	32.25	151.00
SV0151VTCFRTPDCXAT*	1 1/4	14200	11300	208-230	RT	Copper	500	7	21.50	21.50	32.25	151.00
SV0241VTCFRTPDDXAT*	2	25400	18100	208-230	RT	Copper	800	16.9	21.50	21.50	32.25	205.00
SV0301VTCFRTPDDXAT*	2 1/2	29500	21500	208-230	RT	Copper	950	16	21.50	21.50	39.25	217.00
SV0361VTCFRTPDDXAT*	3	38500	27100	208-230	RT	Copper	1200	19.3	21.50	26.00	44.25	255.00
SV0421VTCFRTPDDXAT*	3 1/2	41200	30000	208-230	RT	Copper	1380	20.9	26.00	21.50	44.25	265.00
SV0481VTCFRTPDDXAT*	4	48400	39300	208-230	RT	Copper	1640	24.5	24.00	32.50	45.25	312.00
SV0601VTCFRTPDDXAT	5	61600	53400	208-230	RT	Copper	1900	32.9	24.00	32.50	45.25	331.00
SV0701VTCFRTPDDXAT*	6	66400	50800	208-230	RT	Copper	2000	35.4	33.25	26.00	25.25	360.00
SV0071VTNFLTPDCXAT*	1/2	6800	4900	208-230	LT	Cupro-Nickel	300	3.1	19.00	19.00	24.25	126.00
SV0091VTNFLTPDDXAT*	3/4	7000	6900	208-230	LT	Cupro-Nickel	330	4.3	19.00	19.00	24.25	130.00
SV0181VTNFLTPDDXAT*	1 1/2	19200	14300	208-230	LT	Cupro-Nickel	600	9.3	21.50	21.55	32.25	201.00
SV0151VTNFLTPDCXAT*	1 1/4	11800	8700	208-230	LT	Cupro-Nickel	500	7	21.50	21.50	32.25	151.00
SV0241VTNFLTPDDXAT*	2	25400	18100	208-230	LT	Cupro-Nickel	800	16.9	21.50	21.50	32.25	205.00
SV0301VTNFLTPDDXAT*	2 1/2	29500	21500	208-230	LT	Cupro-Nickel	950	16	21.50	21.50	39.25	217.00
SV0361VTNFLTPDDXAT*	3	38500	27100	208-230	LT	Cupro-Nickel	1200	19.3	21.50	26.00	44.25	255.00
SV0421VTNFLTPDDXAT*	3 1/2	41200	30000	208-230	LT	Cupro-Nickel	1380	20.9	26.00	21.50	44.25	265.00
SV0481VTNFLTPDDXAT*	4	48400	39300	208-230	LT	Cupro-Nickel	1640	24.5	24.00	32.50	45.25	312.00
SV0601VTNFLTPDDXAT*	5	61600	53400	208-230	LT	Cupro-Nickel	1900	32.9	24.00	32.50	45.25	331.00
SV0071VTNFRTPDCXAT*	1/2	6800	4900	208-230	RT	Cupro-Nickel	300	3.1	19.00	19.00	11.50	126.00
SV0091VTNFRTPDDXAT*	3/4	7000	6900	208-230	RT	Cupro-Nickel	330	4.3	19.00	19.00	24.25	130.00
SV0181VTNFRTPDDXAT*	1 1/2	19200	14300	208-230	RT	Cupro-Nickel	600	9.3	21.50	21.55	32.25	201.00
SV0151VTNFRTPDCXAT*	1 1/4	14200	11300	208-230	RT	Cupro-Nickel	500	7	21.50	21.50	32.25	151.00
SV0241VTNFRTPDDXAT*	2	25400	18100	208-230	RT	Cupro-Nickel	800	16.9	21.50	21.50	39.25	205.00
SV0301VTNFRTPDDXAT*	2 1/2	29500	21500	208-230	RT	Cupro-Nickel	950	16	21.50	21.50	39.25	217.00
SV0361VTNFRTPDDXAT*	3	38500	27100	208-230	RT	Cupro-Nickel	1200	19.3	21.50	26.00	44.25	255.00
SV0421VTNFRTPDDXAT*	3 1/2	41200	30000	208-230	RT	Cupro-Nickel	1380	20.9	26.00	21.50	44.25	265.00
SV0481VTNFRTPDDXAT*	4	48400	39300	208-230	RT	Cupro-Nickel	1640	24.5	24.00	32.50	45.25	312.00
SV0601VTNFRTPDDXAT*	5	61600	53400	208-230	RT	Cupro-Nickel	1900	32.9	24.00	32.50	45.25	331.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


LV0302VTCFLTPDDXAT

VERTICAL, WATER SOURCE HEAT PUMP, LV MODEL

- Capacities rated 77°F cooling, 32°F heating
- LT: Left return, top supply
- RT: Right return, top supply

BOSCH Invented for life

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Ex-changers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
LV0302VTCFLTPDDXAT*	2.5	29500	21500	277/1	LT	Copper	950	13.6	21.50	21.50	39.25	217.00
LV0362VTCFLTPDDXAT*	3	38000	27100	277/1	LT	Copper	1200	13.6	21.50	26.00	39.25	255.00
LV0302VTCFRTPDDXAT*	2.5	29500	21500	277/1	RT	Copper	950	13.6	21.50	21.50	39.25	217.00
LV0483VTCFLTPDDXAG	4	48800	35400	208-230	LT	Copper	1600	18.2	24.00	32.50	45.25	299.00
LV0603VTCFLTTDDXAG	5	48800	48800	208-230	LT	Copper	1900	25	24.00	32.50	45.25	318.00
LV0483VTCFRTPDDXAG	4	48800	48800	208-230	RT	Copper	1600	18.2	24.00	32.50	45.25	299.00
LV0603VTCFRTTDDXAG	5	60100	46900	208-230	RT	Copper	1900	25	24.00	32.50	45.25	318.00
LV0604VTCFLTTDDXAG	5	60100	46900	460	LT	Copper	1900	10.6	24.00	32.50	45.25	318.00
LV0604VTCFRTTDDXAG	5	60100	46900	460	RT	Copper	1900	12.6	24.00	32.50	45.25	318.00


SV0091HZCFLEPDDXAT

HORIZONTAL, WATER SOURCE HEAT PUMP, GREENSOURCE I SERIES, SV MODEL

The SV Model is a cost-effective single stage water source heat pump designed for commercial retrofit and new construction applications.

- PSC Motor is standard
- Designed using the optimum combination of compressor, water and copper aluminum-fin evaporator coils with capillary tubes to provide peak performance.
- Capacities rated 77°F cooling, 32°F heating
- LE: Left return, end discharge
- RE: Right return, end discharge

BOSCH Invented for life

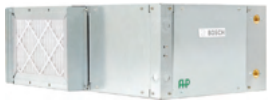
		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Ex-changers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
SV0091HZCFLEPDDXAT	0.75	8200	10700	208-230	LE	Copper	300	5.2	19.00	43.00	11.50	132.00
SV0071HZCFLEPDCXAT*	1/2	6800	4900	208-230	LE	Copper	300	3.1	19.00	33.00	11.50	126.00
SV0091HZCFLEPDCXAT*	3/4	8700	6900	208-230	LE	Copper	330	4.3	19.00	33.00	11.50	130.00
SV0121HZCFLEPDDXAT	1	11800	8700	208-230	LE	Copper	375	5.8	19.00	33.00	11.50	134.00
SV0151HZCFLEPDCXAT*	1 1/4	14200	11300	208-230	LE	Copper	500	7	22.00	43.00	17.00	132.00
SV0181HZCFLEPDDXAT*	1 1/2	19200	14300	208-230	LE	Copper	600	9.3	22.00	43.00	17.00	201.00
SV0241HZCFLEPDDXAT*	2	25400	18100	208-230	LE	Copper	800	16.9	22.00	43.00	17.00	205.00
SV0301HZCFLEPDDXAT*	2 1/2	29500	21500	208-230	LE	Copper	950	16	22.00	43.00	17.00	217.00
SV0361HZCFLEPDDXAT*	3	38500	27100	208-230	LE	Copper	1200	19.3	22.00	54.50	19.00	255.00
SV0421HZCFLEPDDXAT*	3 1/2	41200	30000	208-230	LE	Copper	1380	20.9	22.00	54.50	19.00	265.00
SV0481HZCFLEPDDXAT*	4	48400	39300	208-230	LE	Copper	1640	24.5	22.00	54.50	19.00	312.00
SV0601HZCFLEPDDXAT*	5	61600	53400	208-230	LE	Copper	1900	32.9	25.00	54.50	21.00	331.00
SV0701HZCFLEPDDXAT*	6	66400	50800	208-230	LE	Copper	2000	35.4	25.00	65.00	21.00	360.00
SV0091HZCFREPDDXAT	0.75	8200	10700	208-230	RE	Copper	300	5.2	19.00	43.00	11.50	132.00
SV0071HZCFREPDCXAT*	1/2	6800	4900	208-230	RE	Copper	300	3.1	19.00	33.00	11.50	126.00
SV0121HZCFREPDDXAT	1	11800	8700	208-230	RE	Copper	375	5.8	19.00	33.00	11.50	134.00
SV0151HZCFREPDCXAT*	1 1/4	14200	11300	208-230	RE	Copper	500	7	22.00	43.00	17.00	151.00
SV0181HZCFREPDDXAT*	1 1/2	19200	14300	208-230	RE	Copper	600	9.3	22.00	43.00	17.00	201.00
SV0241HZCFREPDDXAT*	2	25400	18100	208-230	RE	Copper	800	16.9	22.00	43.00	17.00	205.00
SV0301HZCFREPDDXAT*	2 1/2	29500	21500	208-230	RE	Copper	950	16	22.00	43.00	17.00	217.00
SV0361HZCFREPDDXAT*	3	38500	27100	208-230	RE	Copper	1200	19.3	22.00	54.50	19.00	255.00
SV0421HZCFREPDDXAT*	3 1/2	41200	30000	208-230	RE	Copper	1380	20.9	22.00	54.50	19.00	265.00
SV0481HZCFREPDDXAT*	4	48400	39300	208-230	RE	Copper	1640	24.5	22.00	54.50	19.00	312.00

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SELF CONTAINED AIR CONDITIONING

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Ex-changers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
SV0601HZCFREPDDXAT*	5	61600	53400	208-230	RE	Copper	1900	32.9	25.00	54.50	21.00	331.00
SV0701HZCFREPDDXAT*	6	66400	50800	208-230	RE	Copper	2000	35.4	25.00	65.00	21.00	360.00
SV0091HZNFLEPDDXAT	0.75	8200	10700	208-230	LE	Cupro-Nickel	300	5.2	19.00	43.00	11.50	132.00
SV0071HZNFLEPDCXAT*	1/2	6800	4900	208-230	LE	Cupro-Nickel	300	3.1	19.00	33.00	11.50	126.00
SV0091HZNFLEPDCXAT*	3/4	8700	6900	208-230	LE	Cupro-Nickel	330	4.3	19.00	33.00	11.50	130.00
SV0121HZNFLEPDCXAT*	1	11800	8700	208-230	LE	Cupro-Nickel	375	5.8	19.00	33.00	11.50	132.00
SV0151HZNFLEPDCXAT*	1 1/4	14200	11300	208-230	LE	Cupro-Nickel	500	7	22.00	43.00	17.00	151.00
SV0181HZNFLEPDDXAT*	1 1/2	19200	14300	208-230	LE	Cupro-Nickel	600	9.3	22.00	43.00	17.00	201.00
SV0241HZNFLEPDDXAT*	2	25400	18100	208-230	LE	Cupro-Nickel	800	16.9	22.00	43.00	17.00	205.00
SV0301HZNFLEPDDXAT*	2 1/5	29500	21500	208-230	LE	Cupro-Nickel	950	16	22.00	43.00	17.00	217.00
SV0361HZNFLEPDDXAT*	3	38500	27100	208-230	LE	Cupro-Nickel	1200	19.3	22.00	54.50	19.00	255.00
SV0421HZNFLEPDDXAT*	3 1/2	41200	30000	208-230	LE	Cupro-Nickel	1380	20.9	22.00	54.50	19.00	265.00
SV0481HZNFLEPDDXAT*	4	48400	39300	208-230	LE	Cupro-Nickel	1640	24.5	22.00	54.50	19.00	312.00
SV0601HZNFLEPDDXAT*	5	61600	53400	208-230	LE	Cupro-Nickel	1900	32.9	25.00	54.50	21.00	331.00
SV0701HZNFLEPDDXAT*	6	66400	50800	208-230	LE	Cupro-Nickel	2000	35.4	25.00	65.00	21.00	360.00
SV0091HZNFREPDDXAT	0.75	8200	10700	208-230	RE	Cupro-Nickel	300	5.2	19.00	43.00	11.50	132.00
SV0071HZNFREPDCXAT*	1/2	6800	4900	208-230	RE	Cupro-Nickel	300	3.1	19.00	33.00	24.25	126.00
SV0091HZNFREPDCXAT*	3/4	8700	6900	208-230	RE	Cupro-Nickel	330	4.3	19.00	33.00	11.50	130.00
SV0121HZNFREPDCXAT*	1	11800	8700	208-230	RE	Cupro-Nickel	375	5.8	19.00	33.00	11.50	132.00
SV0151HZNFREPDCXAT*	1 1/4	14200	11300	208-230	RE	Cupro-Nickel	500	7	22.00	43.00	17.00	151.00
SV0181HZNFREPDDXAT*	1 1/2	19200	14300	208-230	RE	Cupro-Nickel	600	9.3	22.00	43.00	17.00	201.00
SV0241HZNFREPDDXAT*	2	25400	18100	208-230	RE	Cupro-Nickel	800	16.9	22.00	43.00	17.00	205.00
SV0301HZNFREPDDXAT*	2 1/2	29500	21500	208-230	RE	Cupro-Nickel	950	16	22.00	43.00	17.00	217.00
SV0361HZNFREPDDXAT*	3	38500	27100	208-230	RE	Cupro-Nickel	1200	19.3	22.00	54.50	19.00	255.00
SV0421HZNFREPDDXAT*	3 1/2	41200	30000	208-230	RE	Cupro-Nickel	1380	20.9	22.00	54.50	19.00	265.00
SV0481HZNFREPDDXAT*	4	48400	39300	208-230	RE	Cupro-Nickel	1640	24.5	22.00	54.50	19.00	312.00
SV0601HZNFREPDDXAT*	5	61600	53400	208-230	RE	Cupro-Nickel	1900	32.9	25.00	54.50	21.00	331.00
SV0701HZNFREPDDXAT*	6	66400	50800	208-230	RE	Cupro-Nickel	2000	35.4	25.00	65.00	21.00	360.00



LV0243HZCFLSPDDXAT

HORIZONTAL, WATER SOURCE HEAT PUMP, LV MODEL

- Capacities rated 77°F cooling, 32°F heating
- Include hanging brackets
- Come standard with blower systems that are easily reconfigured on the job site.
- LE: Left return, end discharge
- LS: Left return, straight discharge

RE: Right return, end discharge

BOSCH Invented for life

		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Exchang-ers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
LV0243HZCFLSPDDXAT*	2.5	25400	18100	208-230	LR	Copper	800	8.9	22.00	43.00	18.00	212.00
LV0092HZCFLEPDDXAT	0.75	8700	6900	277	LR	Copper	300	3.6	19.00	33.00	11.50	132.00
LV0092HZCFREPDDXAT	0.75	8700	6900	277	RT	Copper	300	3.6	19.00	33.00	11.50	132.00
LV0092HZNFLEPDDXAT	0.75	8700	6900	277	LR	Cupro-Nickel	300	3.6	19.00	33.00	11.50	132.00
LV0122HZCFLEPDDXAG	1	11800	8700	277	LR	Copper	375	4.8	19.00	33.00	11.50	139.00
LV0182HZCFLEPDDXAG	1 1/2	19200	14300	277	LR	Copper	600	7.5	22.00	43.00	17.00	208.00
LV0152HZCFLEPDDXAG	1.25	14200	11300	277	LR	Copper	500	5.8	22.00	43.00	17.00	158.00
LV0242HZCFLEPDDXAG	2	25400	18100	277	LR	Copper	800	11.3	22.00	43.00	18.00	212.00
LV0302HZCFLEPDDXAG	2.5	29500	21500	277	LR	Copper	950	13.6	22.00	43.00	18.00	244.00
LV0362HZCFLEPDDXAG	3	38000	27100	277	LR	Copper	1200	14.5	22.00	54.50	19.00	270.00
LV0122HZCFREPDCXAG	1	11800	8700	277	RT	Copper	375	4.8	19.00	33.00	11.50	139.00

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		Capacity (BTUH)							Dimensions (In.)			
Part No.	Nominal Tons	Cooling	Heating	Voltage	Orienta-tion	Heat Exchang-ers	CFM	MCA (Amps)	W	D	H	Ship Wgt (Lbs.)
LV0122HZCFREPDDXAG	1	11800	8700	277	RT	Copper	375	4.8	19.00	33.00	11.50	139.00
LV0182HZCFREPDDXAG	1 1/2	19200	14300	277	RT	Copper	600	7.5	22.00	43.00	17.00	208.00
LV0152HZCFREPDDXAG	1.25	14200	11300	277	RT	Copper	500	5.8	22.00	43.00	17.00	158.00
LV0242HZCFREPDDXAG	2	25400	18100	277	RT	Copper	800	11.3	22.00	43.00	18.00	212.00
LV0302HZCFREPDDXAG	2.5	29500	21500	277	RT	Copper	950	13.6	22.00	43.00	18.00	224.00
LV0362HZCFREPDDXAG	3	38000	27100	277	RT	Copper	1200	14.5	22.00	54.50	19.00	270.00
LV0363HZCFLEPDDXAG	3	38000	27100	208-230	LR	Copper	1200	13	22.00	54.50	19.00	270.00
LV0423HZCFLEPDDXAG	3.5	41200	30000	208-230	LR	Copper	1380	14	22.00	54.50	19.00	264.00
LV0483HZCFLEPDDXAG	4	48400	39300	208-230	LR	Copper	1640	17.10	25.00	54.50	21.00	299.00
LV0603HZCFLETDDXAG	5	61900	49200	208-230	LR	Copper	1700	19.5	25.00	54.50	21.00	318.00
LV0363HZCFREPDDXAG	3	38000	27100	208-230	RT	Copper	1200	13	22.00	54.50	19.00	270.00
LV0483HZCFREPDDXAG	4	48400	39300	208-230	RT	Copper	1640	17.10	25.00	54.50	21.00	299.00
LV0603HZCFRETDDXAG	5	61900	49200	208-230	RT	Copper	1700	19.5	25.00	54.50	21.00	318.00
LV0364HZCFLEPDDXAG	3	38000	27100	460	LR	Copper	1200	7.3	22.00	54.50	19.00	270.00
LV0424HZCFLEPDDXAG	3.5	41200	30000	460	LR	Copper	1380	7	22.00	54.50	19.00	264.00
LV0484HZCFLEPDDXAG	4	48400	39300	460	LR	Copper	1640	7.8	25.00	54.50	21.00	299.00
LV0604HZCFLETDBXAG	5	61900	49200	460	LR	Copper	1700	9.80	25.00	54.50	21.00	318.00
LV0604HZCFLETDDXAG	5	61900	49200	460	LR	Copper	1700	9.80	25.00	54.50	21.00	318.00
LV0244HZCFREPDDXAG	2	25400	18100	460	RT	Copper	800	4.4	22.00	43.00	18.00	212.00
LV0364HZCFREPDDXAG	3	38000	27100	460	RT	Copper	1200	7.3	22.00	54.50	19.00	270.00
LV0424HZCFREPDDXAG	3.5	41200	30000	460	RT	Copper	1380	7	22.00	54.50	19.00	264.00
LV0484HZCFREPDDXAG	4	48400	39300	460	RT	Copper	1640	7.8	25.00	54.50	21.00	299.00
LV0604HZCFRETDDXAG	5	61900	49200	460	RT	Copper	1700	9.80	25.00	54.50	21.00	318.00
LV0304HZCFLEPDDXAG	2.5	29500	21500	460	LR	Copper	950	6.4	22.00	43.00	18.00	224.00



CPE41105U

ELECTRIC HEAT/COOL

- 12 SEER
- Up to 15KW Electric Resistance Heat
- 2 Stage Electric Heat Control Board
- Internal Automatic Reset Thermal Limits
- Internal Fusing
- Heating Capacity @ 230 V

NATIONAL COMFORT PRODUCTS HEATING & A/C EQUIPMENT

					Dimensions (In.)		
Part No.	Cooling Capacity (BTUH)	Heating Capacity (BTUH)	Voltage	Cooling Efficiency (SEER)	H	W	Ship Wgt (Lbs.)
CPE41105U	12000	15959	208/230	12.0	43.00	28.00	305.00
CPE41707U	17500	22438	208/230	12.0	43.00	28.00	305.00



CPLG

ACCESSORIES

Custom paint options available for louvered grill

NATIONAL COMFORT PRODUCTS HEATING & A/C EQUIPMENT

	Dimensions (In.)			
Part No.	H	W	L	Ship Wgt (Lbs.)
CPLG	7.00	40.00	32.00	11.00
CPWS	4.00	18.00	46.00	41.00
CPWSA	6.30	6.30	31.50	6.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

EVAPORATIVE COOLER

RESIDENTIAL



FD350

ASPEN, DOWN DISCHARGE

Down discharge model features unique full closing damper to seal the unit and prevent winter heat loss.

Part No.	Industry Standard CFM	HP at CFM	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
FD350	3000	1/3	32.00	28.00	28.00	95.00
FD450	4000 to 4500	1/3 to 1/2	36.00	34.00	34.00	125.00
FD650	5500 to 6500	1/2 to 3/4	42.25	37.00	37.00	160.00



FS350

ASPEN, SIDE DISCHARGE

Part No.	Industry Standard CFM	HP at CFM	HP	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
FS350	3000	1/3	1/3	32.00	28.50	28.50	85.00
FS450	4000 to 4500	1/3 to 1/2	13-1/2	36.00	34.00	34.00	125.00
FS650	5500 to 6500	1/2 to 3/4	1/2-3/4	40.00	38.00	38.00	152.00



TD4801

TROPHY, DOWN DISCHARGE

Part No.	Industry Standard CFM	HP at CFM	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
TD4801	4400 to 4800	1/2 to 3/4	27.31	42.00	43.00	161.00
TD6801	5800 to 6800	3/4 to 1	27.31	42.00	45.00	180.00



TH6801

TROPHY, SIDE DISCHARGE

Part No.	Industry Standard CFM	HP at CFM	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
TH6801	5800 to 6800	3/4 to 1	27.31	42.00	45.00	198.00



MK21

MOTOR KIT

Motor kits for residential coolers. Includes motor, sheaves, cord, clamps and installation hardware.

Part No.	HP	No. of Speeds	Voltage	Ship Wgt (Lbs.)
MK21	1/3	1	115	15.00
MK22	1/3	2	115	17.00
MK31	1/2	1	115	16.00
MK32	1/2	2	115	16.80
MK34	1/2	1	208/230	20.00
MK35	1/2	2	208/230	18.00
MK41	3/4	1	115	16.00
MK42	3/4	2	115	20.00
MK45	3/4	2	208/230	20.00
MK46	1	1	115	30.00
MK47	1	1	208/230	30.00



PD4803

PRO, DOWN DISCHARGE

Part No.	Industry Standard CFM	Voltage	HP	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
PD4803	4800	115	3/4	27.25	42.00	43.00	177.00
PD6803	6800	115	1	34.25	42.00	45.00	217.00


PH4803

PRO, SIDE DISCHARGE

Part No.	Industry Standard CFM	Voltage	HP	Dimensions (In.) H	W	D	Ship Wgt (Lbs.)
PH4803	4800	115	3/4	27.25	42.00	43.00	160.00
PH4802	4800	115	3/4	27.31	42.00	43.00	160.00
PH6803	6800	115	1	34.25	42.00	45.00	217.00

COMMERCIAL

DOWN DISCHARGE

For commercial applications, factories, warehouses, greenhouses, live stock, etc. Order motor and sheave separately.


D2231

DOWN DISCHARGE

Part No.	HP at CFM	Dimensions (In.) W	D	H	Ship Wgt (Lbs.)
D2231	1 1/2 to 7 1/2	62.00	62.00	60.00	550.00
D8801	3/4 to 3	41.00	41.00	52.00	280.00
D1425	1 to 3	52.00	52.00	52.00	413.00


H8801

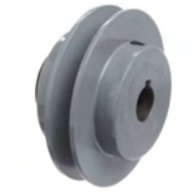
SIDE DISCHARGE

Part No.	HP at CFM	Dimensions (In.) W	D	H	Ship Wgt (Lbs.)
H8801	3/4 to 3	41.00	41.00	52.00	280.00
H1425	1 to 3	52.00	52.00	52.00	395.00
H2231	1 1/2 to 5	62.00	62.00	60.00	530.00


M161

Motor selection for commercial units (D/H Series)

Part No.	HP	No. of Speeds	Voltage	Frame	Shaft Dia. (In.)	Ship Wgt (Lbs.)
M161	3/4	1	115/1, 208-240/1	56	5/8	24.00
M163B	3/4	1	208-240/3, 460/3	56	5/8	22.00
M165	1	1	115/1, 208-240/1	56	5/8	31.48
M166C	1	1	208-240/3, 460/3	143T	7/8	40.00
M168	1	2	208-230/1	143T	7/8	32.00
M169A	1 1/2	1	115/1, 208-240/1	56H	5/8	42.00
M172A	2	1	115/1, 208-240/1	56H	5/8	50.00
M173C	2	1	208-240/3, 460/3	145T	7/8	44.00
M176C	3	1	230/460/3/60	182T	1 1/8	75.00
M178C	5	1	208-240/3, 460/3	184T	1 1/8	81.00


S1A

Sheave selection for commercial units (D/H Series)

Part No.	Diameter (In.)	Bore (In.)	Type	Ship Wgt (Lbs.)
S1A	3.15	7/8	Single	3.00
S2A	3.75	7/8	Single	2.00
S3A	4.15	7/8	Single	2.00
S3P	4.15	5/8	Single	2.00
S4A	4.75	5/8	Single	3.00
S11	5.35	5/8	Single	5.00
S5A	3.35	5/8	Dual	3.00
S5P	3.35	7/8	Dual	3.00
S8A	4.75	5/8	Dual	5.00
S8B	4.75	7/8	Dual	5.00
S8P	4.75	1 1/8	Dual	5.00

NOTES

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov










HART COOLEY | Honeywell Home | RGF ENVIRONMENTAL GRO | Lau Industries, Inc. | Aprilaire® Trusted Solutions for a Healthy Home™

Floor and Baseboard Page
- Floor Register 478
- Floor Return Air Grill 478
- Floor Diffuser 479
- Baseboard Toe-Space Grill 480
- Baseboard Diffuser 480
- Baseboard Return Air Grill 480-481
- Baseboard Register 481
- Baseboard Supply Register 481

Sidewall and Ceiling
- Curved Blade Supply Register 482-483
- Return Air Grill 483-484
- Return Air Filter Grill 484-485
- Supply Register 485-487
- Straight Blade Supply Register 487

Ceiling
- Round Ceiling Diffuser 488
- Square Ceiling Diffuser 488-491

Ceiling and Commercial
- Curved Blade Register 492
- Transfer Grill 493
- Supply Register 493-494
- Return Grill 494-495
- Filter Grill 495
- Touch-Up Paint 495

T-Bar Diffusers Page
- Surfaire® Diffuser 496
- Perforated Supply Diffuser 496-497
- Perforated Return Diffuser 497
- Filter Grill 497
- Fixed Pattern Diffuser 498
- High Volume Supply Diffuser 499
- Return Grill 499
- Accessories 499

Air Distribution
- 496-564

Air Quality
- Air Cleaner 569-571
- Air Scrubber 571
- Fresh Air Ventilation System 572-573
- Ultraviolet Biocide 573-574
- AC/Heat Duct Air Purification System 574-578
- Humidifier 579-581
- Portable Air Purification System 581
- Dehumidifier 581-582
- Disposable Fiberglass Filter 582-584
- Poly Synthetic Filter 584-586
- Pleated Filter 586-594
- Hog Hair Roll 594
- Hammock 594
- Foam Roll 595
- Hog Hair Pre-cut 595
- Kwik Kut 595
- Aluminum Air Filter 596

FLOOR REGISTER



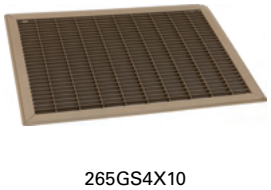
210GS4X8

- All-steel construction
- Extremely rigid
- Free area averages over 75%
- Toe-operated valve control
- Golden Sand enamel finish

HART COOLEY

Part No.	Width (In.)	Length (In.)
210GS4X8	4.00	8.00
210GS4X10	4.00	10.00
210GS4X12	4.00	12.00
210GS6X8	6.00	8.00
210GS6X10	6.00	10.00
210GS6X12	6.00	12.00
210GS8X8	8.00	8.00
210GS8X10	8.00	10.00
210GS8X12	8.00	12.00
210GS8X14	8.00	14.00
210GS9X12	9.00	12.00
210GS10X10	10.00	10.00
210GS10X12	10.00	12.00
210GS14X6	6.00	14.00
210GS14X12	12.00	14.00

FLOOR RETURN AIR GRILL



265GS4X10

- All-steel construction
- Extremely rigid
- Free area averages over 75%
- Golden Sand enamel finish

HART COOLEY

Part No.	Width (In.)	Length (In.)
265GS4X10	4.00	10.00
265GS4X12	4.00	12.00
265GS4X14	4.00	14.00
265GS6X10	6.00	10.00
265GS6X12	6.00	12.00
265GS6X14	6.00	14.00
265GS6X16	6.00	16.00
265GS6X20	6.00	20.00
265GS6X24	6.00	24.00
265GS6X30	6.00	30.00
265GS8X10	8.00	10.00
265GS8X12	8.00	12.00
265GS8X14	8.00	14.00
265GS8X16	8.00	16.00
265GS8X20	8.00	20.00

Continued on next page

Part No.	Width (In.)	Length (In.)
265GS8X24	8.00	24.00
265GS8X30	8.00	30.00
265GS8X36	8.00	36.00
265GS10X10	10.00	10.00
265GS10X12	10.00	12.00
265GS10X14	10.00	14.00
265GS10X20	10.00	20.00
265GS10X24	10.00	24.00
265GS10X30	10.00	30.00
265GS10X36	10.00	36.00
265GS12X12	12.00	12.00
265GS12X14	12.00	14.00
265GS12X20	12.00	20.00
265GS12X24	12.00	24.00
265GS12X30	12.00	30.00
265GS14X14	14.00	14.00
265GS14X16	14.00	16.00
265GS14X20	14.00	20.00
265GS14X24	14.00	24.00
265GS14X30	14.00	30.00
265GS16X20	16.00	20.00
265GS16X24	16.00	24.00
265GS20X20	20.00	20.00
265GS20X24	20.00	24.00
265GS20X30	20.00	30.00

FLOOR DIFFUSER



421GS2X10

GOLDEN SAND

- All-steel construction
- Multi-angle fin setting
- Foot-operated dial control
- Golden Sand enamel finish
- Overall dimension: listed size + 1 1/2"

HART COOLEY

Part No.	Width (In.)	Length (In.)
421GS2X10	2 1/4	10.00
421GS2X12	2 1/4	12.00
421GS2X14	2 1/4	14.00
421GS4X8	4.00	8.00
421GS4X10	4.00	10.00
421GS4X12	4.00	12.00
421GS4X14	4.00	14.00
421GS6X10	6.00	10.00
421GS6X12	6.00	12.00
421GS6X14	6.00	14.00


RZ421W4X10

REZZIN™

- Engineered polymer construction, Rezzin™
- Solid ABS construction for floor use
- Multi-angled fins for fan pattern of air distribution
- Foot-operated, opposed-blade damper
- Bright White finish

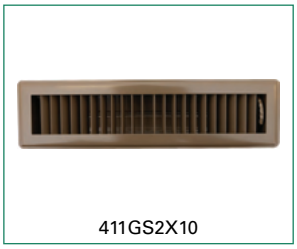
Part No.	Width (In.)	Length (In.)
RZ421W4X10	4.00	10.00
RZ421W2X12	2.00	12.00
RZ421W4X12	4.00	12.00


421W2X10

BRIGHT WHITE

- All-steel construction
- Multi-angle fin setting
- Foot-operated dial control
- Bright White enamel finish
- Overall dimension: listed size + 1 1/2”

Part No.	Width (In.)	Length (In.)
421W2X10	2 1/4	10.00
421W2X12	2 1/4	12.00
421W2X14	2 1/4	14.00
421W4X10	4.00	10.00
421W4X12	4.00	12.00
421W4X14	4.00	14.00
421W6X10	6.00	10.00
421W6X12	6.00	12.00
421W6X14	6.00	14.00


411GS2X10

DELUXE

- All-steel construction
- Multi-angle fin setting
- Foot-operated dial control
- Golden Sand enamel finish
- Overall dimension: listed size + 1 1/4” (6”W), 1 1/8” (2 1/4”, 4”W)

Part No.	Width (In.)	Length (In.)
411GS2X10	2 1/4	10.00
411GS2X12	2 1/4	12.00
411GS2X14	2 1/4	14.00
411GS4X10	4.00	10.00
411GS4X12	4.00	12.00
411GS4X14	4.00	14.00
411GS6X10	6.00	10.00
411W6X10	6.00	10.00
411GS6X12	6.00	12.00
411GS6X14	6.00	14.00


531A2X12

ALUMINUM FACE

- Extruded aluminum margins
- Heavy cross bracing at strategic intervals
- Dual multi-shutter valves for adjustable air pattern
- Nylon slide valve operators
- Satin anodized finish
- Overall dimension: listed size + 1 1/2”

Part No.	Width (In.)	Length (In.)
531A2X12	2 1/4	12.00
531A4X10	4.00	10.00
531A6X12	6.00	12.00

BASEBOARD TOE-SPACE GRILL



420GS10X2

GOLDEN SAND

- All-steel construction
- Multi-angle fin setting
- Golden Sand enamel finish
- Overall dimension: listed size + 1 1/8" (2 1/4" W), 1 1/2" (4" W)

	Dimensions (In.)	
Part No.	W	L
420GS10X2	2 1/4	10.00
420GS12X2	2 1/4	12.00
420GS2X14	2 1/4	14.00
420GS4X10	4.00	10.00
420GS4X12	4.00	12.00



420W10X2

BRIGHT WHITE

- All-steel construction
- Multi-angle fin setting
- Bright White enamel finish
- Overall dimension: listed size + 1 1/8" (2 1/4" W), 1 1/2" (4" W)

	Dimensions (In.)	
Part No.	W	L
420W10X2	2 1/4	10.00
420W12X2	2 1/4	12.00
420W12X4	4.00	12.00
420W14X2	2 1/4	14.00



406W15

400 SERIES

- All-steel construction
- 15"W: 32 square inches of free areas
- 18"W: 38 square inches of free areas

	Dimensions (In.)
Part No.	L
406W15	15.00
406W18	18.00
406GS18	18.00



462W24

460 SERIES

- All-steel construction
- Airfoil valves reduce resistance
- Equal air distribution over the length of the diffuser

	Dimensions (In.)
Part No.	L
462W24	24.00
464W48	48.00

BASEBOARD RETURN AIR GRILL



407GS18

400 SERIES

- All-steel construction
- 38 square inches of free area
- Matches 406 Series

	Dimensions (In.)
Part No.	L
407GS18[1]	18.00
407W18	18.00

[1] Golden Sand enamel



657W10X6

VERTICAL

- One-piece steel construction
- 1/3" spaced fins set at 20°
- 7/8" margin turnback
- Bright White enamel finish
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
657W10X6	10.00	6.00
657W12X6	12.00	6.00
657W14X6	14.00	6.00
657W14X8	14.00	8.00
657W20X10	20.00	10.00
657W24X6	24.00	6.00
657W24X8	24.00	8.00
657W24X10	24.00	10.00
657W24X12	24.00	12.00
657W30X6	30.00	6.00
657W30X8	30.00	8.00
657W30X10	30.00	10.00
657W30X12	30.00	12.00


658W10X6

BASE PROJECTION

- All-steel construction
- Horizontal face fins set 20° down
- Bright White enamel finish
- 3 3/4" base projection
- Overall dimension: width-listed size + 1 3/4".; height-listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
658W10X6	10.00	6.00
658W12X6	12.00	6.00
658W14X6	14.00	6.00
658W24X6	24.00	6.00
658W30X6	30.00	6.00
658W30X8	30.00	8.00

BASEBOARD REGISTER


654W10X6

VERTICAL

- One-piece steel construction
- 1/3" spaced fins set at 20°
- 7/8" margin turnback
- Positive volume control damper
- Bright White enamel finish
- Overall dimension: listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
654W10X6	10.00	6.00
654W12X6	12.00	6.00
654W14X6	14.00	6.00


655W10X6

BASE PROJECTION

- All-steel construction
- Horizontal face fins set 20° down
- Positive volume control damper
- Bright White enamel finish
- 3 3/4" base projection
- Overall dimension: width-listed size + 1 3/4"; height-listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
655W10X6	10.00	6.00
655W12X6	12.00	6.00
655W14X6	14.00	6.00


664W8X6

NO DAMPER

- All-steel construction
- 1/3" spaced fins set at 20°
- Multi-shutter valve
- Bright White enamel finish
- 7/8" margin turnback
- 1 5/8" depth when fully opened
- Overall dimension: listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
664W8X6	8.00	6.00
664W10X6	10.00	6.00
664W12X6	12.00	6.00
664W14X6	14.00	6.00

BASEBOARD SUPPLY REGISTER


651W10X6

- 1/3" spaced fins set at 20°
- All-steel construction
- Bright White enamel finish
- Positive volume control damper
- Overall dimension: listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
651W10X6	10.00	6.00
651W12X6	12.00	6.00
651W14X6	14.00	6.00

CURVED BLADE SUPPLY REGISTER



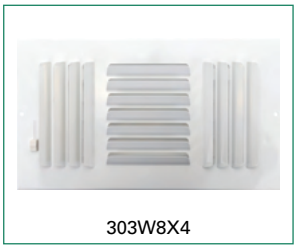
301W8X4

ONE-WAY DEFLECTION, STEEL

- All-steel one-piece stamped face curved blade construction
- Multi-shutter valve
- Equipped with gasket
- For sidewall or ceiling application
- Bright White enamel finish

- One-way air pattern

	Dimensions (In.)	
Part No.	W	H
301W8X4	8.00	4.00
301W8X6	8.00	6.00
301W10X6	10.00	6.00
301W10X8	10.00	8.00
301W12X6	12.00	6.00
301W12X8	12.00	8.00
301W14X6	14.00	6.00
301W14X8	14.00	8.00



303W8X4

THREE-WAY DEFLECTION, STEEL

- All-steel one-piece stamped face curved blade construction
- Multi-shutter valve
- Equipped with gasket
- For sidewall or ceiling application
- Bright White enamel finish

- Three-way air pattern

	Dimensions (In.)	
Part No.	W	H
303W8X4	8.00	4.00
303W8X6	8.00	6.00
303W8X8	8.00	8.00
303W10X6	10.00	6.00
303W12X6	12.00	6.00
303W12X8	12.00	8.00
303W14X6	14.00	6.00
303W14X8	14.00	8.00



304W6X6

FOUR-WAY DEFLECTION, STEEL

- All-steel one-piece stamped face curved blade construction
- Multi-shutter valve
- Equipped with gasket
- For sidewall or ceiling application
- Bright White enamel finish

- Four-way air pattern

	Dimensions (In.)	
Part No.	W	H
304W6X6	6.00	6.00
304W8X8	8.00	8.00
304W10X10	10.00	10.00
304W12X12	12.00	12.00
304W14X14	14.00	14.00



A611MSW6X6

ONE-WAY DEFLECTION

- Aluminum construction
- Equipped with gasket
- Adjustable curved blades
- Bright White enamel finish
- Multi-shutter valve
- Overall dimension: listed size + 1 3/4"

- Stamped face margins eliminate mitered corners and rough edges
- One-way air pattern

	Dimensions (In.)	
Part No.	W	H
A611MSW6X6	6.00	6.00
A611MSW8X4	8.00	4.00
A611MSW8X6	8.00	6.00
A611MSW8X8	8.00	8.00
A611MSW10X4	10.00	4.00
A611MSW10X6	10.00	6.00
A611MSW10X8	10.00	8.00
A611MSW10X10	10.00	10.00
A611MSW12X4	12.00	4.00
A611MSW12X6	12.00	6.00
A611MSW12X8	12.00	8.00
A611MSW12X12	12.00	12.00
A611MSW14X6	14.00	6.00
A611MSW14X8	14.00	8.00


A612MSW6X6

TWO-WAY DEFLECTION

- Aluminum construction
- Equipped with gasket
- Adjustable curved blades
- Bright White enamel finish
- Multi-shutter valve
- Overall dimension: listed size + 1 3/4"
- Stamped face margins eliminate mitered corners and rough edges
- Two-way air pattern

	Dimensions (In.)	
Part No.	W	H
A612MSW6X6	6.00	6.00
A612MSW8X8	8.00	8.00
A612MSW10X6	10.00	6.00
A612MSW10X10	10.00	10.00
A612MSW12X6	12.00	6.00
A612MSW12X8	12.00	8.00
A612MSW12X12	12.00	12.00


A613MSW6X6

THREE-WAY DEFLECTION

- Aluminum construction
- Equipped with gasket
- Adjustable curved blades
- Bright White enamel finish
- Multi-shutter valve
- Overall dimension: listed size + 1 3/4"
- Stamped face margins eliminate mitered corners and rough edges
- Three-way air pattern

	Dimensions (In.)	
Part No.	W	H
A613MSW6X6	6.00	6.00
A613MSW8X4	8.00	4.00
A613MSW8X8	8.00	8.00
A613MSW10X4	10.00	4.00
A613MSW10X6	10.00	6.00
A613MSW10X10	10.00	10.00
A613MSW12X6	12.00	6.00
A613MSW12X8	12.00	8.00
A613MSW12X12	12.00	12.00
A613MSW14X6	14.00	6.00
A613MSW14X8	14.00	8.00


A614MSW6X6

FOUR-WAY DEFLECTION

- Aluminum construction
- Equipped with gasket
- Adjustable curved blades
- Bright White enamel finish
- Multi-shutter valve
- Overall dimension: listed size + 1 3/4"
- Stamped face margins eliminate mitered corners and rough edges
- Four-way air pattern

	Dimensions (In.)	
Part No.	W	H
A614MSW6X6	6.00	6.00
A614MSW8X8	8.00	8.00
A614MSW10X10	10.00	10.00
A614MSW12X12	12.00	12.00
A614MSW14X14	14.00	14.00

RETURN AIR GRILL


650H8X4

HORIZONTAL, 1/3" FIN SPACING

- 1/3"-spaced fins set at 20°
- All-steel construction
- 5/16" margin turnback
- Bright White enamel finish
- Overall dimension: listed size + 1 3/4"

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)	
Part No.	W	H
650H8X4	8.00	4.00
650H10X10	10.00	10.00
650H12X12	12.00	12.00
650H14X8	14.00	8.00
650H16X12	16.00	12.00
650H18X18	18.00	18.00
650H20X14	20.00	14.00
650H24X6	24.00	6.00
650H30X12	30.00	12.00
650H36X10	36.00	10.00

RETURN AIR GRILL


650V14X20

VERTICAL, 1/3" FIN SPACING

- 1/3" spaced fins set at 20°
- All-steel construction
- 5/16" margin turnback
- Bright White enamel finish
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
650V14X20	14.00	20.00
650V14X24	14.00	24.00
650V14X30	14.00	30.00
650V16X20	16.00	20.00
650V16X24	16.00	24.00
650V20X24	20.00	24.00
650V20X25	20.00	25.00


672W8X8

STEEL

- 1/2" spaced fins set at 40°
- 5/16" margin turnback
- Bright White enamel finish
- Overall dimension: listed size + 1 3/4"

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)	
Part No.	W	H
672W8X8	8.00	8.00
672W10X4	10.00	4.00
672W12X6	12.00	6.00
672W14X8	14.00	8.00
672W18X12	18.00	12.00
672W20X10	20.00	10.00
672W24X12	24.00	12.00
672W30X16	30.00	16.00
672W36X16	36.00	16.00

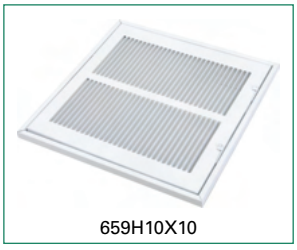
RETURN AIR FILTER GRILL


659V10X20

VERTICAL, 1/3" FIN SPACING

- 1/3" spaced fins set at 20°
- Use standard 1" thick filters (not included)
- Removable face for easy installation and cleaning
- Equipped with filter adjustable retainers
- Bright White enamel finish
- Overall dimension: listed size + 2 21/32"

	Dimensions (In.)	
Part No.	W	H
659V10X20	10.00	20.00
659V12X24	12.00	24.00
659V14X20	14.00	20.00
659V14X24	14.00	24.00
659V14X25	14.00	25.00
659V14X30	14.00	30.00
659V16X20	16.00	20.00
659V16X25	16.00	25.00
659V20X25	20.00	25.00
659V20X30	20.00	30.00


659H10X10

HORIZONTAL, 1/3" FIN SPACING

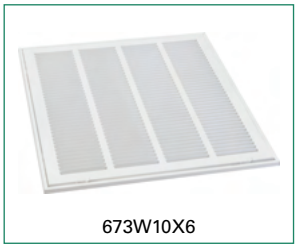
- 1/3" spaced fins set at 20°
- Use standard 1" thick filters (not included)
- Removable face for easy installation and cleaning
- Equipped with filter adjustable retainers
- Bright White enamel finish
- Overall dimension: listed size + 2 21/32"

	Dimensions (In.)	
Part No.	W	H
659H10X10	10.00	10.00
659H12X12	12.00	12.00
659H14X14	14.00	14.00
659H16X16	16.00	16.00
659H18X18	18.00	18.00
659H20X10	20.00	10.00
659H20X12	20.00	12.00
659H20X14	20.00	14.00
659H20X16	20.00	16.00
659H20X20	20.00	20.00
659H24X12	24.00	12.00
659H24X14	24.00	14.00
659H24X20	24.00	20.00
659H24X24	24.00	24.00
659H25X14	25.00	14.00
659H25X16	25.00	16.00
659H25X20	25.00	20.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

	Dimensions (In.)	
Part No.	W	H
659H25X25	25.00	25.00
659H30X10	30.00	10.00
659H30X14	30.00	14.00
659H30X20	30.00	20.00
659H30X24	30.00	24.00
659H30X30	30.00	30.00


673W10X6

HORIZONTAL, 1/2" FIN SPACING

- 1/2" spaced fins set at 40°
- Use standard 1" thick filters (not included)
- Removable face for easy installation and cleaning
- Equipped with filter adjustable retainers
- Bright White enamel finish
- Overall dimension: listed size + 2 21/32"

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)	
Part No.	W	H
673W10X6	10.00	6.00
673W12X12	12.00	12.00
673W14X20	14.00	20.00
673W16X25	16.00	25.00
673W18X24	18.00	24.00
673W20X36	20.00	36.00
673W24X24	24.00	24.00
673W25X16	25.00	16.00
673W30X20	30.00	20.00
673W36X24	36.00	24.00
673W20X25	20.00	25.00
673W20X30	20.00	30.00
673W24X10	24.00	10.00
673W24X12	24.00	12.00
673W24X14	24.00	14.00
673W24X16	24.00	16.00
673W24X18	24.00	18.00
673W24X20	24.00	20.00
673W24X30	24.00	30.00
673W24X36	24.00	36.00
673W25X14	25.00	14.00
673W25X20	25.00	20.00
673W30X10	30.00	10.00
673W30X12	30.00	12.00
673W30X14	30.00	14.00
673W30X16	30.00	16.00
673W30X18	30.00	18.00
673W30X24	30.00	24.00

SUPPLY REGISTER


661W6X6

TWO-WAY DEFLECTION, FLUSH

- 1/3" spaced fins set at 20°
- All-steel construction
- Multi-shutter valve
- 1 5/8" depth when fully opened
- Interlocking valve louvers for positive shutoff
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
661W6X6	6.00	6.00
661W8X4	8.00	4.00
661W8X6	8.00	6.00
661W8X8	8.00	8.00
661W10X4	10.00	4.00
661W10X6	10.00	6.00
661W10X8	10.00	8.00
661W10X10	10.00	10.00
661W12X4	12.00	4.00
661W12X6	12.00	6.00
661W12X8	12.00	8.00
661W14X4	14.00	4.00
661W14X6	14.00	6.00
661W14X8	14.00	8.00
661W16X6	16.00	6.00
661W16X8	16.00	8.00
661W24X6	24.00	6.00
661W30X6	30.00	6.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SUPPLY REGISTER


631W8X4

THREE-WAY DEFLECTION, FLUSH

- 1/3" spaced fins set at 20°
- All-steel construction
- Multi-shutter valve
- 1 5/8" depth when fully opened
- Interlocking valve louvers for positive shutoff
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 1 1/4"

	Dimensions (In.)	
Part No.	W	H
631W8X4	8.00	4.00
631W8X6	8.00	6.00
631W10X4	10.00	4.00
631W10X6	10.00	6.00
631W12X6	12.00	6.00


682W8X4

TWO-WAY DEFLECTION

- 1/2" spaced fins set at 40°
- 1 5/8" depth when fully opened
- All-steel construction
- Equipped with gasket
- Multi-shutter valve
- Bright White enamel finish
- Interlocking valve louvers for positive shut-off
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
682W8X4	8.00	4.00
682W10X4	10.00	4.00
682W10X6	10.00	6.00
682W10X8	10.00	8.00
682W12X4	12.00	4.00
682W12X6	12.00	6.00
682W12X8	12.00	8.00
682W12X12	12.00	12.00
682W14X4	14.00	4.00
682W14X6	14.00	6.00
682W14X8	14.00	8.00
682W16X6	16.00	6.00


RZ682W10X4

TWO-WAY DEFLECTION, REZZIN™

- Engineered polymer construction
- Made from flame-retardant ABS that meets UL 94 V-0 and UL 94-5VA standards for flammability
- Traditional styling
- Integral multi-shutter damper with easy-to-use damper handle
- For heating or cooling applications
- Bright White finish

	Dimensions (In.)	
Part No.	W	H
RZ682W10X4	10.00	4.00


683W6X6

THREE-WAY DEFLECTION

- 1/2" spaced fins set at 40°
- 1 5/8" depth when full opened
- All-steel construction
- Equipped with gasket
- Multi-shutter valve
- Bright White enamel finish
- Interlocking valve louvers for positive shut-off
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
683W6X6	6.00	6.00
683W8X4	8.00	4.00
683W8X6	8.00	6.00
683W10X4	10.00	4.00
683W10X6	10.00	6.00
683W10X8	10.00	8.00
683W12X6	12.00	6.00
683W12X8	12.00	8.00
683W14X4	14.00	4.00
683W14X6	14.00	6.00
683W14X8	14.00	8.00
683W16X6	16.00	6.00


684M6X6

STEEL

HART COOLEY

	Dimensions (In.)	
Part No.	W	H
684M6X6	6.00	6.00
684M8X8	8.00	8.00
684M10X10	10.00	10.00
684M12X12	12.00	12.00
684M14X14	14.00	14.00


A684W6X6

ALUMINUM

HART COOLEY

	Dimensions (In.)	
Part No.	W	H
A684W6X6	6.00	6.00
A684W12X12	12.00	12.00

STRAIGHT BLADE SUPPLY REGISTER


A618MSW8X4

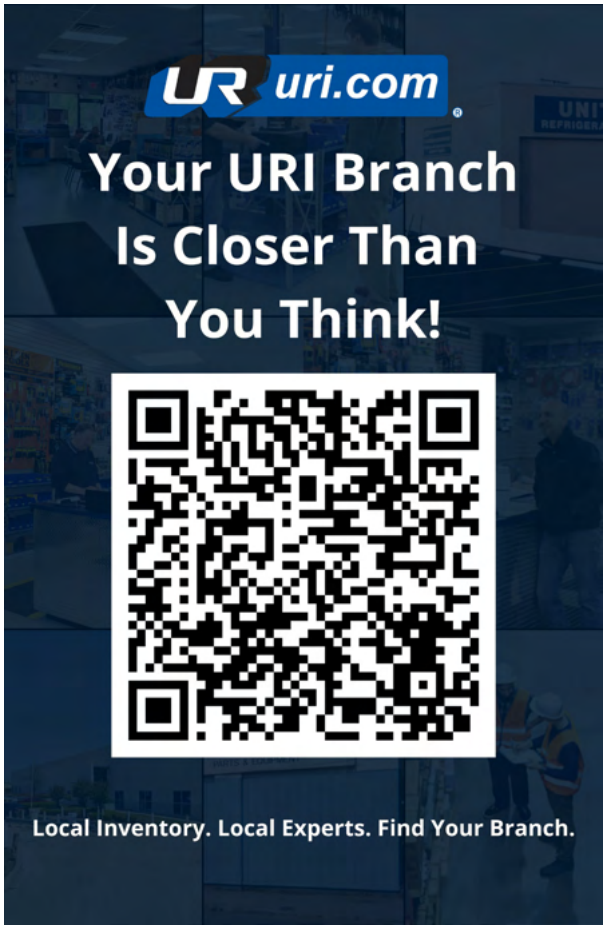
- Aluminum construction
- Adjustable straight fins provides individual deflection control
- Multi-shutter valve
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 1 3/4"

HART COOLEY

	Dimensions (In.)	
Part No.	W	H
A618MSW8X4	8.00	4.00
A618MSW8X6	8.00	6.00
A618MSW8X8	8.00	8.00
A618MSW10X4	10.00	4.00
A618MSW10X6	10.00	6.00
A618MSW10X8	10.00	8.00
A618MSW10X10	10.00	10.00
A618MSW12X4	12.00	4.00
A618MSW12X6	12.00	6.00
A618MSW12X8	12.00	8.00

Continued on next page

	Dimensions (In.)	
Part No.	W	H
A618MSW12X12	12.00	12.00
A618MSW14X4	14.00	4.00
A618MSW14X6	14.00	6.00
A618MSW14X8	14.00	8.00
A618MSW14X14	14.00	14.00



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ROUND CEILING DIFFUSER


MV360

DAMPER

Ceiling diffuser outlet and damper in one piece. Plastic with stepped collar (6", 7", 8"). 8" air opening, 9 1/4" hole, 12 1/2" overall diameter, Mounting clips rotate into position eliminating need to drill holes. Damper mechanism will not strip or break when overtightened.

RECTORSEAL

Part No.	Dia. (In.)
MV360	9 1/4


16W6

- All-steel construction
- Step down diffuser rings deflect air stream 360°
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 3 15/16"

HART COOLEY

Part No.	Dia. (In.)
16W6	6.00
16W8	8.00
16W10	10.00
16W12	12.00
16W14	14.00

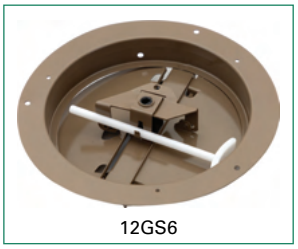

11GS6

DUCT RING

- All-steel construction
- For installation of diffuser when not using a damper
- Golden Sand enamel finish

HART COOLEY

Part No.	Dia. (In.)
11GS6	6.00
11GS8	8.00
11GS10	10.00
11GS12	12.00
11GS14	14.00


12GS6

BUTTERFLY DAMPER

- All-steel construction
- Controls air volume evenly over entire diffuser
- Removable knob operator for adjustment from closed to fully open
- Golden Sand enamel finish

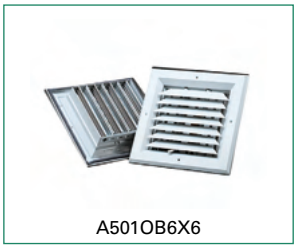
HART COOLEY

Part No.	Dia. (In.)
12GS6	6.00
12GS8	8.00
12GS10	10.00
12GS12	12.00
12GS14	14.00

SQUARE CEILING DIFFUSER

"A500" SERIES

- All-aluminum face construction
- Face mount for easy installation
- Overall dimension: listed size + 3"
- Inconspicuous fingertip lever for air volume control
- Equipped with gasket
- Bright White enamel finish

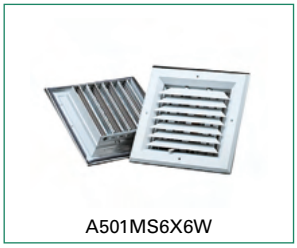

A501OB6X6

ONE-WAY DEFLECTION

- Opposed blade damper, face mount

HART COOLEY

	Dimensions (In.)	
Part No.	W	L
A501OB6X6	6.00	6.00
A501OB8X8	8.00	8.00
A501OB10X10	10.00	10.00


A501MS6X6W

ONE-WAY DEFLECTION

- Multi-shutter damper, face mount

	Dimensions (In.)	
Part No.	W	L
A501MS6X6W	6.00	6.00
A501MS8X8W	8.00	8.00
A501MS10X10W	10.00	10.00
A501MS12X12W	12.00	12.00
A501MS14X14W	14.00	14.00


A502OB6X6

TWO-WAY DEFLECTION

- Opposed blade damper, face mount

	Dimensions (In.)	
Part No.	W	L
A502OB6X6	6.00	6.00
A502OB8X8	8.00	8.00
A502OB10X10	10.00	10.00
A502OB12X12	12.00	12.00


A502MS6X6W

TWO-WAY DEFLECTION

- Multi-shutter damper, face mount

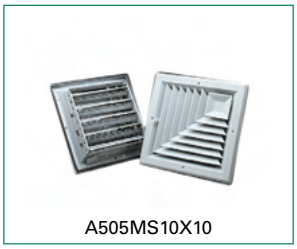
	Dimensions (In.)	
Part No.	W	L
A502MS6X6W	6.00	6.00
A502MS8X8W	8.00	8.00
A502MS10X10W	10.00	10.00
A502MS14X14W	14.00	14.00


A505OB6X6

TWO-WAY CORNER DEFLECTION

- Opposed blade damper, face mount

	Dimensions (In.)	
Part No.	W	L
A505OB6X6	6.00	6.00
A505OB8X8	8.00	8.00
A505OB10X10	10.00	10.00
A505OB12X12	12.00	12.00


A505MS10X10

TWO-WAY CORNER DEFLECTION

- Multi-shutter damper, face mount

	Dimensions (In.)	
Part No.	W	L
A505MS10X10	10.00	10.00
A505MS12X12	12.00	12.00

SQUARE CEILING DIFFUSER



A503OB6X6

THREE-WAY DEFLECTION

- Opposed blade damper, face mount

	Dimensions (In.)	
Part No.	W	L
A503OB6X6	6.00	6.00
A503OB8X8	8.00	8.00
A503OB10X10	10.00	10.00
A503OB12X12	12.00	12.00

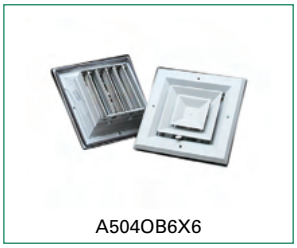


A503MS8X8

THREE-WAY DEFLECTION

- Multi-shutter damper, face mount

	Dimensions (In.)	
Part No.	W	L
A503MS8X8	8.00	8.00
A503MS12X12	12.00	12.00
A503MS14X14	14.00	14.00



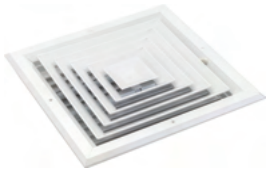
A504OB6X6

FOUR-WAY DEFLECTION

- Opposed blade damper, face mount

	Dimensions (In.)	
Part No.	W	L
A504OB6X6	6.00	6.00
A504OB8X8	8.00	8.00
A504OB10X10	10.00	10.00
A504OB12X12	12.00	12.00




A504MS6X6

FOUR-WAY DEFLECTION

- Multi-shutter damper, face mount

	Dimensions (In.)	
Part No.	W	L
A504MS6X6	6.00	6.00
A504MS8X8	8.00	8.00
A504MS10X10	10.00	10.00
A504MS12X12	12.00	12.00
A504MS14X14	14.00	14.00


RZ503W12X12

REZZIN™

- White finish
- Interlocking collars (6, 7, 8" sizes)
- Quick, easy attachment to multiple sizes of flexible duct
- Ratcheting mounting clamp
- Can be installed or removed without the use of screws on ceiling material up to 3/4"
- Removable diffuser face or core facilitates cleaning and/or servicing
- Can also be interchanged with other faces
- Integral damper enables airflow adjustments, improving system balancing and room comfort. Provides tight seal when fully closed
- Large bead on collars provides secure attachment to flexible duct

	Dimensions (In.)	
Part No.	W	L
RZ503W12X12	12.00	12.00
RZ504W12X12	12.00	12.00
RZ505W12X12	12.00	12.00


24W6X6

SQUARE

- All-steel construction
- Step down face deflects air stream 360°
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 5 1/2"

	Dimensions (In.)	
Part No.	W	L
24W6X6	6.00	6.00
24W8X8	8.00	8.00
24W10X10	10.00	10.00
24W12X12	12.00	12.00
24W14X14	14.00	14.00
24W16X16	16.00	16.00
24W20X20	20.00	20.00
24W24X24	24.00	24.00

Continued on next page


22GS6X6

BUTTERFLY DAMPER

- All-steel construction
- Knob control for quick adjustment (removable)
- Installation flange included
- Golden Sand enamel finish

	Dimensions (In.)	
Part No.	W	L
22GS6X6	6.00	6.00
22GS8X8	8.00	8.00
22GS10X10	10.00	10.00
22GS12X12	12.00	12.00
22GS14X14	14.00	14.00

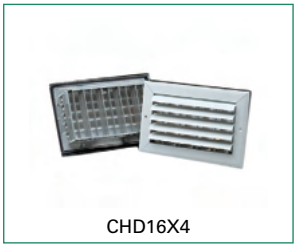

MV2

CEILING DIFFUSER/DAMPER

Ceiling diffuser outlet and damper in one piece. Plastic with stepped collar (6", 7", 8"). Mounting clips rotate into position eliminating need to drill holes. Damper mechanism will not strip or break when overtightened.

Part No.	Deflection
MV2	2-Way
MV3	3-Way
MV4	4-Way

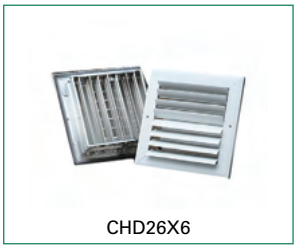
CURVED BLADE REGISTER


CHD16X4

ONE-WAY DEFLECTION

- Extruded aluminum
- Individually adjustable pivoted curved face bars, horizontal
- Opposed blade damper
- Equipped with gasket
- Satin Anodized finish
- Maximum depth: 2 1/4"
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
CHD16X4	6.00	4.00
CHD16X6	6.00	6.00
CHD18X4	8.00	4.00
CHD18X6	8.00	6.00
CHD18X8	8.00	8.00
CHD110X6	10.00	6.00
CHD110X8	10.00	8.00
CHD110X10	10.00	10.00
CHD112X6	12.00	6.00
CHD112X8	12.00	8.00
CHD112X12	12.00	12.00
CHD114X6	14.00	6.00
CHD114X8	14.00	8.00
CHD114X10	14.00	10.00
CHD116X6	16.00	6.00


CHD26X6

TWO-WAY DEFLECTION

- Extruded aluminum
- Individually adjustable pivoted curved face bars
- Opposed blade damper
- Equipped with gasket
- Satin Anodized finish
- Overall dimension: listed size + 1 3/4"
- Maximum depth: 2 1/4"

	Dimensions (In.)	
Part No.	W	H
CHD26X6	6.00	6.00
CHD28X8	8.00	8.00
CHD210X10	10.00	10.00
CHD212X12	12.00	12.00


CD38X8

THREE-WAY DEFLECTION

- Satin Anodized finish

	Dimensions (In.)	
Part No.	W	H
CD38X8	8.00	8.00
CD310X10	10.00	10.00
CD312X12	12.00	12.00


CD48X8

FOUR-WAY DEFLECTION

- Satin Anodized finish

	Dimensions (In.)	
Part No.	W	H
CD48X8	8.00	8.00
CD412X12	12.00	12.00
CD414X14	14.00	14.00


CD4W6X6

FOUR-WAY DEFLECTION

- Bright White enamel finish

	Dimensions (In.)	
Part No.	W	H
CD4W6X6	6.00	6.00
CD4W8X8	8.00	8.00
CD4W10X10	10.00	10.00

TRANSFER GRILL


TG12X8

- Extruded aluminum construction
- Inverted Y type grill bar for best vision proof quality and air flow
- Satin Anodized finish
- Overall dimension: listed size + 1 1/2"

	Dimensions (In.)	
Part No.	W	H
TG12X8	12.00	8.00
TG12X12	12.00	12.00
TG14X6	14.00	6.00
TG14X14	14.00	14.00
TG16X16	16.00	16.00
TG20X6	20.00	6.00
TG20X20	20.00	20.00

SUPPLY REGISTER


VD6X4

VERTICAL FRONT BARS

- Extruded aluminum
- Single row of individually adjustable face bars
- Pivoted bars for easy positive setting
- Opposed blade damper
- Equipped with gasket
- Satin Anodized finish
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
VD6X4	6.00	4.00
VD8X4	8.00	4.00
VD8X6	8.00	6.00
VD10X6	10.00	6.00
VD10X8	10.00	8.00
VD10X10	10.00	10.00
VD12X6	12.00	6.00
VD14X6	14.00	6.00
VD14X8	14.00	8.00
VD16X6	16.00	6.00
VD16X8	16.00	8.00
VD16X10	16.00	10.00


92VHV8X8

VERTICAL FRONT BARS, HORIZONTAL SECOND BARS

- All-steel construction
- Adjustable face bars may be set to any desired deflection
- Opposed blade damper
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 2"

	Dimensions (In.)	
Part No.	W	H
92VHV8X8	8.00	8.00


VH24X16W

VERTICAL FRONT BARS, HORIZONTAL SECOND BARS

- Extruded aluminum
- Two rows of individually adjusted face bars for horizontal and vertical deflection
- Pivoted bars for easy positive setting
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
VH24X16W	24.00	16.00


VHD8X4W

VERTICAL FRONT BARS, HORIZONTAL SECOND BARS, WITH DAMPER

- Extruded aluminum
- Two rows of individually adjusted face bars for horizontal and vertical deflection
- Pivoted bars for easy positive setting
- Opposed blade damper
- Bright white enamel finish
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
VHD8X4W	8.00	4.00
VHD8X6W	8.00	6.00
VHD10X6W	10.00	6.00
VHD10X8W	10.00	8.00
VHD12X6W	12.00	6.00
VHD12X8W	12.00	8.00
VHD12X10W	12.00	10.00
VHD14X6W	14.00	6.00
VHD14X8W	14.00	8.00
VHD14X10W	14.00	10.00
VHD16X6W	16.00	6.00
VHD16X8W	16.00	8.00

Continued on next page

SUPPLY REGISTER

	Dimensions (In.)	
Part No.	W	H
VHD18X6W	18.00	6.00
VHD20X6W	20.00	6.00
VHD20X8W	20.00	8.00
VHD20X10W	20.00	10.00
VHD24X6W	24.00	6.00
VHD24X8W	24.00	8.00
VHD24X10W	24.00	10.00



821W8X4

VERTICAL FACE BARS, HORIZONTAL VALVE BLADES

- All-steel construction
- Adjustable face bars
- Adjustable multi-shutter valve
- Equipped with gasket
- Bright White enamel finish
- Overall dimension: listed size + 2"

	Dimensions (In.)	
Part No.	W	H
821W8X4	8.00	4.00
821W8X6	8.00	6.00
821W10X4	10.00	4.00
821W10X6	10.00	6.00
821W10X8	10.00	8.00
821W10X10	10.00	10.00
821W12X4	12.00	4.00
821W12X6	12.00	6.00
821W12X8	12.00	8.00
821W12X10	12.00	10.00
821W14X4	14.00	4.00
821W14X6	14.00	6.00
821W14X8	14.00	8.00
821W14X14	14.00	14.00
821W16X6	16.00	6.00
821W16X8	16.00	8.00
821W16X10	16.00	10.00
821W16X16	16.00	16.00
821W18X6	18.00	6.00
821W20X4	20.00	4.00
821W18X8	18.00	8.00
821W18X18	18.00	18.00
821W20X6	20.00	6.00
821W20X8	20.00	8.00
821W20X10	20.00	10.00
821W20X20	20.00	20.00
821W24X4	24.00	4.00
821W24X6	24.00	6.00
821W24X8	24.00	8.00
821W24X10	24.00	10.00
821W24X12	24.00	12.00

Continued on next page

	Dimensions (In.)	
Part No.	W	H
821W30X6	30.00	6.00
821W30X8	30.00	8.00
821W30X12	30.00	12.00

RETURN GRILL



RH45W6X6

HORIZONTAL BARS AT 45°

- Extruded aluminum
- Face bars permanently fixed into heavy aluminum frames at 45° angle
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
RH45W6X6	6.00	6.00
RH45W8X8	8.00	8.00
RH45W10X10	10.00	10.00
RH45W12X12	12.00	12.00
RH45W14X14	14.00	14.00
RH45W16X16	16.00	16.00
RH45W20X20	20.00	20.00



RHD458X8W

HORIZONTAL BARS AT 45°, WITH DAMPER

- Extruded aluminum
- Opposed blade damper
- Face bars permanently fixed into heavy aluminum frames at 45° angle
- Overall dimension: listed size + 1 3/4"

	Dimensions (In.)	
Part No.	W	H
RHD458X8W	8.00	8.00
RHD4510X10W	10.00	10.00
RHD4512X12W	12.00	12.00



94A12X6

- All-steel construction
- Face bars permanently fixed into a heavy steel frame at 40° angle
- Bright White enamel finish
- Overall dimension: listed size + 2"

	Dimensions (In.)	
Part No.	W	H
94A12X6	12.00	6.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

	Dimensions (In.)	
Part No.	W	H
94A14X14	14.00	14.00
94A16X16	16.00	16.00
94A20X20	20.00	20.00
94A24X12	24.00	12.00
94A24X16	24.00	16.00
94A26X20	26.00	20.00
94A30X6	30.00	6.00
94A30X12	30.00	12.00

FILTER GRILL



RHF4510X10

HORIZONTAL BARS AT 45°

- Extruded aluminum
- Hinged on the bottom edge
- Accommodates standard 1" thick filters
- Equipped with thumb slide fasteners
- Satin Anodized finish
- Overall dimension: listed size + 2 1/2"

	Dimensions (In.)	
Part No.	W	H
RHF4510X10	10.00	10.00
RHF4512X12	12.00	12.00
RHF4512X24	12.00	24.00
RHF4514X20	14.00	20.00
RHF4514X25	14.00	25.00
RHF45W16X16[1]	16.00	16.00
RHF45W16X20[1]	16.00	20.00
RHF4518X18	18.00	18.00
RHF4518X24	18.00	24.00
RHF4518X30	18.00	30.00
RHF4520X16	20.00	16.00
RHF4520X20	20.00	20.00
RHF45W24X20[1]	20.00	24.00
RHF4520X25	20.00	25.00
RHF4524X12	24.00	12.00
RHF4524X18	24.00	18.00
RHF4524X24	24.00	24.00
RHF4524X30	24.00	30.00
RHF4525X20	25.00	20.00
RHF4530X24	30.00	24.00
RHF4536X24	36.00	24.00

[1] White



96AFBW20X12

- Steel construction
- Flush, removable face with concealed latches and hinges
- Uses nominal 1" thick disposable filters (not included)
- Equipped with adjustable filter retainers
- 2/3" spaced fins set at 50°
- Bright White finish @
- Overall dimension: listed size +2 5/8"

	Dimensions (In.)	
Part No.	W	H
96AFBW20X12	20.00	12.00
96AFBW20X14	20.00	14.00
96AFBW20X16	20.00	16.00
96AFBW20X20	20.00	20.00
96AFBW24X12	24.00	12.00
96AFBW24X14	24.00	14.00
96AFBW24X16	24.00	16.00
96AFBW25X14	25.00	14.00
96AFBW25X20	25.00	20.00
96AFBW30X14	30.00	14.00
96AFBW30X20	30.00	20.00

TOUCH-UP PAINT



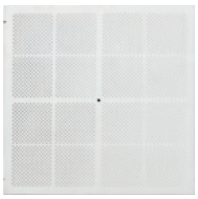
14526

Part No.	Description
14526	Bright White
14522	Golden Sand

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

T-BAR DIFFUSERS

SURFAIREB® DIFFUSER



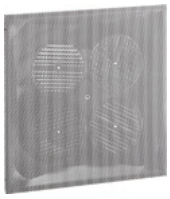
441W

SURFAIRE

- Patented deflector apertures (U.S.Pat. No. 3,948,155)
- Formed galvanized steel back panel
- Fiberglass insulation blanket with aluminum foil vapor barriers to minimize condensation
- Insulation prescored to accommodate collar size desired
- Accepts unique snap-in collar (5400 Series)
- Utilizes butterfly damper (3800 Series) inserted in collar
- Bright White enamel finish
- Four seismic connections (2 on 2 sides)

Part No.	Collar Size (In.)
441W	6.00 - 12.00
442W	6.00 - 12.00
443W	6.00 - 12.00
444W	6.00 - 12.00
445W	6.00 - 12.00

PERFORATED SUPPLY DIFFUSER

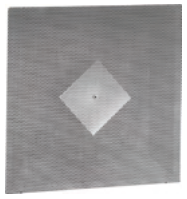


PDSD

STANDARD

- Perforated steel face
- Face adjustable deflectors
- Insulation prescored to accommodate collar size desired
- Accepts unique snap-in collar (5400 Series)
- Utilizes Butterfly damper (3800 Series) inserted in collar
- Damper adjusted thru diffuser face to allow proper air balancing
- Formed steel precoated back panel
- Fiberglass insulation blanket with foil vapor barrier to minimize condensation
- Bright white finish
- 14" fixed collar (PDS(D)14)

Part No.	Description	Collar Size (In.)
PDSD	Adjustable Deflector	6.00 - 12.00
PDSD14	Adjustable Deflector	14.00
PDS	Fixed Deflector	6.00 - 12.00
PDS14	Fixed Deflector	14.00

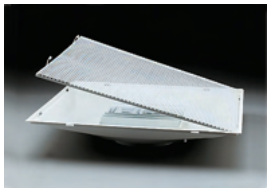


RENP

RENOVATOR

- Renovator model
- One inch molded fiberglass back panel
- Self-insulated to absorb sound
- Bonded foil vapor barrier minimizes condensation
- Deep back cavity provides excellent performance characteristics
- Prescored back-accepts 1" spin in or tab collar allowing neck size and location to be determined at time of installation
- Bright White enamel finish
- RENPSR6 for installations where R6 insulation is required

Part No.	Description
RENP	Perforated Face
RENPS	Perforated Face w/Deflector
RENPSR6	Perforated Face w/Deflector, R6 Insulation



CBPS6

CURVED BLADE

- Steel construction
- Removable hinged face allows for easy access to air pattern control core
- Face can be removed for cleaning
- Deep draw back reduces static pressure drop
- Individually adjustable pattern deflectors factory set at 4-way deflection. Can be field adjusted for 1-, 2-, 3-way air patterns
- Unique 2" high collar permits easy flex connections
- Accepts 3800 Series butterfly damper inserted in collar

Part No.	Collar Size (In.)	Length (In.)	Width (In,)
CBPS6	6.00	6.00	6.00
CBPS8	8.00	8.00	8.00
CBPS10	10.00	10.00	10.00
CBPS12	12.00	12.00	12.00
CBPS14	14.00	14.00	14.00



PD

PERFORATED FACE

Part No.	Length (In.)	Width (In,)
PD	24.00	24.00

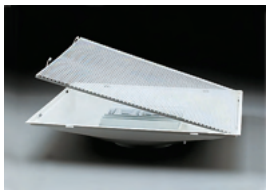
2X4CRATE

EGG CRATE

- Decorative panel for t bar lay in applications

Part No.	Length (In.)	Width (In,)
2X4CRATE	50.00	24.00

PERFORMATED RETURN DIFFUSER



CBPR6

- Steel construction
- Removable hinged face allows for easy access to air pattern control core
- Face can be removed for cleaning
- Deep draw back reduces static pressure drop
- Unique 2" high collar permits easy flex connections
- Accepts 3800 Series butterfly damper inserted in collar

Part No.	Collar Size (In.)
CBPR6	6.00
CBPR8	8.00
CBPR10	10.00
CBPR12	12.00

FILTER GRILL



659T20X20

LANCED FACE, STEEL

- Uses standard 1" filters (not included)
- Bright White finish
- Lanced face design
- Accepts 20" x 20" x 1" filter
- Overall dimension: listed size + 3 3/4"

Part No.	Length (In.)	Width (In,)
659T20X20[1]	20.00	20.00
659TI20X20	20.00	20.00

[1] Open frame back



PFT

PERFORATED FACE, STEEL

- Steel construction
- Removable hinged face
- Uses standard 1" filters (not included)
- Bright White finish
- Perforated face design
- Accepts 20" x 20" x 1" filter
- PFTIR6 for installations where R6 insulation is required

Part No.	Backing
PFT	Open Frame
PFTI	Molded Fiberglass
PFTIR6	Molded Fiberglass, R6 Insulation



RHF45T20X20

LANCED FACE, ALUMINUM

- All-aluminum construction
- Hinged to filter frame
- Equipped with spring slide fasteners
- Used standard 1" filter (not furnished)
- Accepts 20" x 20" x 1" filter

Part No.	Length (In.)	Width (In,)
RHF45T20X20	20.00	20.00



96AFBTI

LANCED FACE, STEEL

Steel fixed bar T-bar filter grille with fiberglass back.

- All steel construction
- Bar style face design
- Flush, removable face with concealed latches and hinges, can be installed in any direction
- Molded fiberglass back
- Accepts standard spin-in collar (5400 series)
- Frame includes four seismic safety connections
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

Part No.	Length (In.)	Width (In,)
96AFBTI	20.00	20.00

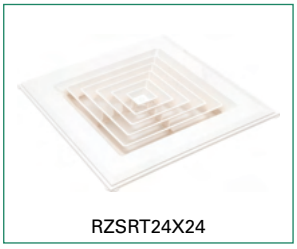
FIXED PATTERN DIFFUSER


RZMCDST

REZZIN™, T-BAR MODULAR

- Engineered polymer construction
- Made from flame-retardant ABS that meets UL 94 V-0 and UL 94-5VA standards for flammability
- Modular cores provide 1-, 2-, 3- or 4- way horizontal air patterns
- Removeable modules provide easy access to accessories
- Available with RZBP back panel, ordered separately
- Bright white finish

Part No.	Description	Size (In.)
RZMCDST	T-Bar Modular Diffuser	6.00 - 16.00
RZBP	Back Panel	24.00 x 24.00


RZSRT24X24

REZZIN™

Whether your preference is for a lightweight plastic composite register or your application demands a heavyweight diffuser to withstand the harshest environment, the Hart & Cooley Rezzin™ line of products is for you. Rezzin™ registers and diffusers are constructed of lightweight polymer materials that maintain the same high quality strength and rigidity. Looks that go beyond the surface. Other than the material, there is no significant difference between the Rezzin™ registers and diffusers and other Hart & Cooley steel or aluminum models. They will deliver the consistently high performance and confidence you expect from Hart & Cooley products.

- Engineered polymer construction
- Made from flame-retardant ABS that meets UL 94 V-0 and UL 94-5VA standards for flammability
- 4-way deflection
- Available with RZSR square-to-round transition, ordered separately
- Bright White finish
- Will accept 3800 series and round dampers

Part No.	Description	Size (In.)
RZSRT24X24	REZZIN™ Lay In Diffuser	24.00 x 24.00
RZSR6	Round Transition	6.00
RZSR8	Round Transition	8.00
RZSR10	Round Transition	10.00
RZSR12	Round Transition	12.00
RZSR14	Round Transition	14.00


FPD06

HIGH VOLUME, STEEL

- Provides high air volume delivery
- 360° air diffusion
- Formed steel back panel, construction
- Multi cone fixed core
- Fixed collar
- Utilizes butterfly damper (3800 Series) inserted in collar
- Damper adjustable through face
- Bright White enamel finish
- R6 models come with R6 insulation

Part No.	Nb. of Cones	Collar Size (In.)	Length (In.)	Width (In,)
FPD06	2	6.00	23.75	23.75
FPD08	2	8.00	23.75	23.75
FPD10	2	10.00	23.75	23.75
FPD12	2	12.00	23.75	23.75
FPD14	2	14.00	23.75	23.75
FPD306	3	6.00	23.75	23.75
FPD308	3	8.00	23.75	23.75
FPD310	3	10.00	23.75	23.75
FPD312	3	12.00	23.75	23.75
FPD314	3	14.00	23.75	23.75
FPD3R606W[1]	3	6.00	6.00	6.00
FPD3R608W[1]	3	8.00	8.00	8.00
FPD3R610W[1]	3	10.00	10.00	10.00
FPD3R612W[1]	3	12.00	12.00	12.00

[1] R6 Insulation


AFPD8W

HIGH VOLUME, ALUMINUM

- 2 cone fixed core
- Bright White enamel finish

Part No.	Collar Size (In.)
AFPD8W	8.00
AFPD10W	10.00
AFPD12W	12.00

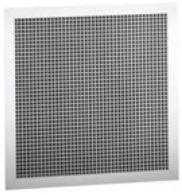
HIGH VOLUME SUPPLY DIFFUSER


HVS14

- Provides high air volume delivery
- 360° air diffusion
- Formed steel back panel
- Fiberglass insulation blanket with foil vapor barrier to minimize condensation
- Insulation prescored to accommodate collar size desired
- Accepts unique snap-in collar (5400 Series)
- Utilizes butterfly damper (3800 Series) inserted in collar
- Bright White enamel finish
- 14" fixed collar HVS14
- HVSR6 features 1" of foil backed molded fiberglass insulation

Part No.	Collar Size (In.)
HVSR6	6.00 - 12.00
HVS14	14.00

RETURN GRILL

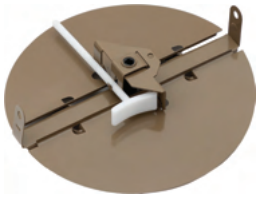

RE5T22X22

FACE ONLY

- Aluminum construction
- Grid core face 1/2" x 1/2" x 1/2"
- Satin Anodized finish
- Overall dimension: listed size plus 1 3/4"

Part No.	Length (In.)	Width (In,)
RE5T22X22	22.00	22.00
RE5T46X22	22.00	46.00

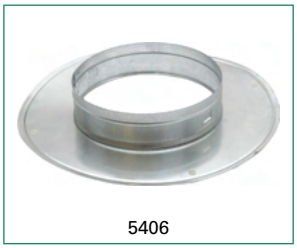
ACCESSORIES


3806GS

DAMPER

- Adjustable butterfly damper with removable handle
- Fits 5400 Series collar

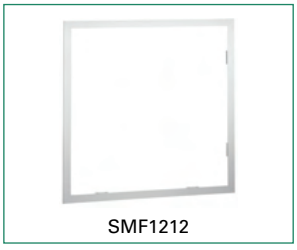
Part No.	Dia. (In.)
3806GS	6.00
3807GS	7.00
3808GS	8.00
3809GS	9.00
3810GS	10.00
3812GS	12.00
3814GS	14.00


5406

COLLAR

- Unique snap-in design for easy installation
- 2" high collar permits easy flex connections
- For molded back Hart and Cooley T-bar diffusers

Part No.	Dia. (In.)
5406	6.00
5407	7.00
5408	8.00
5409	9.00
5410	10.00
5412	12.00
5414	14.00


SMF1212

T-BAR SHEETROCK FRAME

- Aluminum construction
- Permits installation of standard T-Bar diffusers in a plaster ceiling
- Accepts standard T-Bar diffusers
- Bright White finish
- Overall dimension: Listed size plus 2 1/2"

Part No.	Length (In.)	Width (In,)
SMF1212	12.00	12.00
SMF2412	24.00	12.00
SMF2424	24.00	24.00
SMF2448	48.00	24.00

FLEXIBLE GAS VENT

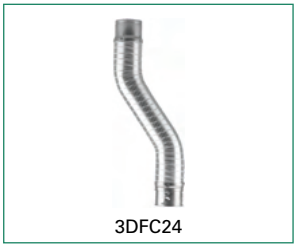
SINGLE WALL

- Features single-wall or double-wall (air-insulated) flexible construction
- Single wall includes an integral appliance draft hood connector for fast installation
- Both require only 1" clearance to combustibles
- Both single and double are UL Listed for use as a connection from an appliance to Type B gas vent
- Double wall also listed as segment of Type B gas vent and can be used in unconditioned spaces (ie attics and crawl spaces)


3SFC12

SINGLE WALL

Part No.	Diameter (In.)	Length (In.)
3SFC12	3.00	12.00
3SFC24	3.00	24.00
3SFC3	3.00	36.00
3SFC4	3.00	48.00
3SFC5	3.00	60.00
4SFC12	4.00	12.00
4SFC24	4.00	24.00
4SFC3	4.00	36.00
4SFC4	4.00	48.00
4SFC5	4.00	60.00
5SFC12	5.00	12.00
5SFC24	5.00	24.00
5SFC3	5.00	36.00
5SFC5	5.00	60.00


3DFC24

DOUBLE WALL

Part No.	Diameter (In.)	Length (In.)
3DFC24	3.00	24.00
3DFC3	3.00	36.00
3DFC4	3.00	48.00
3DFC5	3.00	60.00
4DFC24	4.00	24.00
4DFC3	4.00	36.00
4DFC4	4.00	48.00
4DFC5	4.00	60.00

B VENT


3RP12

FIXED LENGTH PIPE

For negative pressure gas heating flue installations requiring double wall, air insulated vent piping and with flue gas temperatures <550°F. Do not use for incinerators, oil, or multi-fuel appliances. A high temperature insulated product is available for these applications. Low temperature oval pipe and fittings are also available.

****More sizes available on uri.com or at your local branch.****

Part No.	Diameter (In.)	Length (In.)
3RP12	3.00	12.00
4RP3	4.00	36.00
5RP6	5.00	6.00
5RP5	5.00	60.00
6RP12	6.00	12.00
6RP18	6.00	18.00
6RP24	6.00	24.00
7RP18	7.00	18.00
8RP4	8.00	48.00
10RP3	10.00	36.00
12RP24	12.00	24.00


3RPA

ADJUSTABLE LENGTH PIPE

- Overlap = length minus 2"

Part No.	Diameter (In.)	Length (In.)
3RPA	3.00	12.00
4RPA	4.00	12.00
5RPA	5.00	12.00
6RPA	6.00	12.00
7RPA	7.00	18.00
8RPA	8.00	18.00
10RPA	9.00	18.00

45° ELBOW, ADJUSTABLE



7REA45

Part No.	Diameter (In.)
7REA45	7.00
8REA45	8.00

60° ELBOW, ADJUSTABLE



3REA60

Part No.	Diameter (In.)
3REA60	3.00
4REA60	4.00
5REA60	5.00

90° ELBOW, ADJUSTABLE



3REA90

Part No.	Diameter (In.)
3REA90	3.00
4REA90	4.00
5REA90	5.00
6REA90	6.00
6REA60	6.00
7REA90	7.00
8REA90	8.00

INCREASER



3RN4

Part No.	Diameter A (In)	Diameter B (In)
3RN4	3	4
3RN5	3	5
3RN6	3	6
4RN5	4	5
4RN6	4	6
4RN7	4	7
5RN6	5	6
6RN8	6	8

DRAFT HOOD CONNECTOR



3RDH

Part No.	Diameter (In.)	Diameter A (In)	Diameter B (In)
3RDH	3.00	4.5	6
4RDH	4.00	4.5	6
5RDH	5.00	4.5	6
6RDH	6.00	4.5	6
7RDH	7.00	7	8.5
8RDH	8.00	7	8.5
10RDH	10.00	7	8.5
12RDH	12.00	7	8.5

B VENT

TEE


3RT3

Part No.	Diameter Branch (In)	Diameter Run 1 (In)
3RT3	3	3
4RT4	4	4
5RT3	3	5
5RT4	4	5
5RT5	5	5
6RT3	3	6
6RT4	4	6
6RT6	6	6
7RT7	7	7
10RT10	10	10

WYE


4RYF33

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)
4RYF33	3	4	3
4RYF43	3	4	4
4RYF44	4	4	4
5RYF43	3	5	4
5RYF44	4	5	4
5RYF53	3	5	5
5RYF54	4	5	5
6RYF43	3	6	4
6RYF44	4	6	4
6RYF53	3	6	5
6RYF54	4	6	5
6RYF64	4	6	6

TEE CAP


3RTC

Part No.	Diameter (In.)
3RTC	3.00
4RTC	4.00
5RTC	5.00
6RTC	6.00
7RTC	7.00

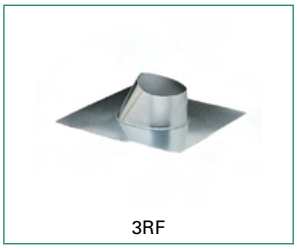
VENT CAP, HIGH WIND


3RHW

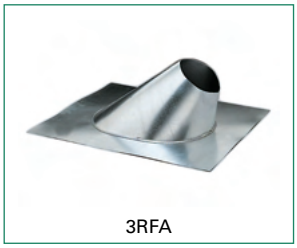
Part No.	Diameter (In.)
3RHW	3.00
4RHW	4.00
5RHW	5.00
6RHW	6.00

ROOF FLASHING, ADJUSTABLE <6/12

- 0/12 to 6/12 pitch


3RF

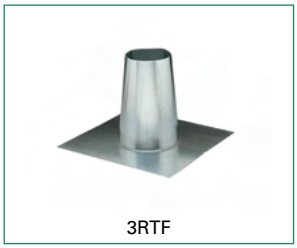
Part No.	Diameter (In.)
3RF	3.00
4RF	4.00
5RF	5.00
6RF	6.00
7RF	7.00
8RF	8.00
10RF	10.00
12RF	12.00


3RFA

ROOF FLASHING, ADJUSTABLE>6/12

- 6/12 to 12/12 pitch

Part No.	Diameter (In.)
3RFA	3.00
4RFA	4.00
5RFA	5.00
6RFA	6.00


3RTF

ROOF FLASHING, TALL

Part No.	Diameter (In.)
3RTF	3.00
4RTF	4.00
5RTF	5.00
6RTF	6.00
7RTF	7.00
8RTF	8.00
10RTF	10.00


3RS

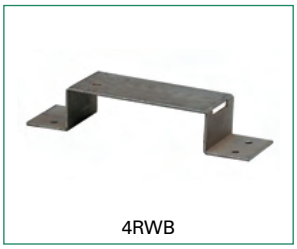
STORM COLLAR

Part No.	Diameter (In.)
3RS	3.00
4RS	4.00
5RS	5.00
6RS	6.00
7RS	7.00
8RS	8.00
10RS	10.00


3RPC

PIPE COLLAR

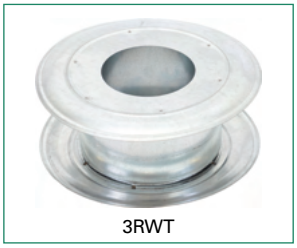
Part No.	Diameter (In.)
3RPC	3.00
4RPC	4.00
5RPC	5.00
6RPC	6.00


4RWB

WALL BRACKET

The diameter indicates the size of the pipe to be used with the bracket.

Part No.	Diameter (In.)
4RWB	4.00
5RWB	5.00
6RWB	6.00


3RWT

WALL THIMBLE

Part No.	Diameter (In.)
3RWT	3.00
4RWT	4.00
5RWT	5.00
6RWT	6.00

POLYPROPYLENE VENTING SYSTEM

INNOFLUE® CENTRIC INCREASER

InnoFlue® is a safe, reliable and environmentally sustainable vent system. It reduces installation time by up to 75%. Most importantly, InnoFlue® was designed as a vent system, not a DWV (drain/waste vent) product.
InnoFlue® is manufactured from environmentally friendly polypropylene. Their polypropylene technology is warranted for sustained flue gases up to 248°F, providing enhanced performance properties when compared to PVC and CPVC technology.
InnoFlue® offers an entire catalog of intuitive venting components such as test ports, condensate drains, siphons, flexible tubing (for vertical venting/using the chimney as a chase) and concentric vent systems.

- ULC-S636 listed to Type BH, Class II A, B & C
- A single, comprehensive product line replaces both PVC and CPVC for all Category II &IV furnace, water heater and boiler installations
- Integrated gasket system allows for immediate use of appliance upon installation and post-installation adjustments
- Side wall direct vent system installs in as little as 15-30 minutes
- Flexible option allows for continuous vertical installations up to 150'
- Gasketed polypropylene allows for faster, cleaner, V.O.C.-free installation with no fit up or primers needed
- Listed at zero clearance to combustibles
- Enhanced corrosion resistance allows for use with oil, propane, and gas fired appliances
- Manufacturer-supported and guaranteed with an unprecedented 10-year warranty


ISIA0203

INNOFLUE® CENTRIC INCREASER

Transitions vent system to a larger diameter. Install in vertical orientation only. Additional configurations available upon request.

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Overall L (In.)	Max. OD (In.)
ISIA0203	2" / 3"	3.5	5.9	3.7
ISIA0405	4" / 5"	4.3	6.8	5.8


ISVL021

INNOFLUE® STRAIGHT VENT LENGTH

Gasketed rigid polypropylene vent lengths with dedicated male and female ends. Male ends can be field cut to length.

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Overall L (In.)	Max. OD (In.)
ISVL021	2	12.0	14.5	3.0
ISVL022	2	24.0	26.5	3.0
ISVL023	2	36.0	38.5	3.0
ISVL026	2	72.0	74.5	3.0
ISVL031	3	12.0	14.5	3.7
ISVL032	3	24.0	26.5	3.7
ISVL033	3	36.0	38.5	3.7
ISVL036	3	72.0	74.5	3.7
ISVL043	4	36.0	38.5	5.1


ISVL022UV

INNOFLUE® VENT LENGTH PPS-UV

Made from black U.V. stabilized polypropylene. PPs-UV Vent Lengths allow for the exterior extension of the vent system

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Overall L (In.)	Max. OD (In.)
ISVL022UV	2	24.0	26.5	3.0


ISELL0245

INNOFLUE® 45° ELBOW, LONG

Longer 45° Elbow allows for greater offsets when changing direction or avoiding obstructions.

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Max. OD (In.)
ISELL0245	2	3.8	3.0
ISELL0345	3	4.6	3.7


ISELL0287

INNOFLUE® 87° ELBOW, LONG

Longer 87° Elbow allows for greater offsets when changing direction or avoiding obstructions.

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Max. OD (In.)
ISELL0287	2	4.8	3.0
ISELL0387	3	5.1	3.7



ISELL0287UV

INNOFLUE® 87° ELBOW, LONG, PPS-UV

Made from black U.V. stabilized polypropylene. For exterior offsets or changes in the direction of the vent system.

Part No.	Nominal Diameter (In.)	Effective Length (In.)	Max. OD (In.)
ISELL0287UV	2	4.8	3.0



ISLPT0202

INNOFLUE® LOW PROFILE WALL TERMINATION

Low Profile Parallel Wall Termination incorporates air intake and exhaust into a single aesthetically pleasing termination. Part is paintable to match exterior of structure. Comes with interior wall plate and bird screen. Exhaust can be extended or re-directed with PPs-UV black elbows or vent lengths. Vent lengths and elbows sold separately.

Part No.	Nominal Diameter (In.)	Overall W (In.)	Overall H (In.)
ISLPT0202	2	13.0	9.1
ISLPT0303	3	13.0	9.1



ISEP02

INNOFLUE® END PIPE PPS-UV

Made from black U.V. stabilized polypropylene. Use where termination is exposed to excessive sunlight.

Part No.	Nominal Diameter (In.)	Overall L (In.)	Max. OD (In.)
ISEP02	2	19.7	3.0
ISEP03	3	19.7	3.7
ISEP04	4	19.7	5.0



IASPP02

INNOFLUE® BIRD SCREEN PPS-UV

Fits inside InnoFlue® SW and Flex end-pipes at terminations.

Part No.	Nominal Diameter (In.)
IASPP02	2
IASPP03	3



IASC02

INNOFLUE® SUPPORT CLAMP

Used as vertical or horizontal support. Space 78" in vertical and 39" in horizontal installations. Overall length can be field shortened.

Part No.	Nominal Diameter (In.)	Overall L (In.)	Base Width (In.)
IASC02	2	5.2	3.2
IASC03	3	8.8	3.2
IASC04	4	10.0	3.2



IAWP02B

INNOFLUE® WALL PLATE ROUND

Used to improve aesthetics and reduce drafts at chimney openings or wall penetrations.

Part No.	Nominal Diameter (In.)
IAWP02B	2
IAWP03B	3
IAWP04B	4



IANS02

INNOFLUE® CONNECTOR RING

Provides reinforcement at joints to support loads of up to 99 lbs. 6" through 12" connector rings are available but not required per UL-1738 and ULC-S636.

Part No.	Nominal Diameter (In.)	OD (In.)
IANS02	2	3.2
IANS03	3	4.1
IANS04	4	5.3



IACE50

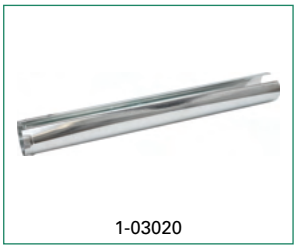
INNOFLUE® CENTROCERIN

A water based lubricant used to ease the assembly of InnoFlue® SW & Flex. Applied to both the gasket and male end.

Part No.	Container Size
IACE50	50 ml

SNAP LOCK PIPE

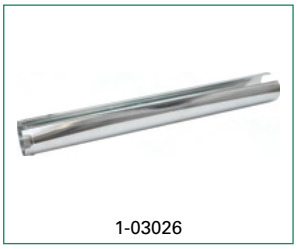
24" LONG, 30 GAUGE



1-03020

Part No.	Diameter (In.)	Box Qty
1-03020	3.00	25
1-04020	4.00	25
1-05020	5.00	25
1-06020	6.00	25
1-07020	7.00	25
1-08020	8.00	25
1-09020	9.00	25
1-12020	12.00	25

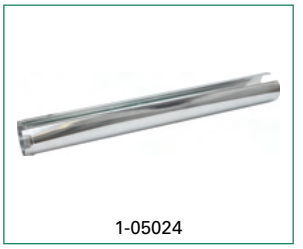
24" LONG, 26 GAUGE



1-03026

Part No.	Diameter (In.)	Box Qty
1-03026	3.00	10
1-04026	4.00	10
1-05026	5.00	10
1-06026	6.00	10
1-07026	7.00	10
1-08026	8.00	10
1-09026	9.00	10
1-10026	10.00	10
1-12026	12.00	10
1-14026	14.00	10
1-16026	16.00	10
1-18026	18.00	10

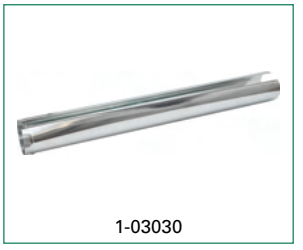
24" LONG, 24 GAUGE



1-05024

Part No.	Diameter (In.)	Box Qty
1-05024	5.00	10
1-06024	6.00	10
1-07024	7.00	10
1-08024	8.00	10
1-09024	9.00	10
1-10024	10.00	10
1-12024	12.00	10
1-14024	14.00	10
1-16024	16.00	10

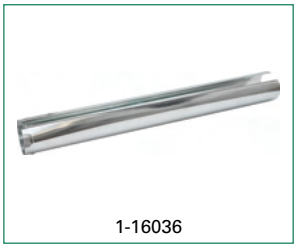
36" LONG, 30 GAUGE



1-03030

Part No.	Diameter (In.)	Box Qty
1-03030	3.00	10

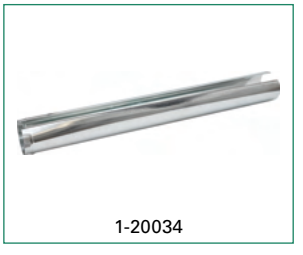
36" LONG, 26 GAUGE



1-16036

Part No.	Diameter (In.)	Box Qty
1-16036	16.00	10
1-18036	18.00	10
1-20036	20.00	10

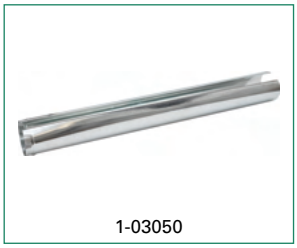
36" LONG, 24 GAUGE



1-20034

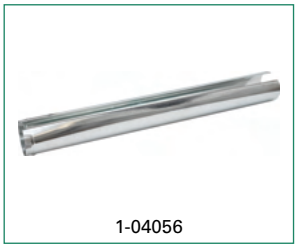
Part No.	Diameter (In.)	Box Qty
1-20034	20.00	10

60" LONG, 30 GAUGE


1-03050

Part No.	Diameter (In.)	Box Qty
1-03050	3.00	10
1-04050	4.00	10
1-05050	5.00	10
1-06050	6.00	10
1-07050	7.00	10
1-08050	8.00	10
1-09050	9.00	10
1-10050	10.00	10
1-12050	12.00	10
1-14050	14.00	10

60" LONG, 26 GAUGE


1-04056

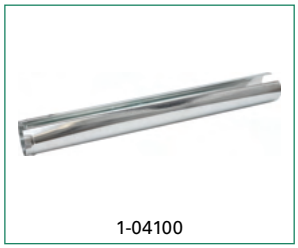
Part No.	Diameter (In.)	Box Qty
1-04056	4.00	10
1-05056	5.00	10
1-06056	6.00	10
1-07056	7.00	10
1-08056	8.00	10
1-09056	9.00	10
1-10056	10.00	10
1-12056	12.00	10
1-14056	14.00	10

60" LONG, 24 GAUGE


1-06054

Part No.	Diameter (In.)	Box Qty
1-06054	6.00	10

120" LONG, 30 GAUGE


1-04100

Part No.	Diameter (In.)	Box Qty
1-04100	4.00	5
1-05100	5.00	5
1-06100	6.00	5
1-07100	7.00	5

BUTTON LOCK PIPE

36" LONG, 30 GAUGE


1-03030BL

Part No.	Diameter (In.)	Box Qty
1-03030BL	3.00	10
1-04030BL	4.00	10
1-05030BL	5.00	10
1-06030BL	6.00	10
1-07030BL	7.00	10
1-08030BL	8.00	10
1-14030BL	14.00	10

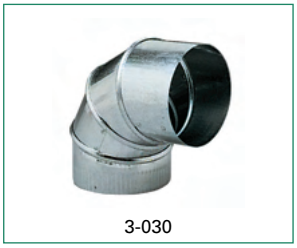
36" LONG, 26 GAUGE


1-09036BL

Part No.	Diameter (In.)	Box Qty
1-09036BL	9.00	10
1-10036BL	10.00	10
1-12036BL	12.00	10

90 ELBOW

30 GAUGE



3-030

Part No.	Diameter (In.)
3-030	3.00
3-040	4.00
3-050	5.00
3-060	6.00
3-070	7.00
3-080	8.00
3-090	9.00
3-100	10.00
3-120	12.00
3-140	14.00
3-160	16.00

28 GAUGE



3-038

Part No.	Diameter (In.)
3-038	3.00
3-128	12.00
3-148	14.00

26 GAUGE



3-036

Part No.	Diameter (In.)
3-036	3.00
3-046	4.00
3-056	5.00
3-066	6.00
3-076	7.00
3-086	8.00
3-096	9.00
3-106	10.00
3-126	12.00
3-146	14.00
3-166	16.00
3-186	18.00
3-206	20.00

24 GAUGE



3-054

Part No.	Diameter (In.)
3-054	5.00
3-064	6.00
3-074	7.00
3-084	8.00
3-094	9.00
3-104	10.00
3-144	14.00
3-184	18.00
3-204	20.00

TEE

WATER HEATER, 90°



420-5439

Part No.	Diameter Run 1 (In)	Diameter Run 2 (In)	Box Qty
420-5439	5	4	12

WYE, WATER HEATER, 45°



421-4334

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)	Box Qty
421-4334	3	4	3	12
421-4434	3	4	4	12
421-5334	3	5	3	12
421-5434	3	5	4	12
421-5444	4	5	4	12
421-5544	4	5	5	12
421-6434	3	6	4	12
421-6444	4	6	4	12
421-6534	3	6	5	12
421-6544	4	6	5	12

FULL FLOW



422-04

Part No.	Diameter (In.)	Box Qty
422-04	4.00	6
422-05	5.00	6
422-06	6.00	6
422-07	7.00	6
422-08	8.00	6
422-10	10.00	3
422-12	12.00	3
422-14	14.00	3

30 GAUGE



6-030

Part No.	Diameter (In.)	Box Qty
6-030	3.00	6
6-040	4.00	6
6-050	5.00	6
6-060	6.00	6

26 GAUGE



6-036

Part No.	Diameter (In.)	Box Qty
6-036	3.00	6
6-046	4.00	6
6-056	5.00	6
6-066	6.00	6
6-076	7.00	6
6-086	8.00	6
6-096	9.00	6
6-106	10.00	3
6-126	12.00	3
6-146	14.00	3
6-166	16.00	3
6-186	18.00	3
6-206	20.00	3

24 GAUGE



6-054

Part No.	Diameter (In.)	Box Qty
6-054	5.00	6
6-064	6.00	6
6-074	7.00	6
6-084	8.00	6

TEE

SWIVEL



ST-543

Part No.	Diameter Run 1 (In)	Diameter Run 2 (In)
ST-543	5	4
ST-643	6	4

WYE

SPLITTER



715-644

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)
715-644	4	6	4
715-655	5	6	5
715-755	5	7	5
715-866	6	8	6
715-766	6	7	6
715-888	8	8	8
715-977	7	9	7
715-1076	6	10	7
715-1077	7	10	7
715-10106	6	10	10
715-10108	8	10	10
715-1085	5	10	8
715-1287	7	12	8
715-121010	10	12	10
715-161414	14	16	14
715-181414	14	18	14
715-181616	16	18	16

BRANCH



720-644

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)	Box Qty
720-644	4	6	4	6
720-755	5	7	5	6
720-866	6	8	6	6
720-888	8	8	8	6
720-977	7	9	7	6
720-1088	8	10	8	6
720-121010	10	12	10	3
720-141212	12	14	12	1

STUB, 30 GAUGE



717-644

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)	Gauge
717-644	4	6	4	30.0
717-866	6	8	6	30.0
717-1088	8	10	8	30.0
717-121010	10	12	10	30.0
717-141212	12	14	12	30.0

AIRFLOW TEE



719-644

Part No.	Diameter Branch (In)	Diameter Run 1 (In)	Diameter Run 2 (In)	Box Qty
719-644	4	6	4	12
719-654	4	6	5	12
719-755	5	7	5	6
719-765	5	7	6	6
719-866	6	8	6	6
719-977	7	9	7	6
719-121010	10	12	10	6

FLAT REDUCER

NO CRIMP



61-43

Part No.	Diameter A (In)	Diameter B (In)	Box Qty
61-43	4.00	3.00	12
61-53	5.00	3.00	12
61-54	5.00	4.00	12
61-63	6.00	3.00	12
61-65	6.00	5.00	12
61-75	7.00	5.00	12
61-76	7.00	6.00	12
61-87	8.00	7.00	12
61-64	6.00	4.00	12

SMALL END CRIMP



63-54

Part No.	Diameter A (In)	Diameter B (In)	Box Qty
63-54	5.00	4.00	12

TAPER REDUCER PATTERN

NO CRIMP, 26 GAUGE

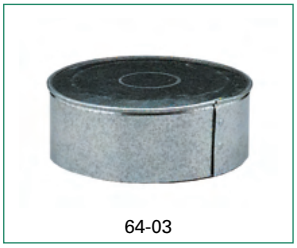


66-43

Part No.	Diameter A (In)	Diameter B (In)	Box Qty
66-43	4.00	3.00	12
66-53	5.00	3.00	12
66-54	5.00	4.00	12
66-63	6.00	3.00	12
66-64	6.00	4.00	12
66-65	6.00	5.00	12
66-73	7.00	3.00	12
66-74	7.00	4.00	12
66-75	7.00	5.00	12
66-76	7.00	6.00	12
66-84	8.00	4.00	12
66-85	8.00	5.00	12
66-86	8.00	6.00	12
66-87	8.00	7.00	12
66-96	9.00	6.00	12
66-97	9.00	7.00	12
66-98	9.00	8.00	12
66-106	10.00	6.00	12
66-107	10.00	7.00	12
66-108	10.00	8.00	12
66-109	10.00	9.00	12
66-126	12.00	6.00	12
66-128	12.00	8.00	12
66-129	12.00	9.00	12
66-1210	12.00	10.00	12
66-148	14.00	8.00	6
66-1410	14.00	10.00	12
66-1412	14.00	12.00	12
66-1612	16.00	12.00	6
66-1614	16.00	14.00	12
66-1814	18.00	14.00	6
66-1816	18.00	16.00	6
66-2018	20.00	18.00	6

END CAP

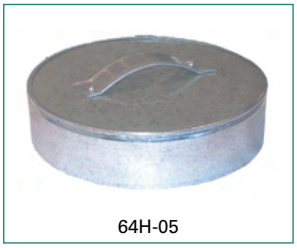
LESS HANDLE, NO CRIMP



64-03

Part No.	Diameter (In.)	Box Qty
64-03	3.00	12
64-04	4.00	12
64-05	5.00	12
64-06	6.00	12
64-07	7.00	12
64-08	8.00	12
64-09	9.00	12
64-10	10.00	12
64-12	12.00	12
64-14	14.00	12
64-16	16.00	12

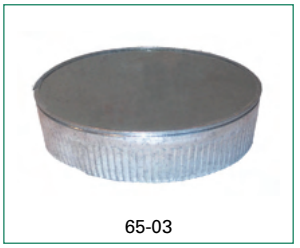
WITH HANDLE, NO CRIMP



64H-05

Part No.	Diameter (In.)	Box Qty
64H-05	5.00	12
64H-06	6.00	12
64H-07	7.00	12
64H-08	8.00	12
64H-09	9.00	12
64H-10	10.00	12
64H-12	12.00	12

LESS HANDLE, WITH CRIMP



65-03

Part No.	Diameter (In.)	Box Qty
65-03	3.00	12
65-04	4.00	12
65-05	5.00	12

SIDE TAKEOFF

SIDE TAKEOFF



T19-5

Part No.	Diameter (In.)	Box Qty
T19-5	5.00	12
T19-6	6.00	12
T19-7	7.00	12
T19-8	8.00	12

CRIMP, WITH 1/2" FLANGE, SHORT



T255-6

Part No.	Diameter (In.)	Box Qty
T255-6	6.00	12
T255-7	7.00	12
T255-8	8.00	12
T255-10	10.00	12
T255-12	12.00	12
T255-14	14.00	12
T255-16	16.00	12


T275-6

CRIMP, WITH 1/2" FLANGE, LONG

Part No.	Diameter (In.)	Box Qty
T275-6	6.00	12
T275-7	7.00	12
T275-8	8.00	12
T275-10	10.00	12
T275-12	12.00	12
T275-14	14.00	12
T275-16	16.00	12

TAB COLLAR


T24-7

CRIMP

Part No.	Diameter (In.)	Box Qty
T24-7	7.00	12


T25-3

CRIMP

Part No.	Diameter (In.)	Box Qty
T25-3	3.00	12
T25-4	4.00	12
T25-5	5.00	12
T25-6	6.00	12
T25-7	7.00	12
T25-8	8.00	12
T25-9	9.00	12
T25-10	10.00	12
T25-12	12.00	12
T25-14	14.00	12
T25-16	16.00	12
T25-18	18.00	12
T25-20	20.00	12


T26-3

NO CRIMP

Part No.	Diameter (In.)	Box Qty
T26-3	3.00	12
T26-4	4.00	12
T26-5	5.00	12
T26-6	6.00	12
T26-7	7.00	12
T26-8	8.00	12
T26-9	9.00	12
T26-10	10.00	12
T26-12	12.00	12
T26-14	14.00	12
T26-16	16.00	12


T27-4

LONG

Part No.	Diameter (In.)	Box Qty
T27-4	4.00	12
T27-5	5.00	12
T27-6	6.00	12
T27-7	7.00	12
T27-8	8.00	12
T27-9	9.00	12
T27-10	10.00	12
T27-12	12.00	12
T27-14	14.00	12
T27-16	16.00	12
T27-18	18.00	12
T27-20	20.00	12

TAB COLLAR

KNOCKDOWN, LONG



T27-4KD

Part No.	Diameter (In.)	Box Qty
T27-4KD	4.00	12
T27-5KD	5.00	12
T27-6KD	6.00	12
T27-7KD	7.00	12
T27-8KD	8.00	12
T27-9KD	9.00	12
T27-10KD	10.00	12
T27-12KD	12.00	12
T27-14KD	14.00	12
T27-16KD	16.00	12
T27-18KD	18.00	12
T27-20KD	20.00	12

DAMPER, LONG



T27-5D

Part No.	Diameter (In.)	Box Qty
T27-5D	5.00	12
T27-6D	6.00	12
T27-7D	7.00	12
T27-8D	8.00	12
T27-9D	9.00	12
T27-10D	10.00	12
T27-12D	12.00	12
T27-14D	14.00	12
T27-16D	16.00	6

SPIN COLLAR

PLAIN



94-07

Part No.	Diameter (In.)	Box Qty
94-07	7.00	12
94-10	10.00	12
94-12	12.00	12

SCOOP & DAMPER



97-06

Part No.	Diameter (In.)	Box Qty
97-06	6.00	12
97-08	8.00	12
97-10	10.00	12

TOP TAKEOFF

RECTANGULAR, ROUND



T10-5

Part No.	Diameter (In.)	Box Qty
T10-5	5.00	12
T10-6	6.00	12
T10-7	7.00	12
T10-8	8.00	12
T10-10	10.00	12

ZERO RISE


T15-6

Part No.	Diameter (In.)	Box Qty
T15-6	6.00	12

1 1/4" RISE


T16-5

Part No.	Diameter (In.)	Box Qty
T16-5	5.00	12
T16-6	6.00	12
T16-7	7.00	12
T16-8	8.00	12

HALF TAB, ELBOW


T5-6

Part No.	Diameter (In.)	Box Qty
T5-6	6.00	12
T5-7	7.00	12

FULL TAB, ELBOW


T7-5

Part No.	Diameter (In.)	Box Qty
T7-5	5.00	12
T7-6	6.00	12
T7-7	7.00	12
T7-8	8.00	12

ADJUSTABLE PIVOT


S5-6

Part No.	Diameter (In.)	Box Qty
S5-6	6.00	12
S5-7	7.00	12
S5-5	5.00	12

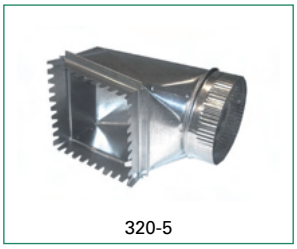
ELBOW


TE-7

Part No.	Diameter (In.)	Box Qty
TE-7	7.00	12

DUCTBOARD TOP TAKEOFF

TAB


320-5

Part No.	Diameter (In.)	Box Qty
320-5	5.00	12
320-6	6.00	12
320-7	7.00	12
320-8	8.00	12

DUCTBOARD TOP TAKEOFF

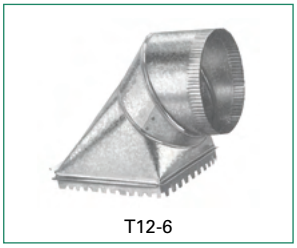
LONG TAB



320L-6

Part No.	Diameter (In.)	Box Qty
320L-6	6.00	12

ADJUSTABLE



T12-6

Part No.	Diameter (In.)	Box Qty
T12-6	6.00	12
T12-7	7.00	12

DUCTBOARD SIDE TAKEOFF

TAB COLLAR



89-04

Part No.	Diameter (In.)	Box Qty
89-04	4.00	12
89-05	5.00	12
89-06	6.00	12
89-07	7.00	12
89-08	8.00	12
89-09	9.00	12
89-10	10.00	12
89-12	12.00	12
89-14	14.00	12
89-16	16.00	12
89-18	18.00	12
89-20	20.00	6

TAB COLLAR, DAMPER



89-05D

Part No.	Diameter (In.)	Box Qty
89-05D	5.00	12
89-06D	6.00	12
89-07D	7.00	12
89-08D	8.00	12
89-09D	9.00	12
89-10D	10.00	12
89-12D	12.00	12
89-14D	14.00	6
89-16D	16.00	6

SPIN COLLAR



90-04

Part No.	Diameter (In.)	Box Qty
90-04	4.00	12
90-05	5.00	12
90-06	6.00	12
90-07	7.00	12
90-08	8.00	12
90-10	10.00	3
90-12	12.00	3
90-16	16.00	3

SPIN COLLAR, DAMPER



91-07

Part No.	Diameter (In.)	Box Qty
91-07	7.00	12
91-08	8.00	12
91-09	9.00	3
91-10	10.00	3
91-12	12.00	3

SPIN COLLAR, SCOOP


92-06

Part No.	Diameter (In.)	Box Qty
92-06	6.00	12
92-07	7.00	12
92-08	8.00	12
92-10	10.00	3
92-14	14.00	3

SPIN COLLAR, SCOOP & DAMPER


93-07

Part No.	Diameter (In.)	Box Qty
93-07	7.00	12
93-10	10.00	3

ADHESIVE TOP TAKEOFF

ADJUSTABLE


34AT-5

Part No.	Diameter (In.)	Box Qty
34AT-5	5.00	12
34AT-6	6.00	12
34AT-7	7.00	12
34AT-8	8.00	12

STANDARD


39AT-5

Part No.	Diameter (In.)	Box Qty
39AT-5	5.00	12
39AT-6	6.00	12
39AT-7	7.00	12
39AT-8	8.00	12

DAMPER


39ATD-5

Part No.	Diameter (In.)	Box Qty
39ATD-5	5.00	12
39ATD-6	6.00	12
39ATD-7	7.00	12
39ATD-8	8.00	12

ADHESIVE SIDE TAKEOFF

FLAT TO ROUND


167-6

Part No.	Diameter (In.)	Box Qty
167-6	6.00	12
167-7	7.00	12
167-8	8.00	12
167-10	10.00	12
167-12	12.00	12
167-14	14.00	12

ADHESIVE SIDE TAKEOFF

FLAT TO ROUND, DAMPER


168-5

Part No.	Diameter (In.)	Box Qty
168-5	5.00	12
168-6	6.00	12
168-7	7.00	12
168-8	8.00	12
168-10	10.00	12
168-12	12.00	6
168-14	14.00	6

FLAT TO ROUND, SCOOP & DAMPER


170-4

Part No.	Diameter (In.)	Box Qty
170-4	4.00	12
170-5	5.00	12
170-6	6.00	12
170-7	7.00	12
170-8	8.00	12
170-9	9.00	12
170-10	10.00	12
170-12	12.00	6
170-14	14.00	2
170-16	16.00	2

ROUND TO ROUND


171-4

Part No.	Diameter (In.)	Box Qty
171-4	4.00	12
171-5	5.00	12
171-6	6.00	12
171-7	7.00	12
171-8	8.00	12
171-10	10.00	12
171-12	12.00	6
171-14	14.00	6
171-16	16.00	6

ROUND TO ROUND, SCOOP


172-6

Part No.	Diameter (In.)	Box Qty
172-6	6.00	12
172-8	8.00	12

ROUND TO ROUND, DAMPER


173-5

Part No.	Diameter (In.)	Box Qty
173-5	5.00	12
173-6	6.00	12
173-7	7.00	12
173-8	8.00	12
173-10	10.00	12
173-12	12.00	6

ROUND TO ROUND, SCOOP & DAMPER



174-5

Part No.	Diameter (In.)	Box Qty
174-5	5.00	12
174-6	6.00	12
174-7	7.00	12
174-8	8.00	12
174-9	9.00	12
174-12	12.00	6
174-14	14.00	6

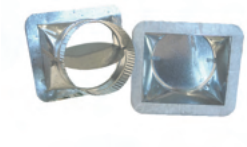
SQUARE TO ROUND



175-5

Part No.	Diameter (In.)	Box Qty
175-5	5.00	12
175-6	6.00	12
175-7	7.00	12
175-8	8.00	6
175-10	10.00	6

SQUARE TO ROUND, DAMPER



176-5

Part No.	Diameter (In.)	Box Qty
176-5	5.00	12
176-6	6.00	12
176-7	7.00	12
176-8	8.00	6
176-10	10.00	4

REGISTER BOOT, 90 DEGREE

STANDARD



P13-204

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P13-204	2 1/4	10.00	4.00	12
P13-205	2 1/4	10.00	5.00	12
P13-206	2 1/4	10.00	6.00	12
P13-224	2 1/4	12.00	4.00	12
P13-225	2 1/4	12.00	5.00	12
P13-226	2 1/4	12.00	6.00	12
P13-227	2 1/4	12.00	7.00	12
P13-247	2 1/4	14.00	7.00	12
P13-248	2 1/4	14.00	8.00	12
P13-326	3 1/4	12.00	6.00	12
P13-327	3 1/4	12.00	7.00	12
P13-404	4.00	10.00	4.00	12
P13-405	4.00	10.00	5.00	12
P13-406	4.00	10.00	6.00	12
P13-407	4.00	10.00	7.00	12
P13-408	4.00	10.00	8.00	12
P13-425	4.00	12.00	5.00	12
P13-426	4.00	12.00	6.00	12
P13-427	4.00	12.00	7.00	12
P13-428	4.00	12.00	8.00	12
P13-446	4.00	14.00	6.00	12
P13-447	4.00	14.00	7.00	12
P13-448	4.00	14.00	8.00	12
P13-606	6.00	10.00	6.00	12
P13-607	6.00	10.00	7.00	12
P13-608	6.00	10.00	8.00	12
P13-626	6.00	12.00	6.00	12
P13-627	6.00	12.00	7.00	12
P13-628	6.00	12.00	8.00	12
P13-646	6.00	14.00	6.00	12
P13-647	6.00	14.00	7.00	12
P13-648	6.00	14.00	8.00	12

REGISTER BOOT, 90 DEGREE

EXTENSION



P13-4046

Part No.	Width (In.)	Length (In.)	Round (In.)	Extension (In.)	Box Qty
P13-4046	4.00	10.00	4.00	6	12
P13-6466	6.00	14.00	6.00	6	12

REGISTER BOOT, END, CENTER

STANDARD



P17C-204

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P17C-204	2 1/4	10.00	4.00	12
P17C-205	2 1/4	10.00	5.00	12
P17C-206	2 1/4	10.00	6.00	12
P17C-225	2 1/4	12.00	5.00	12
P17C-226	2 1/4	12.00	6.00	12
P17C-227	2 1/4	12.00	7.00	12
P17C-247	2 1/4	14.00	7.00	12
P17C-248	2 1/4	14.00	8.00	12
P17C-306	3 1/4	10.00	6.00	12
P17C-326	3 1/4	12.00	6.00	12
P17C-404	4.00	10.00	4.00	12
P17C-405	4.00	10.00	5.00	12
P17C-406	4.00	10.00	6.00	12
P17C-407	4.00	10.00	7.00	12
P17C-408	4.00	10.00	8.00	12
P17C-425	4.00	12.00	5.00	12
P17C-426	4.00	12.00	6.00	12
P17C-427	4.00	12.00	7.00	12
P17C-428	4.00	12.00	8.00	12
P17C-446	4.00	14.00	6.00	12
P17C-447	4.00	14.00	7.00	12
P17C-448	4.00	14.00	8.00	12
P17C-606	6.00	10.00	6.00	12
P17C-607	6.00	10.00	7.00	12
P17C-608	6.00	10.00	8.00	12
P17C-626	6.00	12.00	6.00	12
P17C-627	6.00	12.00	7.00	12
P17C-628	6.00	12.00	8.00	12
P17C-646	6.00	14.00	6.00	12
P17C-647	6.00	14.00	7.00	12
P17C-648	6.00	14.00	8.00	12

REGISTER BOOT, END, LEFT

STANDARD



P17L-224

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P17L-224	2 1/4	12.00	4.00	12
P17L-225	2 1/4	12.00	5.00	12
P17L-226	2 1/4	12.00	6.00	12
P17L-227	2 1/4	12.00	7.00	12
P17L-246	2 1/4	14.00	6.00	12
P17L-406	4.00	10.00	6.00	12
P17L-407	4.00	10.00	7.00	12
P17L-426	4.00	12.00	6.00	12
P17L-427	4.00	12.00	7.00	12

REGISTER BOOT, END, RIGHT



P17R-225

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P17R-225	2 1/4	12.00	5.00	12
P17R-226	2 1/4	12.00	6.00	12
P17R-406	4.00	10.00	6.00	12
P17R-426	4.00	12.00	6.00	12

REGISTER BOOT, STRAIGHT BACK

STANDARD



P5-204

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P5-204	2 1/4	10.00	4.00	12
P5-205	2 1/4	10.00	5.00	12
P5-206	2 1/4	10.00	6.00	12
P5-224	2 1/4	12.00	4.00	12
P5-225	2 1/4	12.00	5.00	12
P5-226	2 1/4	12.00	6.00	12
P5-227	2 1/4	12.00	7.00	12
P5-246	2 1/4	14.00	6.00	12
P5-247	2 1/4	14.00	7.00	12
P5-306	3 1/4	10.00	6.00	12
P5-484	4.00	8.00	4.00	12
P5-486	4.00	8.00	6.00	12
P5-404	4.00	10.00	4.00	12
P5-405	4.00	10.00	5.00	12
P5-406	4.00	10.00	6.00	12
P5-407	4.00	10.00	7.00	12
P5-408	4.00	10.00	8.00	12
P5-425	4.00	12.00	5.00	12
P5-426	4.00	12.00	6.00	12
P5-427	4.00	12.00	7.00	12
P5-428	4.00	12.00	8.00	12
P5-446	4.00	14.00	6.00	12
P5-447	4.00	14.00	7.00	12
P5-448	4.00	14.00	8.00	12
P5-606	6.00	10.00	6.00	12
P5-607	6.00	10.00	7.00	12
P5-608	6.00	10.00	8.00	12
P5-626	6.00	12.00	6.00	12
P5-627	6.00	12.00	7.00	12
P5-628	6.00	12.00	8.00	12
P5-646	6.00	14.00	6.00	12
P5-647	6.00	14.00	7.00	12
P5-648	6.00	14.00	8.00	12
P5-6410	6.00	14.00	10.00	12

CALIFORNIA



P5-606PR

Part No.	Width (In.)	Length (In.)	Round (In.)	6" Extension	Plaster Round
P5-606PR	6.00	10.00	6.00	No	Yes

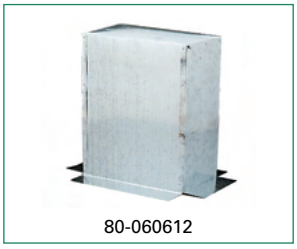
REGISTER BOOT, 45 DEGREE



P7-226

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
P7-226	2 1/4	12.00	6.00	12
P7-406	4.00	10.00	6.00	12
P7-606	6.00	10.00	6.00	12

FLOOR BOX, BLIND



80-060612

Part No.	Width (In.)	Height (In.)	Length (In.)	Box Qty
80-060612	6.00	12.00	6.00	12
80-0610	6.00	12.00	10.00	12
80-061206	6.00	6.00	12.00	12
80-0612	6.00	12.00	12.00	12
80-080812	8.00	12.00	8.00	12
80-101012	10.00	12.00	10.00	12
80-1212	12.00	12.00	12.00	12

FUNNEL REGISTER BOX

RECTANGULAR



82-060606

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
82-060606	6.00	6.00	6.00	12
82-080806	8.00	8.00	6.00	12
82-080808	8.00	8.00	8.00	12
82-101008	10.00	10.00	8.00	12
82-101010	10.00	10.00	10.00	12
82-121208	12.00	12.00	8.00	12
82-121210	12.00	12.00	10.00	12
82-141214	14.00	14.00	12.00	12
82-141216	14.00	12.00	16.00	12
82-141412	14.00	14.00	12.00	12
82-202014	20.00	20.00	14.00	6
82-202016	20.00	20.00	16.00	1

B BOX

RECTANGULAR WITH TABS

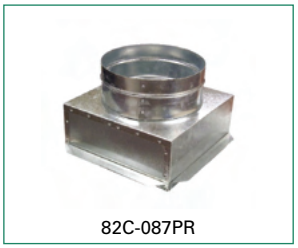


82B-4146

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
82B-4146	4.00	14.00	6.00	12
82B-6106	6.00	10.00	6.00	12

C BOX

PLASTER ROUND-CALIFORNIA



82C-087PR

Part No.	Width (In.)	Length (In.)	Round (In.)
82C-087PR	8.00	8.00	7.00
82C-086PR	8.00	8.00	6.00
82C-1008PR	10.00	10.00	8.00
82C-1010PR	10.00	10.00	10.00
82C-1210PR	12.00	12.00	10.00
82C-1412PR	14.00	14.00	12.00
82C-2014PR	20.00	20.00	14.00
82C-2016PR	20.00	20.00	16.00

SQUARE WITH PLASTER TAB



82C-065

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
82C-065	6.00	6.00	5.00	12

CEILING DIFFUSER BOX

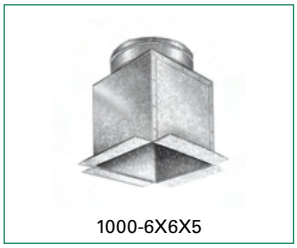
ROUND TO ROUND, STRAIGHT



916-608

Part No.	Diffuser (In.)	Collar Size (In.)	Box Qty
916-608	8	8.00	6

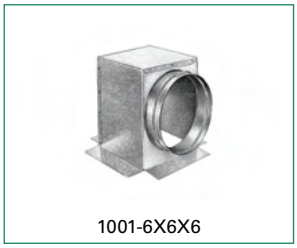
SQUARE TO ROUND, STRAIGHT



1000-6X6X5

	Dimensions (In.)		
Part No.	W	L	Diffuser (In.)
1000-6X6X5	6.00	6.00	6
1000-6X6X6	6.00	6.00	6
1000-8X8X6	8.00	8.00	8
1000-8X8X7	8.00	8.00	8
1000-8X8X8	8.00	8.00	8
1000-10X10X8	10.00	10.00	10
1000-10X10X10	10.00	10.00	10
1000-12X12X10	12.00	12.00	12
1000-12X12X12	12.00	12.00	12

SQUARE TO ROUND, 90°



1001-6X6X6

	Dimensions (In.)		
Part No.	W	L	Diffuser (In.)
1001-6X6X6	6.00	6.00	6
1001-8X8X6	8.00	8.00	8
1001-8X8X8	8.00	8.00	8

INSULATED BOX

TOP OPEN



501-845

Part No.	Width (In.)	Length (In.)	Round (In.)
501-845	8.00	4.00	5.00
501-1066	10.00	6.00	6.00
501-10108	10.00	10.00	8.00
501-1267	12.00	6.00	7.00
501-1268	12.00	6.00	8.00

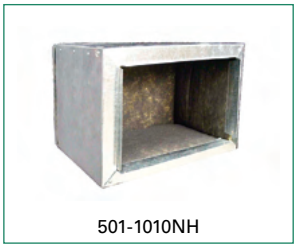
SIDE OPEN



501-845ST

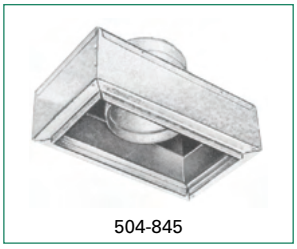
Part No.	Width (In.)	Length (In.)	Round (In.)
501-845ST	8.00	4.00	5.00
501-1267ST	12.00	6.00	7.00

BLIND



501-1010NH

Part No.	Width (In.)	Length (In.)
501-1010NH	10.00	10.00

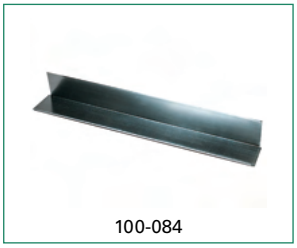


504-845

Part No.	Width (In.)	Length (In.)	Round (In.)
504-845	8.00	4.00	5.00
504-1066	10.00	6.00	6.00
504-1266	12.00	6.00	6.00
504-1267	12.00	6.00	7.00

SLIP & DRIVE TRUNK

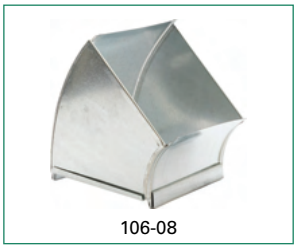
TRUNK DUCT



100-084

	Dimensions (In.)			
Part No.	W	L	Joint L	Box Qty
100-084	8.00	8.00	48	6
100-085	8.00	8.00	60	5
100-104	8.00	10.00	48	6
100-105	8.00	10.00	60	5
100-124	8.00	12.00	48	6
100-125	8.00	12.00	60	5
100-144	8.00	14.00	48	6
100-145	8.00	14.00	60	5
100-164	8.00	16.00	48	6
100-165	8.00	16.00	60	5
100-184	8.00	18.00	48	6
100-185	8.00	18.00	60	5
100-204	8.00	20.00	48	6
100-205	8.00	20.00	60	5
100-224	8.00	22.00	48	6
100-225	8.00	22.00	60	5
100-244	8.00	24.00	48	6
100-245	8.00	24.00	60	5
100-2504	10.00	25.00	48	n/a
100-263	8.00	26.00	36	6
100-264	8.00	26.00	48	6
100-265	8.00	26.00	60	5
100-283	8.00	28.00	36	6
100-284	8.00	28.00	48	6
100-285	8.00	28.00	60	5
100-303	8.00	30.00	36	6
100-304	8.00	30.00	48	6
100-305	8.00	30.00	60	5

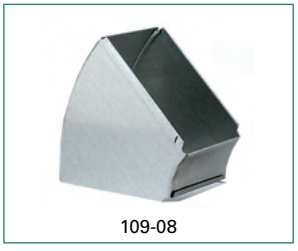
ANGLE, 45°, SHORTWAY



106-08

	Dimensions (In.)		
Part No.	W	H	Box Qty
106-08	8.00	8.00	6
106-10	10.00	8.00	6
106-12	12.00	8.00	6
106-14	14.00	8.00	6
106-16	16.00	8.00	6
106-18	18.00	8.00	6
106-20	20.00	8.00	6
106-2010	20.00	10.00	n/a
106-24	24.00	8.00	6
106-2510	25.00	10.00	n/a
106-26	26.00	8.00	6
106-28	28.00	8.00	n/a
106-30	30.00	8.00	n/a
106-3010	30.00	10.00	n/a

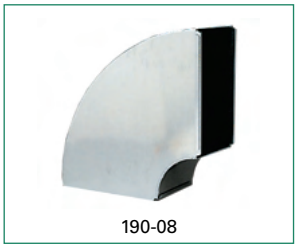
ANGLE, 45°, BROADWAY



109-08

	Dimensions (In.)		
Part No.	W	H	Box Qty
109-08	8.00	8.00	6
109-10	10.00	8.00	6
109-12	12.00	8.00	6
109-14	14.00	8.00	6
109-16	16.00	8.00	6
109-18	18.00	8.00	6
109-20	20.00	8.00	6
109-2010	20.00	10.00	n/a
109-22	22.00	8.00	6
109-24	24.00	8.00	6
109-2510	25.00	10.00	n/a
109-26	26.00	8.00	6
109-3010	30.00	10.00	n/a

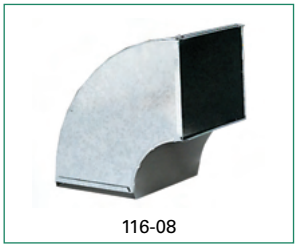
ANGLE, 90°, BROADWAY



190-08

	Dimensions (In.)		
Part No.	W	H	Box Qty
190-08	8.00	8.00	6
190-10	10.00	8.00	6
190-12	12.00	8.00	6
190-14	14.00	8.00	3
190-16	16.00	8.00	3
190-18	18.00	8.00	3
190-20	20.00	8.00	3
190-2010	20.00	10.00	n/a
190-22	22.00	8.00	3
190-24	24.00	8.00	3
190-2510	25.00	10.00	n/a
190-26	26.00	8.00	n/a
190-28	28.00	8.00	n/a
190-30	30.00	8.00	n/a
190-3010	30.00	10.00	n/a

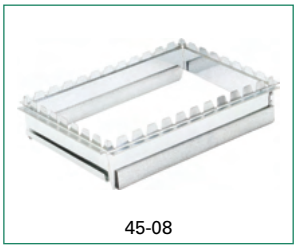
ANGLE, 90°, SHORTWAY



116-08

	Dimensions (In.)		
Part No.	W	H	Box Qty
116-08	8.00	8.00	6
116-10	10.00	8.00	6
116-12	12.00	8.00	6
116-14	14.00	8.00	6
116-16	16.00	8.00	6
116-18	18.00	8.00	6
116-20	20.00	8.00	6
116-2010	20.00	10.00	n/a
116-22	22.00	8.00	3
116-24	24.00	8.00	3
116-2510	25.00	10.00	n/a
116-26	26.00	8.00	n/a
116-28	28.00	8.00	n/a
116-30	30.00	8.00	n/a
116-3010	30.00	10.00	n/a

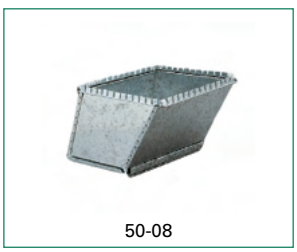
START COLLAR, STRAIGHT



45-08

	Dimensions (In.)		
Part No.	W	L	Box Qty
45-08	8.00	8.00	6
45-10	8.00	10.00	6
45-12	8.00	12.00	6
45-14	8.00	14.00	6
45-16	8.00	16.00	6
45-18	8.00	18.00	6
45-20	8.00	20.00	6
45-22	8.00	22.00	6
45-24	8.00	24.00	6
45-2410	10.00	24.00	n/a
45-2510	10.00	25.00	n/a
45-26	8.00	26.00	6
45-28	8.00	28.00	6
45-30	8.00	30.00	6
45-3010	10.00	30.00	n/a

START COLLAR, OFFSET

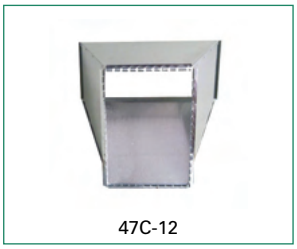


50-08

	Dimensions (In.)		
Part No.	W	L	Box Qty
50-08	8.00	8.00	6
50-10	8.00	10.00	6
50-12	8.00	12.00	6
50-14	8.00	14.00	6
50-16	8.00	16.00	6
50-18	8.00	18.00	6
50-20	8.00	20.00	6
50-22	8.00	22.00	6
50-26	8.00	26.00	4
50-28	8.00	28.00	4
50-30	8.00	30.00	4

SLIP & DRIVE TRUNK

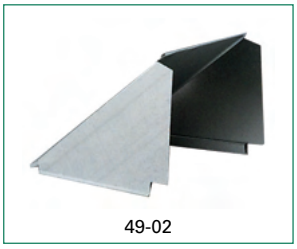
TRANSITION, CENTER 2" RISE



47C-12

	Dimensions (In.)				
Part No.	W	W	L	L	Box Qty
47C-12	8.00	10	12.00	12.0	3
47C-14	8.00	10	14.00	12.0	3
47C-16	8.00	10	16.00	13.0	3
47C-18	8.00	10	18.00	15.0	3
47C-20	8.00	10	20.00	18.0	3
47C-24	8.00	10	24.00	20.0	3
47C-26	8.00	10	26.00	22.0	3
47C-28	8.00	10	28.00	24.0	1
47C-30	8.00	12	30.00	24.0	3
47C-22	8.00	10	22.00	18.0	3

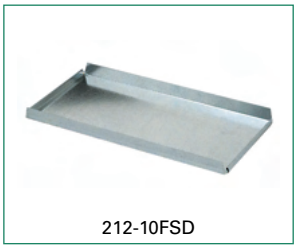
ADAPTER



49-02

Part No.	Size (In.)	Box Qty
49-02	2.00	12
49-04	4.00	12
49-06	6.00	12
49-08	8.00	12

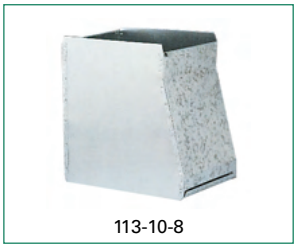
END CAP



212-10FSD

	Dimensions (In.)		
Part No.	W	L	Box Qty
212-10FSD	8.00	10.00	12
212-12FSD	8.00	12.00	12
212-14FSD	8.00	14.00	12
212-16FSD	8.00	16.00	12
212-18FSD	8.00	18.00	12
212-20FSD	8.00	20.00	12
212-22FSD	8.00	22.00	12
212-24FSD	8.00	24.00	12

REDUCER



113-10-8

	Dimensions (In.)			
Part No.	W	W	L	L
113-10-8	8.00	8.00	10.00	8.0
113-12-8	8.00	8.00	12.00	8.0
113-12-10	8.00	8.00	12.00	10.0
113-14-8	8.00	8.00	14.00	8.0
113-14-10	8.00	8.00	14.00	10.0
113-14-12	8.00	8.00	14.00	12.0
113-16-10	8.00	8.00	16.00	10.0
113-16-12	8.00	8.00	16.00	12.0
113-16-14	8.00	8.00	16.00	14.0
113-18-12	8.00	8.00	18.00	12.0
113-18-14	8.00	8.00	18.00	14.0
113-18-16	8.00	8.00	18.00	16.0
113-20-14	8.00	8.00	20.00	14.0
113-20-16	8.00	8.00	20.00	16.0
113-20-18	8.00	8.00	20.00	18.0
113-22-16	8.00	8.00	22.00	16.0
113-22-18	8.00	8.00	22.00	18.0
113-24-14	8.00	8.00	24.00	14.0
113-24-18	8.00	8.00	24.00	18.0
113-24-20	8.00	8.00	24.00	20.0
113-28-24	8.00	8.00	28.00	24.0

TRUNK

END CAP

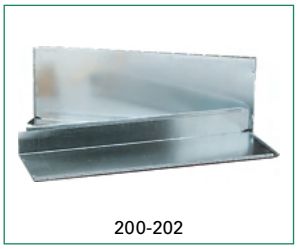


212-08

	Dimensions (In.)		
Part No.	W	L	Box Qty
212-08	8.00	8.00	12
212-10	8.00	10.00	12
212-12	8.00	12.00	12
212-14	8.00	14.00	12
212-16	8.00	16.00	12
212-18	8.00	18.00	12
212-20	8.00	20.00	12
212-22	8.00	22.00	12
212-24	8.00	24.00	12
212-26	8.00	26.00	12
212-28	8.00	28.00	12
212-30	8.00	30.00	12
212-2410	10.00	24.00	n/a
212-2510	10.00	25.00	n/a
212-3010	10.00	30.00	n/a

WALL STACK

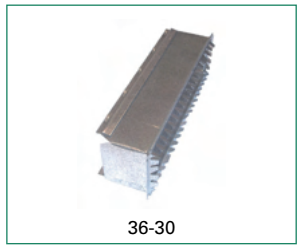
TRUNK



200-202

Part No.	Width (In.)	Length (In.)	Joint Length (In.)	Box Qty
200-202	2 1/4	10.00	24	15
200-222	2 1/4	12.00	24	15
200-224	2 1/4	12.00	48	15
200-30100	3 1/4	10.00	100	10
200-302	3 1/4	10.00	24	15
200-305	3 1/4	10.00	60	10
200-32100	3 1/4	12.00	100	10
200-322	3 1/4	12.00	24	15
200-325	3 1/4	12.00	60	10
200-345	3 1/4	14.00	60	10

COLLAR, STRAIGHT



36-30

Part No.	Width (In.)	Length (In.)
36-30	3 1/4	10.00
36-32	3 1/4	12.00

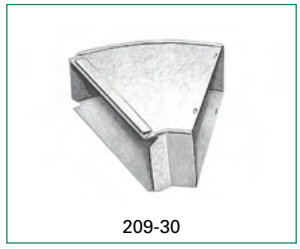
ANGLE, VERTICAL, 45°, SHORT



206-22

Part No.	Width (In.)	Length (In.)	Box Qty
206-22	2 1/4	12.00	12
206-30	3 1/4	10.00	12
206-32	3 1/4	12.00	12

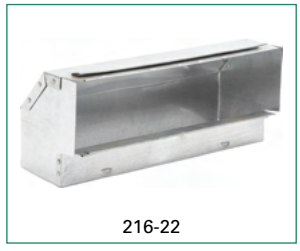
ANGLE, FLAT, 45°, SHORT



209-30

Part No.	Width (In.)	Length (In.)	Box Qty
209-30	3 1/4	10.00	12

ANGLE, VERTICAL, 90°, SHORT



216-22

Part No.	Width (In.)	Length (In.)	Box Qty
216-22	2 1/4	12.00	12
216-30	3 1/4	10.00	12
216-32	3 1/4	12.00	12

WALL STACK

BOOT, 90°



13-226

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
13-226	2 1/4	12.00	6.00	12
13-306	3 1/4	10.00	6.00	12
13-307	3 1/4	10.00	7.00	12
13-326	3 1/4	12.00	6.00	12
13-327	3 1/4	12.00	7.00	12
13-328	3 1/4	12.00	8.00	12

BOOT, CENTER END



17-206

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
17-206	2 1/4	10.00	6.00	12
17-226	2 1/4	12.00	6.00	12
17-305	3 1/4	10.00	5.00	12
17-306	3 1/4	10.00	6.00	12
17-307	3 1/4	10.00	7.00	12
17-326	3 1/4	12.00	6.00	12
17-327	3 1/4	12.00	7.00	12
17-328	3 1/4	12.00	8.00	12

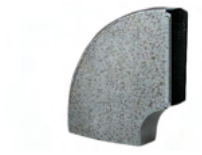
HEAD, LONG



2L-3060

	Register (In.)		Duct (In.)		
Part No.	**W**	**L**	**W**	**L**	**Box Qty**
2L-3060	3 1/4	10.00	6.00	10.00	12
2L-3262	3 1/4	12.00	6.00	12.00	12

ANGLE, FLAT, 90°, SHORT



290-30

Part No.	Width (In.)	Length (In.)	Box Qty
290-30	3 1/4	10.00	12
290-32	3 1/4	12.00	12

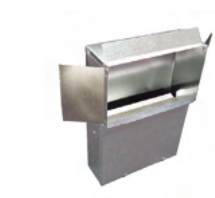
BOOT, STRAIGHT BACK



5-206

Part No.	Width (In.)	Length (In.)	Round (In.)	Box Qty
5-206	2 1/4	10.00	6.00	12
5-306	3 1/4	10.00	6.00	12
5-307	3 1/4	10.00	7.00	12
5-326	3 1/4	12.00	6.00	12
5-327	3 1/4	12.00	7.00	12
5-328	3 1/4	12.00	8.00	12
5-348	3 1/4	14.00	8.00	12

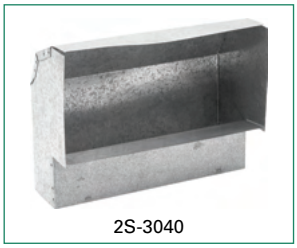
REGISTER HEAD, EARS



26-3060

	Register (In.)		Duct (In.)		
Part No.	**W**	**L**	**W**	**L**	**Box Qty**
26-3060	3 1/4	10.00	6.00	10.00	12
26-3262	3 1/4	12.00	6.00	12.00	12

HEAD, SHORT

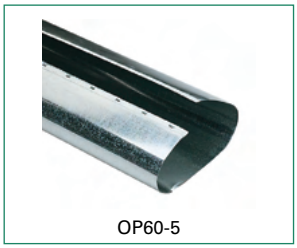


2S-3040

	Register (In.)		Duct (In.)		
Part No.	W	L	W	L	Box Qty
2S-3040	3 1/4	10.00	4.00	10.00	12
2S-3060	3 1/4	10.00	6.00	10.00	12
2S-3262	3 1/4	12.00	6.00	12.00	12

OVAL PIPE

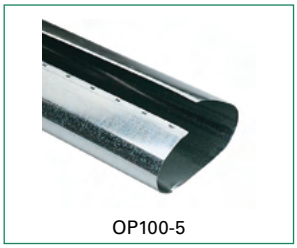
60" LONG



OP60-5

Part No.	Diameter (In.)	Oval (In.)	Box Qty
OP60-5	5.00	5.00	60.00
OP60-6	6.00	6.00	60.00
OP60-7	7.00	7.00	60.00

100" LONG



OP100-5

Part No.	Diameter (In.)	Oval (In.)	Box Qty
OP100-5	5.00	5.00	100.00
OP100-6	6.00	6.00	100.00
OP100-7	7.00	7.00	100.00
OP100-8	8.00	8.00	100.00

OVAL ELBOW

VERTICAL 90°



6033-5

Part No.	Oval (In.)	Box Qty
6033-5	5.00	12
6033-6	6.00	12
6033-7	7.00	12

VERTICAL 45°



6034-5

Part No.	Oval (In.)	Box Qty
6034-5	5.00	12
6034-6	6.00	12
6034-7	7.00	12

FLAT 90°



6035-5

Part No.	Oval (In.)	Box Qty
6035-5	5.00	12
6035-6	6.00	12
6035-7	7.00	12

FLAT 45°



6036-6

Part No.	Oval (In.)	Box Qty
6036-6	6.00	12
6036-7	7.00	12

OVAL TO ROUND

BOOT, OVAL CRIMP, 90°



6014-5

Part No.	Diameter (In.)	Oval (In.)	Box Qty
6014-5	5.00	5.00	12
6014-6	6.00	6.00	12
6014-7	7.00	7.00	12

END BOOT, 90°



6015-6

Part No.	Diameter (In.)	Oval (In.)	Box Qty
6015-6	6.00	6.00	12
6015-7	7.00	7.00	12

STRAIGHT BOOT



6012-5

Part No.	Diameter (In.)	Oval (In.)	Box Qty
6012-5	5.00	5.00	12
6012-6	6.00	6.00	12
6012-7	7.00	7.00	12

OVAL TO OVAL

REVERSE BOOT, 90°



6013-6

Part No.	Oval (In.)	Box Qty
6013-6	6.00	12
6013-7	7.00	12

THIN WALL OVAL STACK HEAD



6037-542

Part No.	Diameter (In.)	Box Qty
6037-542	5.00	12
6037-560	5.00	12
6037-640	6.00	12
6037-642	6.00	12
6037-660	6.00	12
6037-662	6.00	12
6037-760	7.00	12
6037-762	7.00	12

OVAL TOP TAKEOFF



6075-6

Part No.	Oval (In.)	Box Qty
6075-6	6.00	12

DRAWBAND



S75-4

Part No.	Diameter (In.)	Box Qty
S75-4	4.00	24
S75-5	5.00	24
S75-6	6.00	24
S75-7	7.00	24
S75-8	8.00	24
S75-9	9.00	24
S75-10	10.00	24

CLEAT

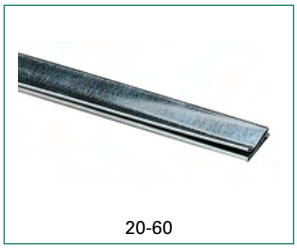
DRIVE



18-08

Part No.	Length (In.)	Box Qty
18-08	8.00	100
18-60	60.00	50
18-96	96.00	15

S



20-60

Part No.	Length (In.)	Box Qty
20-60	60.00	50
20-96	96.00	15
20-120	120.00	10

S, STANDING



22-586

Part No.	Length (In.)	Box Qty
22-586	60.00	50
22-16	120.00	10

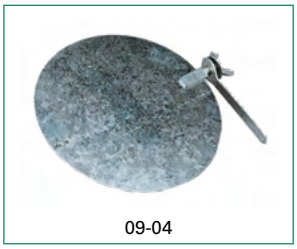
DAMPER



PDS-4

Part No.	Diameter (In.)	Box Qty
PDS-4	4.00	12
PDS-5	5.00	12
PDS-6	6.00	12
PDS-7	7.00	12
PDS-8	8.00	12
PDS-10	10.00	6
PDS-12	12.00	6

WITH HANDLE

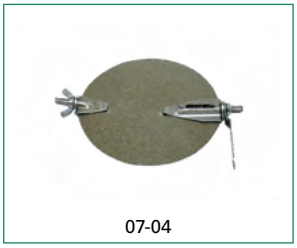


09-04

Part No.	Diameter (In.)	Box Qty
09-04	4.00	100
09-05	5.00	100
09-06	6.00	100
09-07	7.00	100
09-08	8.00	100
09-09	9.00	100
09-10	10.00	100
09-12	12.00	100
09-14	14.00	100

DAMPER

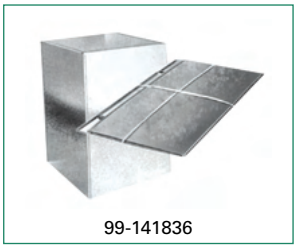
WITH KWIK-WAY



07-04

Part No.	Diameter (In.)	Box Qty
07-04	4.00	100
07-05	5.00	100
07-06	6.00	100
07-07	7.00	100
07-08	8.00	100
07-09	9.00	100
07-10	10.00	100
07-12	12.00	100
07-14	14.00	100
07-16	16.00	100

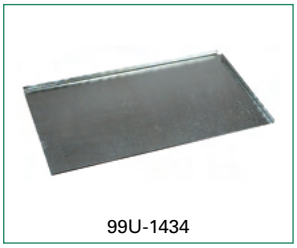
ASSEMBLY



99-141836

	Dimensions (In.)		
Part No.	W	H	L
99-141836	14 1/4	36.00	18 3/4
99-171836	17.00	36.00	18.00

SIDE



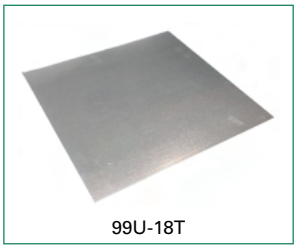
99U-1434

	Dimensions (In.)	
Part No.	W	L
99U-1434	14.00	34.00
99U-1734	17.00	34.00
99U-1828S	18.00	28.00
99U-1846S	18.00	46.00
99U-2028S	20.00	28.00
99U-2134	21.00	34.00
99U-2328S	23.00	28.00

Continued on next page

	Dimensions (In.)	
Part No.	W	L
99U-2428S	24.00	28.00
99U-2434	24.00	34.00
99U-2446S	24.00	46.00
99U-2628S	26.00	28.00

TOP



99U-18T

	Dimensions (In.)	
Part No.	W	H
99U-18T	18.00	18.00
99U-20T	20.00	20.00
99U-23T	23.00	23.00
99U-24T	24.00	24.00
99U-26T	26.00	26.00
99U-30T	30.00	30.00

CUSTOM PLENUM

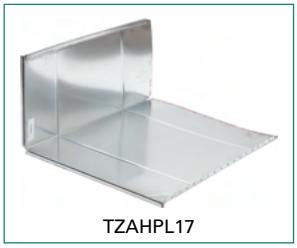
FURNACE PLENUM



ICPPL13

TZ prefix: fits Thermal Zone furnaces TZ81/91 and 92
ICP prefix: fits Arcoaire furnaces

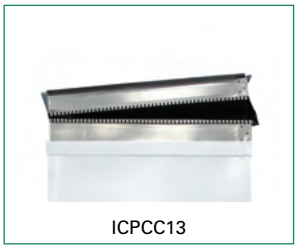
	Dimensions (In.)			
Part No.	W	H	L	Furnace Size (In.)
ICPPL13	12 1/2	29.00	19.00	14.00
ICPPL16	15 3/4	29.00	19.00	17.00
ICPPL20	19 1/4	29.00	19.00	21.00
ICPPL23	22 3/4	29.00	19.00	24.00


TZAHPL17

AIR HANDLER PLENUM

TZ prefix: fits Thermal Zone air handlers
ICP prefix: fits Arcoaire air handlers

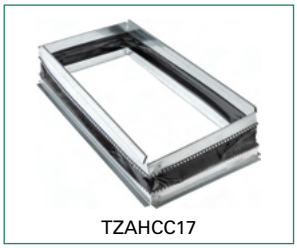
	Dimensions (In.)			
Part No.	W	H	L	Air Handling Unit Size (In.)
TZAHPL17	16 1/4	23.00	11.00	17.0
TZAHPL21	19 3/4	23.00	11.00	21.0
TZAHPL24	23 1/4	23.00	11.00	24.0
ICPAHPL13	12 1/2	23.00	11 1/2	13.0
ICPAHPL16	15 3/4	23.00	11 1/2	16.0
ICPAHPL20	19 1/4	23.00	11 1/2	20.0
ICPAHPL23	22 3/4	23.00	11 1/2	23.0
ICPAHPLV20	19 1/4	23.00	11 1/2	20.0
ICPAHPLV23	22 3/4	23.00	11 1/2	23.0


ICPCC13

FURNACE PLENUM CONNECTOR

TZ prefix: fits Thermal Zone furnaces TZ81/91 and 92
ICP prefix: fits Arcoaire furnaces

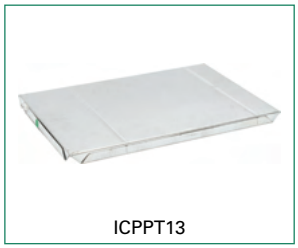
	Dimensions (In.)		
Part No.	W	L	Furnace Size (In.)
ICPCC13	12 1/2	19.00	14.00
ICPCC16	15 3/4	19.00	17.00
ICPCC20	19 3/4	19.00	21.00
ICPCC23	22 3/4	19.00	24.00


TZAHCC17

AIR HANDLER PLENUM CONNECTOR

TZ prefix: fits Thermal Zone air handlers
ICP prefix: fits Arcoaire air handlers

	Dimensions (In.)		
Part No.	W	L	Air Handling Unit Size (In.)
TZAHCC17	16 1/4	11.00	17.0
TZAHCC21	19 3/4	11.00	21.0
TZAHCC24	23 1/4	11.00	24.0
ICPAHCC13	12 1/2	11 1/2	13.0
ICPAHCC16	15 3/4	11 1/2	16.0
ICPAHCC20	19 1/4	11 1/2	20.0
ICPAHCC23	22 3/4	11 1/2	23.0


ICPPT13

FURNACE PLENUM TOP

TZ prefix: fits Thermal Zone furnaces TZ81/91 and 92
ICP prefix: fits Arcoaire furnaces

	Dimensions (In.)		
Part No.	W	L	Furnace Size (In.)
ICPPT13	12 1/2	19.00	14.00
ICPPT16	15 3/4	19.00	17.00
ICPPT20	19 1/4	19.00	21.00
ICPPT23	22 3/4	19.00	24.00


TZAHPTEC17

AIR HANDLER PLENUM END CAP

TZ prefix: fits Thermal Zone air handlers
ICP prefix: fits Arcoaire air handlers

	Dimensions (In.)		
Part No.	W	L	Air Handling Unit Size (In.)
TZAHPTEC17	16 1/4	11.00	17.0
TZAHPTEC21	19 3/4	11.00	21.0
TZAHPTEC24	23 1/4	11.00	24.0
ICPAHPTEC13	12 1/2	11 1/2	13.0
ICPAHPTEC16	15 3/4	11 1/2	16.0
ICPAHPTEC20	19 1/4	11 1/2	20.0
ICPAHPTEC23	22 3/4	11 1/2	23.0

DROP ASSEMBLY


70

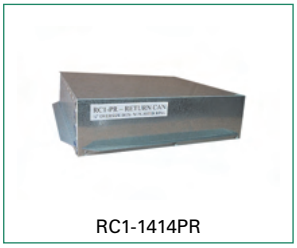
Drop assembly contains:

- One starting elbow with filter frame
- Two 32" duct sections
- One starting collar
- Slip and drives

	Register (In.)		Duct Size (In.)	
Part No.	W	L	W	L
70	16.00	20.00	10.00	20.00
70K-1420	14.00	20.00	10.00	20.00
71RAD	16.00	25.00	10.00	25.00
71-2315[1]	15.00	23.00	10.00	25.00
71K-1425	14.00	25.00	10.00	25.00
71-2512	12.00	25.00	16.00	25.00
71-251220	12.00	25.00	20.00	25.00

[1] 1" to 5" filter 20" x 25"

RETURN AIR BOX



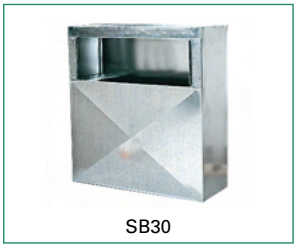
RC1-1414PR

4", PLASTER RING-CALIFORNIA

- Plaster ring on 4 sides
- 1/4" oversize

Part No.	Width (In.)	Length (In.)
RC1-1414PR	14 1/4	14 1/4
RC1-1616PR	16 1/4	16 1/4
RC1-1620PR	16 1/4	20 1/4
RC1-1625PR	16 1/4	25 1/4
RC1-2014PR	14 1/4	20 1/4
RC1-2020PR	20 1/4	20 1/4
RC1-2414PR	14 1/4	24 1/4
RC1-2514PR	14 1/4	25 1/4
RC1-2520PR	20 1/4	25 1/4
RC1-3014PR	14 1/4	30 1/4
RC1-3020PR	20 1/4	30 1/4

SUPPORT BOX



SB30

WITHOUT FILTER

- Compact, fully assembled
- Interior support bracket for maximum strength
- Preformed 1" flange for duct connection

	Dimensions (In.)			
Part No.	Size A (In.)	Size B (In.)	Duct W	Duct L
SB30	30.00	20.00	8.00	24.00
SB38	38.00	26.00	10.00	25.00



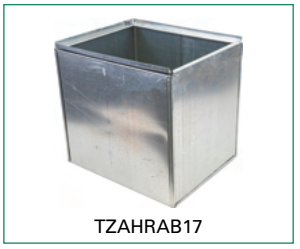
SBF36

WITH FILTER

- Accepts 1", 4", 5" media filter

	Dimensions (In.)			
Part No.	Size A (In.)	Size B (In.)	Duct W	Duct L
SBF36	36.00	26.00	10.00	25.00

CUSTOM SUPPORT BOX

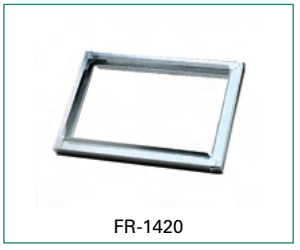


TZAHRAB17

TZ prefix: fits Thermal Zone air handlers
ICP prefix: fits Arcoaire air handlers

	Dimensions (In.)		
Part No.	W	L	Air Handling Unit (In.)
TZAHRAB17	18.00	22.00	17.0
TZAHRAB21	22.00	22.00	21.0
TZAHRAB24	25.00	22.00	24.0
ICPAHRAB17	18.00	22.00	17.0

FILTER RACK



FR-1420

Part No.	Length (In.)	Width (In.)	Box Qty
FR-1420	20.00	14.00	12
FR-1425	25.00	14.00	12
FR-1620	20.00	16.00	12
FR-1625	25.00	16.00	12
FR-2020	20.00	20.00	12
FR-2025	25.00	20.00	12
FR-2525	25.00	25.00	12

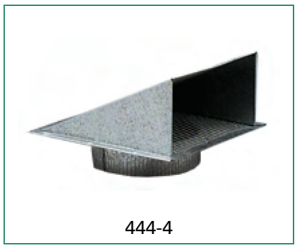
REGISTER FRAME



24F-106

	Dimensions (In.)	
Part No.	W	H
24F-106	10.00	6.00
24F-126	12.00	6.00
24F-128	12.00	8.00
24F-146	14.00	6.00
24F-148	14.00	8.00
24F-246	24.00	6.00
24F-306	30.00	6.00
24F-308	30.00	8.00

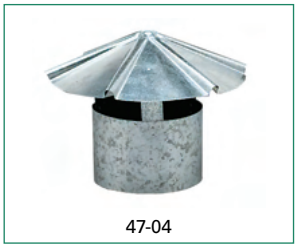
FRESH AIR INTAKE



444-4

Part No.	Diameter (In.)	Box Qty
444-4	4.00	12
444-5	5.00	12
444-6	6.00	12
444-8	8.00	6

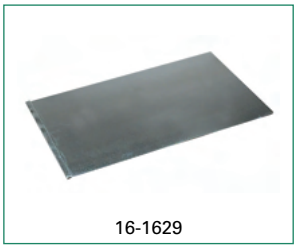
CHIMNEY CAP



47-04

Part No.	Diameter (In.)	Box Qty
47-04	4.00	12
47-05	5.00	12
47-06	6.00	12
47-07	7.00	12
47-08	8.00	12

GALVANIZED PANNING



16-1629

Part No.	Width (In.)	Length (In.)
16-1629	29.00	16 1/2
16-1630	30.00	16 1/2
16-1636	36.00	16 1/2
16-2933	33.00	29.00
16-3236	36.00	32.00

ALUMINUM FLEX DUCT, 8' LENGTH



931-03

Part No.	Dia. (In.)	Box Qty
931-03	3.00	16 jts
931-04	4.00	16 jts
931-06	6.00	16 jts

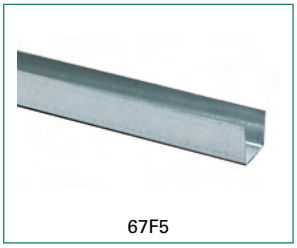
FLEX DUCT CONNECTOR



381-06

Part No.	Diameter (In.)	Box Qty
381-06	6.00	12
381-07	7.00	12
381-08	8.00	12
381-09	9.00	12
381-10	10.00	12
381-12	12.00	12
381-14	14.00	12

FILTER CHANNEL


67F5

Part No.	Width (In.)	Box Qty
67F5	1.00	n/a

ALUMINUM VENT HOOD


VU3VENT

Aluminum vent hood with positive damper, integral 12" long seamed tail piece, and flange plate.

Part No.	Diameter (In.)	Box Qty
VU3VENT	3.00	24
VU4VENT	4.00	24

DUCT TOOL


TY4

TIE TENSIONING TOOL

Part No.	Description	Length (In.)
TY4	Tensioner, Manual Cutoff	10.00
TY4G	Tensioner, Gripped, Manual Cutoff	9.80
TY6	Tensioner, Auto Cutoff	11.00


FDC1

FLEX DUCT CUTTER

The FDC1 flex duct cutter features a double edged knife blade that cleanly pierces through the outer skin, insulation and liner of flexible round duct. The duct's exposed wire rib coil is then positioned in the jaws of a built-in wire cutter.

Part No.	Description	Length (In.)
FDC1*	Flex Duct Cutter	14.20

DUCT TIE


L24175

- 175 lb. tensile strength

Part No.	Description	Length (In.)	Pkg Qty
L24175	24" UV Black, 7" Duct	32.00	50
L30175	36", 9" Duct	40.00	50
L48175	48", 14" Duct	54.00	50
L36175N	36", 11" Duct, Natural	40.00	50

STRAP


710A16100

STRAPPING HANGER IRON

Part No.	Length (Ft.)	Width (In.)
710A16100	100.0	6.25
6506	50.0	6.25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


710-100

POLYPROPYLENE WEBBING STRAP

- 1 3/4" tensile strength: 440 lb. average
- For hanging flex-duct, fiberglass ducts, etc.

DIVERSITECH

Part No.	Length (Ft.)	Length (In.)	Width (In.)
710-100	300.0	1.00	1.00



10190

VINYL DURO STRAP

Lightweight, low-cost fabric of high-strength design for hanging ducts.
Designed for hanging:

- Flexible duct
- PVC vent duct
- Duct board systems
- Many lighter weight steel duct applications

DURO DYNE

Part No.	Length (Ft.)	Width (In.)
10190	200.0	1.50

POLY JACKET/2 PLY POLY CORE

FLEXIBLE DUCT

A double lamination of tough polyester which encapsulates a steel wire helix forms the air-tight inner core. The double-layer core is wrapped in a thick blanket of fiberglass insulation and sheathed in a rugged and durable reinforced polyester jacket. Designed for indoor use as a supply and return air duct in residential and commercial low-to-medium pressure heating and air conditioning systems. UL Listed 181, SBCC, BOCA, NFPA 90A and 90B, HUD. Meets most federal, state and local codes. We recommend that you check with the local code body having jurisdiction in your area to determine applicable codes.


704FRD25

GREY JACKET, R4.2 INSULATION

Priced per foot. 25 feet per box [6" available in 7 foot boxes]

Part No.	Dia. (In.)	Box Qty
704FRD25	4.00	25 Ft
705FRD25	5.00	25 Ft
706FRD25	6.00	25 Ft
707FRD25	7.00	25 Ft
708FRD25	8.00	25 Ft

Continued on next page

Part No.	Dia. (In.)	Box Qty
709FRD25	9.00	25 Ft
710FRD25	10.00	25 Ft
712FRD25	12.00	25 Ft
714FRD25	14.00	25 Ft
716FRD25	16.00	25 Ft
718FRD25	18.00	25 Ft
720FRD25	20.00	25 Ft


303FRD25

METALLIZED, R4.2 INSULATION

- Reinforced metalized polyester jacket
- Priced per foot.

Part No.	Dia. (In.)	Box Qty
303FRD25	3.00	25 Ft
304FRD25*	4.00	25 Ft
305FRD25*	5.00	25 Ft
306FRD25*	6.00	25 Ft
307FRD25*	7.00	25 Ft
308FRD25*	8.00	25 Ft
309FRD25*	9.00	25 Ft
310FRD25*	10.00	25 Ft
312FRD25*	12.00	25 Ft
314FRD25*	14.00	25 Ft
316FRD25*	16.00	25 Ft
318FRD25*	18.00	25 Ft
320FRD25*	20.00	25 Ft
MHP25B-5[1]	5.00	25 Ft
MHP25B-6[1]	6.00	25 Ft
MHP25B-8[1]	8.00	25 Ft
MHP25B-10[1]	10.00	25 Ft
MHP25B-12[1]	12.00	25 Ft
MHP25B-14[1]	14.00	25 Ft
MHP25B-18[1]	18.00	25 Ft

[1] Bagged

POLY JACKET/2 PLY POLY CORE


F1164R6

BLACK JACKET, R6.0 INSULATION

- Priced per foot. 25 feet per box

Part No.	Dia. (In.)	Box Qty
F1164R6	4.00	25 Ft
F1165R6	5.00	25 Ft
F1166R6	6.00	25 Ft
F1167R6	7.00	25 Ft
F1168R6	8.00	25 Ft
F1169R6	9.00	25 Ft
F11610R6	10.00	25 Ft
F11612R6	12.00	25 Ft
F11614R6	14.00	25 Ft
F11616R6	16.00	25 Ft
F11618R6	18.00	25 Ft
F11620R6	20.00	25 Ft


F2164

METALLIZED, R6.0 INSULATION

- Priced per 25 ft

Part No.	Dia. (In.)	Box Qty
F2164	4.00	25 Ft
F2165	5.00	25 Ft
F2166	6.00	25 Ft
F2167	7.00	25 Ft
F2168	8.00	25 Ft
F2169	9.00	25 Ft
F21610	10.00	25 Ft
F21612	12.00	25 Ft
F21614	14.00	25 Ft
F21616	16.00	25 Ft
F21618	18.00	25 Ft
F21620	20.00	25 Ft
MHP25R6-20	20.00	25 Ft
MHP25R6-22	22.00	25 Ft


304FRD25R6

METALLIZED, R6.0 INSULATION

- Priced per foot. 25 feet per box

Part No.	Dia. (In.)	Box Qty
304FRD25R6*	4.00	25 Ft
305FRD25R6*	5.00	25 Ft
306FRD25R6*	6.00	25 Ft
307FRD25R6*	7.00	25 Ft
308FRD25R6*	8.00	25 Ft
309FRD25R6*	9.00	25 Ft
310FRD25R6*	10.00	25 Ft
312FRD25R6*	12.00	25 Ft
314FRD25R6*	14.00	25 Ft
316FRD25R6*	16.00	25 Ft
318FRD25R6*	18.00	25 Ft
320FRD25R6*	20.00	25 Ft
305FRD25B*[1]	5.00	25 Ft
307FRD25B*[1]	7.00	25 Ft
310FRD25B*[1]	10.00	25 Ft
312FRD25B*[1]	12.00	25 Ft
316FRD25B*[1]	16.00	25 Ft
318FRD25B*[1]	18.00	25 Ft

[1] Bagged


F2185

METALLIZED, R8.0 INSULATION

- Priced per 25 ft

Part No.	Dia. (In.)	Box Qty
F2185	5.00	25 Ft
F2184	4.00	25 Ft
F2186	6.00	25 Ft
F2187	7.00	25 Ft
F2188	8.00	25 Ft
F2189	9.00	25 Ft
F21810	10.00	25 Ft
F21812	12.00	25 Ft
F21814	14.00	25 Ft
F21816	16.00	25 Ft
F21818	18.00	25 Ft
MHP25R8-4	4.00	25 Ft
MHP25R8-5	5.00	25 Ft
MHP25R8-6	6.00	25 Ft
MHP25R8-7	7.00	25 Ft
MHP25R8-8	8.00	25 Ft
MHP25R8-9	9.00	25 Ft

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Dia. (In.)	Box Qty
MHP25R8-10	10.00	25 Ft
MHP25R8-12	12.00	25 Ft
MHP25R8-14	14.00	25 Ft
MHP25R8-16	16.00	25 Ft
MHP25R8-18	18.00	25 Ft
MHP25R8-20	20.00	25 Ft
MHP25R8B-5[1]	5.00	25 Ft
MHP25R8B-6[1]	6.00	25 Ft
MHP25R8B-7[1]	7.00	25 Ft
MHP25R8B-8[1]	8.00	25 Ft
MHP25R8B-10[1]	10.00	25 Ft
MHP25R8B-12[1]	12.00	25 Ft
MHP25R8B-14[1]	14.00	25 Ft
MHP25R8B-16[1]	16.00	25 Ft
MHP25R8B-18[1]	18.00	25 Ft

[1] Bagged



314FRD25R8

METALLIZED, R8.0 INSULATION

- Priced per foot. 25 feet per box

Part No.	Dia. (In.)	Box Qty
314FRD25R8*	4.00	25 Ft
315FRD25R8*	5.00	25 Ft
316FRD25R8*	6.00	25 Ft
317FRD25R8*	7.00	25 Ft
318FRD25R8*	8.00	25 Ft
319FRD25R8*	9.00	25 Ft
3110FRD25R8*	10.00	25 Ft
3112FRD25R8*	12.00	25 Ft
3114FRD25R8*	14.00	25 Ft
3116FRD25R8*	16.00	25 Ft
3118FRD25R8*	18.00	25 Ft

THICK POLY JACKET/2 PLY POLY CORE



406FRD25

BLACK JACKET, R4.2 INSULATION

Manufactured with a black, heavy-duty polyethylene jacket which complies with the HUD requirements for outdoor mobile home or modular home installation. Designed to be used as: a supply and return air duct connecting a selfcontained HVAC system to the main air duct of a mobile or modular home; a complete air duct system and/or branch duct when a horizontal or upflow HVAC system is used in a mobile or modular home; and as a crossover air duct to join the main air ducts of a doublewide mobile or modular home.

- For indoor and outdoor applications
- Rated positive pressure: 10" w.g.
- Recommended operating pressures:
  Maximum positive: 4" w.g. (8" and 10" dia.); 2" w.g.(12" and 14" dia.)
- Maximum velocity: 5,000 fpm
- Maximum operating temperatures:
  -20°F to 140° continuous (maximum pressure)
  -20°F to 180°F continuous (2" pos. w.g. maximum)
  -20°F to 250°F intermittent (1/2" pos. w.g. maximum)
- UL Listed
- Priced per foot. 25 feet per box

Part No.	Dia. (In.)	Box Qty
406FRD25	6.00	25 Ft
408FRD25	8.00	25 Ft
410FRD25	10.00	25 Ft
412FRD25	12.00	25 Ft
414FRD25	14.00	25 Ft

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UNINSULATED FLEX


4UIFRD

A galvanized steel wire helix is encapsulated within the single ply aluminum-polyester laminate for high strength and durability.

- Rated pressure per UL Listed 181: 2" W.C. positive, 0.5" W.C. negative
- Recommended maximum operating pressure: 1" W.C. positive on all sizes
- Rated maximum air velocity: 3,000 fpm
- Operating temperature range:
  -20°F to 140°F continuous maximum positive pressure
  -20°F to 180°F intermittent 0.5" W.C. positive pressure
- PRICED PER FOOT

Part No.	Dia. (In.)	Length (Ft.)
4UIFRD*	4.00	25.0
5UIFRD*	5.00	25.0
6UIFRD*	6.00	25.0
7UIFRD*	7.00	25.0
8UIFRD*	8.00	25.0
10UIFRD*	10.00	25.0

INSULATION SLEEVE


010R67

R6, R8 INSULATION

Constructed of a thick fiberglass insulation blanket sheathed in a reinforced metalized polyester vapor barrier jacket and supplied in 5' lengths, with an extra 2" of jacket length for overlap.

- Material is .75 lb. density
- Sold in 5 foot lengths; PRICED PER FOOT

Part No.	Thickness (In.)	Diameter (In.)	Insulation Value
010R67*	2.00	7.00	R6
010R69*	2.00	9.00	R6
010R610*	2.00	10.00	R6
010R87*	2 1/2	7.00	R8
010R89*	2 1/2	9.00	R8
010R810*	2 1/2	10.00	R8

DUCT LINER


12X35DL

A high-quality acoustical and thermal insulation. It is composed of long textiletype glass fibers firmly bonded together with a thermosetting resin into a resilient, tough insulation for lining the interior of HVAC sheet metal ducts. The air stream surface is overlaid with a fire-resistant coating which adds strength to the product during fabrication, installation and system operation. It is used primarily as an acoustical liner in HVAC sheet metal ducts to absorb unwanted crosstalk, equipment and air rush noise. It also improves energy efficiency by reducing heat gain or loss. It performs in most types of heating and cooling duct systems, operating at velocities up to 6,000 fpm and temperatures to 250°F. Available in 100' rolls.

Part No.	Thickness (In.)	Width (In.)	Package Length (Ft)
12X35DL	1/2	35 1/2	100
1X35DL	1.00	35 1/2	100
12X48X100DL	1/2	47 1/2	100
1X48X100DL	1.00	47 1/2	100

FLEX DUCT BRACE


630500

SMART™ FLOW ELBOW

Radius forming brace, also known as a durable elbow support, designed to form flexible duct into highly efficient 90° elbows. It greatly improves air flow resulting in improved system performance and lower energy costs.

- Helps achieve a net zero energy building
- Eliminates flex duct kinks and restrictions
- For residential and commercial construction
- Works on all brands of flex duct (Flex duct and diffuser not included)

H&C FLEX™

Part No.	Comments
630500	One Size Fits 4" to 16" Flex Duct

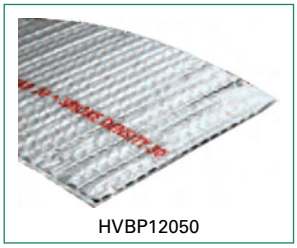
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DUCT WRAP


IIDR

A blanket-type insulation composed of glass fibers bonded together with a thermosetting resin. Available with either a FSK or vinyl-film vapor retarder facing. FSK is a glass-scrim reinforced laminate of aluminum foil and kraft paper bonded together with a flame-retardant adhesive. The vinyl film is available in two colors: white or gray. It is used to insulate rectangular and round heating, ventilating, and air conditioning ductwork that supplies conditioned air at temperatures from 35°F to 250°F for faced duct wrap and from 35°F to 350°F for unfaced duct wrap. Helps control heat loss or gain and condensation during system operation.

Part No.	Thickness (In.)	Width (In.)	Package Length (Ft)
IIDR	1 1/2	48.00	100
56RL	2 1/8	48.00	75
12RL	3.00	48.00	50
1X36X150DWS	1.00	36.00	150
1X36X150VDW	1.00	36.00	150
112X100VDW	1 1/2	48.00	100
218X48X75DW	2 1/8	48.00	75
2.2X48X75DW	2 1/5	48.00	75
3X48X50DW	3.00	48.00	50

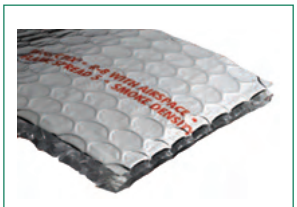

HVBP12050

BUBBLE, R-6.0

Reflectix® duct insulation consists of two layers of highly reflective film (96% reflectivity) that are bonded to two tough layers of polyethylene. Two inner layers of insulating bubbles resist conductive heat flow while a center layer of polyethylene gives Reflectix® high reliability and strength.

- Fire Rating: Class A/Class 1
- Resists growth of fungi, mold and mildew
- No need for protective garments or respirators when installing
- Not affected by moisture/humidity
- Reflects 96% radiant heat
- ISO 9001:2000 certified manufacturing location

Part No.	Length (Ft.)	Width (In.)
HVBP12050	50.0	12.00
HVBP24050	50.0	24.00
HVBP36100	100.0	36.00
HVBP48050	50.0	48.00
HVBP48100	100.0	48.00
HVBP48125	125.0	48.00
HVBP60050	50.0	60.00
HVBP60125	125.0	60.00


HVBB48075

BIG BUBBLE, R-8.0

The Reflectix®R-8.0 Duct Insulation is a nominal 1" thick and consists of an outer reflective surface, two layers of big bubbles in the center, and a second outer reflective surface.

- Requires less space than fiberglass to achieve R-8 (with 3/4" air space)
- Inhibits condensation
- Class A/Class 1 Fire Rated
- Resists growth of fungi, mold and mildew
- No need for protective garments or respirators when installing
- Not affected by moisture/humidity
- Reflects 96% radiant heat
- ISO 9001:2000 certified manufacturing location
- Temperature range: 250° Operational
- Flame spread index (ASTM E 84): Less than 25
- Smoke developed index (ASTM E 84): Less than 50
- Fire rating: Class A/Class 1
- Water vapor transmission (ASTM E 96): 0.02
- Puncture resistance: 60 lb./in.
- Emittance: 0.04
- Tensile strength: 3.7 N/mm

Reflectix®

Part No.	Length (Ft.)	Width (In.)
HVBB48075	75.0	48.00

DUCT SEALANT


DP1010

Water based, premium quality, UL Listed, high pressure/high velocity duct sealant for commercial and residential supply and return air duct use.

It exceeds all SMACNA seal and pressure classes and is recommended up to 15 inches water gauge pressure.

DP DESIGN POLYMERICS

Part No.	Container Size	Description
DP1010	1 Gallon Pail	Grey, Smooth
DP1020	1 Gallon Pail	Grey, Fiber Reinforced
DP1030	1 Gallon Pail	Grey, Fiber Reinforced

DUCT SEALANT



POA111

- LEED EQ Credit 4.1
- High solids formula
- Formulated indoor and outdoor use
- Seals high pressure HVAC duct systems
- Has excellent mold and mildew resistance

Part No.	Container Size	Description
POA111	1 Gal.	AirSeal® 11, Premium, Water Based Duct Sealant
POA331	1 Gal.	AirSeal® 13, Fiber Reinforced, Water Based Duct Sealant Mastic



6014

HARDCAST

- Water based
- All duct classes
- 6014 Indoor only-UL classified
- VG181 Indoor/Outdoor- UL 181A-M/181 B-M Listed
- 1 gallon container

Part No.	Container Size	Description
6014	1 Gal.	Indoor Duct Sealant, Iron Grip
VG181	1 Gal.	All Purpose Duct Sealant, Versa Grip
CCW11814	1 Gal.	w/Polyester Reinforcement

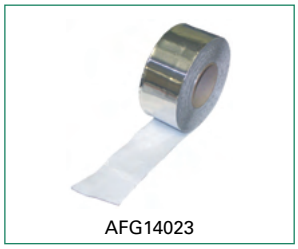


AB151

FIBERGLASS SCRIM TAPE

All purpose self-adhering fiberglass ductwork scrim primarily used for temporary fixation of ductwork prior to sealant application.
For use with UL 181 Listed applications.

Part No.	Description
AB151	3" x 150' roll

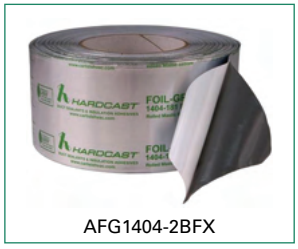


AFG14023

FOIL-GRIP™ 1402

Pressure sensitive, 40-year cycle, duct joint and general purpose rolled sealant. It provides an instant water resistant grip to most surfaces including sheet metal, duct board, flex duct, PVC coated duct, and duct wrap vapor barriers.

Part No.	Description
AFG14023	3" x 100' Roll, Non-Printed
AFG1402P2	2" x 100' Roll, Printed



AFG1404-2BFX

FOIL-GRIP™ 1404

Foil-Grip 1404 has superior tack for instant grab strength to galvanized metal, flex duct, PVC coated pipe, and PVC coated ductwork for an immediate airtight bond. The foil facer/butyl adhesive composite provides excellent UV resistance coupled with outstanding water resistance. The easy tear provides a fast installation for airtight seals on above and below grade ductwork applications.

- Improved tack provides enhanced grip and adhesion
- Outstanding water resistance
- Quick-and-easy application
- Excellent UV resistance
- Provides an airtight seal
- Ideal for above- and below-grade ductwork
- Superior performance in cold weather application

Part No.	Description
AFG1404-2BFX	2" x 100' Roll



RCD6

MASTIC®

- Water-Borne
- Weather Resistant
- Low Odor
- Earns LEED Credits
- UL Listed
- Made in the USA

Part No.	Container Size	Description	Color	Use with
RCD6	1 Gal.	#6 Mastic®, Low-High Velocity Air Duct Sealant, Fiber Reinforced	White Cream	Permanently seals the joints and seams of all duct types including UL listed air ducts
RCD62G	2 Gal.	#6 Mastic®, Low-High Velocity Air Duct Sealant, Fiber Reinforced	White Cream	Permanently seals the joints and seams of all duct types including UL listed air ducts
RCD8-11OZ	10.7 Oz.	#8 Mastic® Low-High Velocity Sheet Metal Air Duct Sealant	Grey	Permanently seals the joints and seams of all duct types including UL listed air ducts

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Part No.	Container Size	Description	Color	Use with
RCD8G	1 Gal.	#8 Mastic® Low-High Velocity Sheet Metal Air Duct Sealant	Grey	Permanently seals the joints and seams of all duct types including UL listed air ducts
RCD8-2G	2 Gal.	#8 Mastic® Low-High Velocity Sheet Metal Air Duct Sealant	Grey	Permanently seals the joints and seams of all duct types including UL listed air ducts
RCD9	1 Gal.	#9 Mastic® Low-High Velocity Air Duct Sealant	White	Seals rigid fiberglass air ducts (duct board); all duct types including UL listed air ducts and thermal insulation
RCD101G	1 Gal.	#10 Mastic® Low-High Velocity Air Duct Sealant, Fiber Reinforced	Tan	Seals the fabricated joints and seams of all duct types including UL listed air ducts
RCD15G	1 Gal.	#15 Weather Barrier Coating	Bright White	Protects air ducts and thermal insulation exposed to the weather

FLEXIBLE DUCT CONNECTOR



MFD4-1FT

DUROLON

White and clean appearing Durolon is a coated, heavy glass fabric. Durolon is flame resistant and will perform satisfactorily in temperature ranging from -50°F to +300°F.

- Weight: 24 oz. per sq. yd.
- Tensile strength: 500 lb. x 500 lb.
- Tear strength: 13 lb. x 13 lb.
- Sold and priced per foot

Part No.	Fabrication	Roll Length (Ft.)
MFD4-1FT	Metal Fab, 3" metal, 3" fabric, 24 GA	100



EBX-1FT

EXCELON

Heavy black colored vinyl coat on both sides. Heavy quality multi-purpose flexible connector for most applications (within temperature limitations).

- Weight: 22 oz. per sq. yd.
- Tensile strength: 240 lb. x 220 lb.
- Tear strength: 100 lb. x 100 lb.
- Heat resistance: to 250°F intermittent.
- Resistant to oil, grease and most chemicals. Air tight and waterproof.
- Flame resistance: fabric classified by Underwriters Laboratories Inc. as to flammability. Classified Building Materials Index File R-4462.
- Sold and priced per foot.

Part No.	Description	Roll Length (Ft.)
EBX-1FT	Econo Fab, 2 3/4" metal, 4" fabric, 28 GA	100
MBX4-1FT	Metal Fab, 3" metal, 3" fabric, 24 GA	100



JRN-1FT

NEOPRENE (STANDARD GRADE)

A heavy glass fabric double coated with Neoprene. This fabric is noncombustible and the coating is fire retardant. It is absolutely waterproof and airtight. For installations on systems exposed to toxic fumes or adverse atmospheric conditions.

- Weight: Approximately 22 oz. per sq. yd.
- Gauge: .024
- Tensile strength: 500 lb. x 500 lb.
- Tear strength: 13 lb. x 13 lb.
- Sold and priced per foot.

Part No.	Fabrication	Roll Length (Ft.)
JRN-1FT	Junior Connector, 1 3/4" metal, 3" fabric, 24 GA	100
EFN-1FT	Econo-Fab, 2 3/4" metal, 4" fabric, 24 GA	100

VANE RAIL



VR2

Vane rail, made of 24 gauge galvanized steel is precision-stamped and slotted assuring uniform spacing of vanes, and the fastest, easiest, most economical construction of vane assemblies. It is specially embossed adding strength and sturdiness to the finished section, eliminating rattling.

For simple low cost field installations in duct board quiet turn vanes are fabricated in heavy density molded fiberglass and are packed in 6' lengths.

- Heavy density molded fiberglass.

Part No.	Composition	Roll Length (Ft.)
VR2[1]	Metal	100
QV14[2]	Fiberglass	126

[1] Price/Roll [2] For duct board systems

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REGULATOR HARDWARE

RAPIT REGULATORS


RS156

Part No.	Box Qty	Description
RS156[1]	10	Regulator Set
RS256[2]	10	Regulator Set

[1] Has 1 bearing [2] Has 2 bearings

DIAL REGULATOR SET

Includes regulator, spring end bearing, square end bearing. For round or square ducts.


KS145

Part No.	Duct Standoff (In.)	Shaft Size (In.)	Max. Damper Size (In.)	Box Qty
KS145	7/8	1/4	10	10
KSR195	3/4	3/8	20	10

SPECLINE REGULATOR

HANDLE STYLE HEX NUT

- Handle length 4 5/16”
- 2 5/16” mounting hole centers


SRHS388

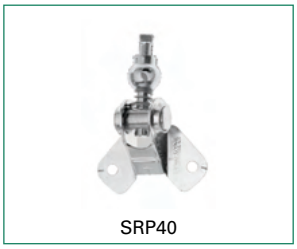
Part No.	Duct Standoff (In.)	Shaft Size (In.)	Box Qty
SRHS388	5/8	3/8 Sq.	10

OPEN END BEARING


SB112

Part No.	Shaft Size (In.)	Box Qty
SB112	1/2 Sq.	25
SB138	3/8 Sq.	25

SPLITTER DAMPER BRACKET


SRP40

Part No.	Shaft Size (In.)	Box Qty
SRP40	1/4 Rd.	25
SRP50	5/16 Rd.	25

BALL JOINT DAMPER CASTING


SRP14

Part No.	Shaft Size (In.)	Box Qty
SRP14	1/4 Rd	25

DAMPER ROD CLIP


KP25

Part No.	Shaft Size (In.)	Box Qty
KP25	3/8 Rd	100


KS385-3/8

DIAL REGULATOR SET

Includes quadrant long spring lock bearing and long square end bearing for round or square ducts.

DURO DYNE

Part No.	Duct Standoff (In.)	Shaft Size (In.)	Max. Damper Size (In.)	Box Qty
KS385-3/8	1 1/8	3/8 Sq	20	100

DOOR ACCESSORIES


HPH112

PIANO HINGE

- Zinc plated with holes
- Dimensions: 1 1/2"W x 3"L

DURO DYNE

Part No.	Box Qty	Description
HPH112	25	Piano Hinge Zinc Plated with Screw Holes


SP-10

ACCESS DOOR LOCK

DURO DYNE

Part No.	Shaft Size (In.)	Box Qty
SP-10	3/8 Rd	10

INSTRUMENT TEST PORT


TH-1

DURO DYNE

Part No.	Box Qty	Description
TH-1	25	Test Port

INSULATION FASTENER


SAH34

SELF-ADHESIVE HANGER

Self-adhesive hanger with self-stick base. Just peel release paper from hanger and firmly press base to surface. Impale insulation over hanger nail and slip on locking washer.

- Hangers with steel washers

DURO DYNE

Part No.	Length (In.)	Pkg Qty
SAH34	3/4	100
SAH114	1 1/4	100
SAHB114	1 1/4	1,000
SAH134	1 3/4	100
SAHB134	1 3/4	1,000
SAH250	2 1/2	100


TBG12

BANGER (MECHANICAL)

Easy to install—place liner over sheet metal and drive banger through. Upon impact with the sheet metal the two jaws of the fastener penetrate the metal and lock securely within the thickness of the metal.

- Description describes thicknessand density of duct liner

DURO DYNE

Part No.	Description	Pkg Qty
TBG12[1]	1/2" - 2 Lb.	1,000
TBG100[1]	1" - 1 1/2 Lb.	1,000
TBGB100[1]	1" - 1 1/2 Lb.	5,000
BGT12[2]	1/2" - 2 Lb.	1,000
BGT100[2]	1/2" - 1 1/2 Lb.	1,000

[1] Tripod 3 jaws (for added stability) [2] Standard 2 jaws


PC-1

SPOTTER PIN AND CLIP (WELD)

Welded to the sheet metal, insulation is impaled over the nails and held in place with the addition of type PC (metal) washers.

- 1 1/4" pin for 1" duct liner

DURO DYNE

Part No.	Description	Length (In.)	Pkg Qty
PC-1	Spotter Clip	1 1/4	1,000
PN114	Spotter Clip	1 1/4	1,000

INSULATION FASTENER



CP-12

RIB PIN (WELD)

Consists of a sharp pointed nail and washer assembly.

- 1/2" pin for 1/2" duct liner
- 3/4" pin for 1" duct liner

DURO DYNE

Part No.	Length (In.)	Pkg Qty
CP-12	1/2	1,000
CP34	3/4	1,000
CPB34	3/4	5,000

ZONE DAMPER



ZD6X8TZ

24-volt, spring return, power closed damper used to control circulating air in heating, cooling, and ventilating systems.

- Solid construction using extruded aluminum frame and blades
- Parallel blade design for low leakage performance
- Quieter operation with fewer blades
- Fail-safe, normally open operation
- Rated up to 1 in. wc static pressure
- Motor mounted on dimension "B" side
- Dimensions in inches
- Terminals: M1-Power; M6 Common; M4 (optional)-LED indication

****More sizes available on uri.com or at your local branch.****

Honeywell Home

Part No.	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
ZD6X8TZ	8.00	6.00	4.30
ZD6X10TZ	10.00	6.00	4.50
ZD8X12TZ	12.00	8.00	5.40
ZD8X26TZ	26.00	8.00	9.40
ZD10X10TZ	10.00	10.00	2.71
ZD10X20TZ	20.00	10.00	3.19
ZD12X12TZ	12.00	12.00	2.92
ZD12X22TZ	22.00	12.00	3.44
ZD14X14TZ	14.00	14.00	3.07
ZD14X24TZ	24.00	14.00	9.90
ZD16X6TZ	6.00	16.00	5.67
ZD16X16TZ	16.00	16.00	8.39
ZD18X8TZ	8.00	18.00	6.12
ZD18X14TZ	14.00	18.00	8.06
ZD20X12TZ	12.00	20.00	8.19
ZD20X20TZ	20.00	20.00	10.55
ZD22X10TZ	10.00	22.00	7.68
ZD22X22TZ	22.00	22.00	12.04

Continued on next page

Part No.	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
ZD24X12TZ	12.00	24.00	9.05
ZD24X18TZ	18.00	24.00	11.35
ZD26X8TZ	8.00	26.00	7.37
ZD26X14TZ	14.00	26.00	9.79
ZD28X8TZ	8.00	28.00	7.70
ZD28X20TZ	20.00	28.00	13.20



ARD6TZ

ROUND

- Features galvanized steel with single-blade damper, which closes off tightly against gasket for minimal leakage
- Designated as power closed/ spring return open damper for use with Honeywell Zoning Systems
- Can be field-converted when used as an independent zone or for fresh air intake
- Rated to operate up to 1-inch wc
- Motor timing: 30 seconds power open/10 seconds spring return
- Motor voltage 24V

Honeywell Home

Part No.	Diameter (In.)	Width (In.)	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
ARD6TZ	6.00	6.00	8.13	6.25	2.00
ARD7TZ	7.00	7.00	9.13	7.50	3.00
ARD8TZ	8.00	8.00	4.63	4.88	4.00
ARD10TZ	10.00	10.00	4.63	4.88	7.00
ARD12TZ	12.00	12.00	14.13	12.50	8.00
ARD14TZ	14.00	14.00	4.63	4.88	10.00
ARD16TZ	16.00	16.00	4.63	4.88	13.00
ARD18TZ	18.00	18.00	20.13	18.50	16.00
ARD20TZ	20.00	20.00	4.63	4.88	23.00



M847DZONE

DAMPER ACTUATOR REPLACEMENT

- Warranty: 2 years

Honeywell Home

Part No.	Description	Width (In.)	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
M847DZONE	Actuator Motor, 24V for ARD, ARDTZ, ZD, ZDTZ	2.38	4.50	3.38	1.40


RRD5

ROUND, RETROFIT

The RRD is a round, low voltage damper that is easily inserted into rigid round ducts for retrofit zoning in forced air heating and cooling systems. The damper is used with Honeywell EMM3, EMM3U, TZ4, W8835 and similar zone control systems. The power open, power closed actuator draws 2.5 VA allowing multiple dampers per zone, but delivers high torque for reliable operation.

- Gaskets around blade and under motor housing provide low internal leakage and very low external leakage

Honeywell Home

Part No.	Diameter (In.)	Width (In.)	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
RRD5	5.00	12.30	4.10	12.50	3.00
RRD6	6.00	12.30	4.10	12.30	3.60
RRD8	8.00	12.40	4.00	12.50	3.70
RRD7	7.00	12.40	4.00	12.40	3.40


CPRD8

ROUND BYPASS

By replacing the old weight system with a simple crank, Honeywell has created one of the most game changing bypass damper innovations to come along in years. Installation that used to take one to two hours now takes just 15 minutes.

- No weights to balance
- Can be installed in any orientation, including angles
- Designed to provide constant pressure relief regardless of blower speed
- 5-Year Warranty

Honeywell Home

Part No.	Diameter (In.)	CFM	Width (In.)	Height (In.)	Length (In.)	Ship Wgt (Lbs.)
CPRD8	8.00	Up to 600	10.25	10.25	11.25	4.00
CPRD10	10.00	Up to 1000	12.25	11.00	13.25	7.00
CPRD12	12.00	Up to 1400	14.38	13.88	15.38	8.00
CPRD14	14.00	Over 1400	16.38	15.13	17.38	10.00

DRAFT INDUCER

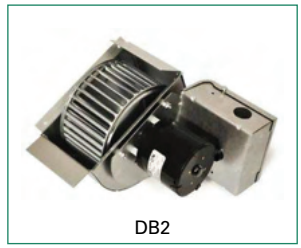

DJ3

Assures a positive draft where down drafts, negative building pressures, undersized flues or long horizontal vent pipe runs are present. To be used only for vertical applications.

TJERNLUND PRODUCTS, INC.

Part No.	Description
DJ3	Draft inducer

BOOSTER FAN


DB2

SURFACE

TJERNLUND PRODUCTS, INC.

Part No.	Description
DB2	Fits round or flat forced air heating/cooling ductwork. Boosts air flow up to 275 CFM.


HP610001202CT

IN-LINE DUCT FAN HEATER

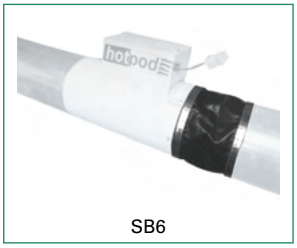
- Use to heat cold rooms or additions without upgrading central system
- Fan only operation for increased cfm output for A/C cycles
- Two stage operation
- 120V corded and hard wire models available
- 10' Cord length on corded models
- Zero clearance for all models
- All models include UT8003 low voltage thermostat
- Optional wireless thermostat
- Silent boot option available for rigid duct applications

hotpod

Part No.	Description	Diameter (In.)	CFM	Watts
HP610001202CT*	6" Inlet, Hardwire	6.00	130	1000/500
HP814401202CT*	8" Inlet, Hardwire	8.00	210	1440/720

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BOOSTER FAN



SB6

HOTPOD ACCESSORIES

The silent boots can be used with Hotpod models as a noise attenuator

Part No.	Description
SB6*	6" Silent Boot
SB8*	8" Silent Boot
RFKIT5*	RF Thermostat

BELT DRIVE EXHAUST FAN


BDCR131

CENTRIFUGAL DOWNBLAST

- Wide variety of motors available to meet many application needs
- Heavy duty construction
- Standard emergency disconnect switch
- Wall mount application available up to BDCR244
- All models are licensed to bear the AMCA seal
- BDCR models are listed under UL705 File No. E66873

				Dimensions (In.)			
Part No.	Sones	RPM	Curb	W	H	Roof Opening	Wgt (Lbs.)
BDCR131	1/3	1328	CRB19.5	29 1/2	27.00	16	105.00
BDCR152	1/2	1230	CRB23	35.00	31.00	20	120.00
BDCR3053	1 1/2	575	CRB38.5	52.00	40.00	36	335.00

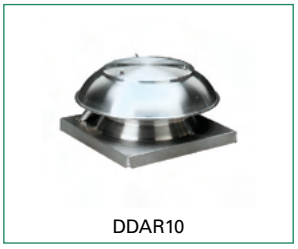

BDU111

CENTRIFUGAL UPBLAST

- Isolated, completely enclosed drive compartment protects motor from airborne contaminants
- Positive, forced-air motor cooling system prolongs fan life and saves on costly servicing and replacement
- A wide variety of motor hp ratings provide a large range of air movement capacities
- Rubber vibration isolators ensure quiet operation
- Wall mount application available up to BDU-244
- All models are UL listed for the removal of smoke and grease laden air (YZHW, 762)
- All models are licensed to bear the AMCA seal

				Dimensions (In.)			
Part No.	Sones	RPM	Curb	W	H	Roof Opening	Wgt (Lbs.)
BDU111	1/3	1710	CRB19.5	25 1/2	24.75	17	105.00
BDU131	1/3	1331	CRB19.5	28 7/8	26.75	17	120.00
BDU152	1/2	1225	CRB23	31 7/8	30.50	21	130.00
BDU182	1/2	913	CRB26.5	38.00	33.75	24	150.00
BDU183	3/4	1044	CRB26.5	38.00	33.75	24	160.00
BDU203	3/4	875	CRB26.5	37 1/4	33.75	24	165.00

DIRECT DRIVE EXHAUST FAN


DDAR10

AXIAL RADIAL

Axial direct drive fans are the perfect low-cost exhaust choice in the areas that have little or no ductwork, and thus, relatively low to moderate resistance.

- Models DDAR10 thru DDAR20 are licensed to bear the AMCA seal and are listed under UL705 (Electrical) File 66873

				Dimensions (In.)			
Part No.	Sones	RPM	Curb	W	H	Roof Opening	Wgt (Lbs.)
DDAR10	1/30	1500	CRB17.5	18.00	9.00	13	12.00
DDAR12	1/10	1500	CRB17.5	21 1/2	11.00	13	20.00
DDAR14	1/6	1100	CRB19.5	27.00	14.00	16	34.00
DDAR18	1/3	1100	CRB24.5	34.00	16.00	20	46.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


DR33

CENTRIFUGAL RADIAL EXHAUST

				Dimensions (In.)			
Part No.	Sones	RPM	Curb	W	H	Roof Opening	Wgt (Lbs.)
DR33	1/3	1725	CRB20.5	27 5/8	23.50	16	40.00
DR50	1/2	1720	CRB20.5	27 5/8	23.50	16	45.00
DR75	3/4	1745	CRB19.5	28 1/4	25.50	20	70.00


CFA100FA

WALL & IN-LINE

The FloAire CFA Series of ceiling, wall and in-line ventilators are designed with performance versatility and ease of maintenance in mind. Aluminum in-line panels are standard on all units.

- Versatile design provides multiple mounting arrangements
- Built in back draft damper

Part No.	Watts	HP	Wgt (Lbs.)
CFA100FA	88	0.7	23.00
CFA150FA	96	1.4	23.00
CFA200FA	124	1.6	23.00
CFA250FA	160	2.3	23.00

EXHAUST FAN ACCESSORIES


I13.5

BACK DRAFT DAMPER

All dampers are square frame, 4 3/4" deep and have 7/8" top flange. These all-aluminum, self-acting back draft dampers work on a pneumatic principle opening only when fans are in operation, and automatically closing when fans are turned off. Aluminum, multi-leaf, interconnected blades with stainless steel sleeve bearings are set into square frames designed to be mounted inside of curb or framed in opening between the exhaust fan and the ductwork. Dampers are not designed for use with up-blast units that exhaust grease-laden vapors.

	Dimensions (In.)		
Part No.	L	W	Wgt (Lbs.)
I13.5	13 1/4	13 1/4	5.00
I16	16.00	16.00	6.00
I21	21.00	21.00	8.00

FAN BLADE


22272CCW

2-WING

Adaptable hub assembled fan blades designed with square pressure blades required in air cooled condensers, package units, residential outdoor units. Use with interchangeable hubs.

- Maximum RPM: 1625—through 16"; 1140—18-24"
- CFM and BHP rating conditions: 1075 RPM and .1" S.P. through 16"; 1140 RPM and .1" S.P. 18-24"

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM	Rotation
22272CCW*	22.00	27	5010	0.4	1140	CCW

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN BLADE


10233CCW

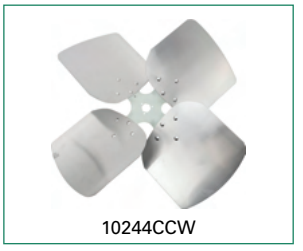
3-WING

Adaptable hub assembled fan blades designed with square pressure blades required in air cooled condensers, package units, residential outdoor units. Use with interchangeable hubs.

- CW rotation pictured
- Maximum RPM: 1625—through 16"; 1140—18-24"
- CFM and BHP rating conditions: 1075 RPM and .1" S.P. through 16"; 1140 RPM and .1" S.P. 18-24"

Law Industries, Inc.

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM	Rotation
10233CCW*	10.00	23	260	0.02	1625	CCW
10273CCW*	10.00	27	320	0.02	1625	CCW
10273CW*	10.00	27	320	0.02	1625	CW
12233CCW*	12.00	23	550	0.02	1625	CCW
12233CW	12.00	23	550	0.02	1625	CW
14233CCW*	14.00	23	890	0.04	1625	CCW
14233CW	14.00	23	890	0.04	1625	CW
14273CCW*	14.00	27	1000	0.04	1625	CCW
16193CCW*	16.00	19	960	0.03	1625	CCW
16193CW*	16.00	19	960	0.03	1625	CW
16223CCW*	16.00	23	1160	0.06	1625	CCW
16223CW*	16.00	23	1160	0.06	1625	CW
18233CW*	18.00	23	2280	0.13	1140	CW
18333CCW*	18.00	33	3000	0.24	1140	CCW
18333CW*	18.00	33	3000	0.24	1140	CW
20333CCW	20.00	33	4410	0.42	1140	CCW
20333CW	20.00	33	4410	0.42	1140	CW
22273CCW*	22.00	27	5010	0.4	1140	CCW
22273CW	22.00	27	5010	0.4	1140	CW
22333CCW*	22.00	33	5820	0.55	1140	CCW
22333CW*	22.00	33	5820	0.55	1140	CW
24273CCW*	24.00	27	6430	0.64	1140	CCW
24273CW	24.00	27	6430	0.64	1140	CW
24333CCW*	24.00	33	7680	0.95	1140	CCW
24333CW*	24.00	33	7680	0.95	1140	CW


10244CCW

4-WING

- CW rotation pictured
- Maximum RPM: 1625—through 16"; 1140—18-24"
- CFM and BHP rating conditions: 1075 RPM and .1" S.P. through 16"; 1140 RPM and .1" S.P. 18-24"

Law Industries, Inc.

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM	Rotation
10244CCW*	10.00	24	250	0.02	1625	CCW
10244CW*	10.00	24	250	0.02	1625	CW
10274CCW*	10.00	27	340	0.02	1625	CCW
10274CW*	10.00	27	340	0.02	1625	CW
10334CCW*	10.00	33	380	0.02	1625	CCW
10334CW	10.00	33	380	0.02	1625	CW
12194CCW*	12.00	19	560	0.02	1625	CCW
12194CW*	12.00	19	560	0.02	1625	CW
12234CCW	12.00	23	610	0.03	1625	CCW
12234CW	12.00	23	610	0.03	1625	CW
12274CCW*	12.00	27	620	0.03	1625	CCW
12274CW*	12.00	27	620	0.03	1625	CW
12334CCW	12.00	33	770	0.03	1625	CCW
12334CW	12.00	33	770	0.03	1625	CW
14204CW*	14.00	20	810	0.03	1625	CW
14234CCW	14.00	23	880	0.04	1625	CCW
14234CW	14.00	23	880	0.04	1625	CW
14264CCW*	14.00	26	970	0.05	1625	CCW
14264CW*	14.00	26	970	0.05	1625	CW
14334CCW*	14.00	33	1160	0.07	1625	CCW
14334CW	14.00	33	1160	0.07	1625	CW
16194CW*	16.00	19	1490	0.08	1625	CW
16234CCW	16.00	23	1510	0.1	1625	CCW
16234CW	16.00	23	1510	0.1	1625	CW
16264CCW*	16.00	26	1690	0.12	1625	CCW
16274CW*	16.00	26	1690	0.12	1625	CW
16334CCW*	16.00	33	2020	0.16	1625	CCW
16334CW	16.00	33	2020	0.16	1625	CW
18234CW	18.00	24	2360	0.16	1140	CW
18274CCW	18.00	27	2690	0.18	1140	CCW
18274CW	18.00	27	2690	0.18	1140	CW
18334CCW*	18.00	33	3190	0.28	1140	CCW
18334CW	18.00	33	3190	0.28	1140	CW
20234CCW	20.00	23	3390	0.35	1140	CCW
20234CW	20.00	23	3390	0.35	1140	CW
20274CCW*	20.00	27	3120	0.23	1140	CCW
20274CW	20.00	27	3120	0.23	1140	CW
20334CCW	20.00	33	4780	0.54	1140	CCW
20334CW	20.00	33	4780	0.54	1140	CW
22234CCW	22.00	23	4400	0.4	1140	CCW
22234CW	22.00	23	4400	0.4	1140	CW
22274CCW	22.00	27	5210	0.44	1140	CCW
22274CW	22.00	27	5210	0.44	1140	CW
22334CCW*	22.00	33	6100	0.68	1140	CCW
22334CW	22.00	33	6100	0.68	1140	CW

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM	Rotation
24234CCW	24.00	23	6100	0.45	1140	CCW
24234CW	24.00	23	6100	0.45	1140	CW
24274CCW	24.00	27	6970	0.74	1140	CCW
24274CW	24.00	27	6970	0.74	1140	CW
24334CCW*	24.00	33	8240	1.1	1140	CCW
24334CW	24.00	33	8240	1.1	1140	CW
26274CCW	26.00	27	8570	0.99	1140	CCW
26244CW	26.00	24	7120	0.86	1140	CW
26274CW	26.00	27	8570	0.99	1140	CW
26334CCW*	26.00	33	10100	1.4	1140	CCW
26334CW*	26.00	33	10100	1.4	1140	CW
18244CCW*	18.00	24	2360	0.16	1140	CCW

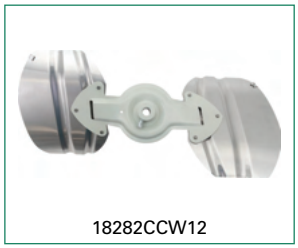


16265CCW

5-WING

- Maximum RPM:
1725—through 18"
1550—20"
1140—22 and 24"
- CFM and BHP rating conditions:
1625 RPM and .1" S.P. through 18";
1075 RPM and .1"
S.P. 20-24"
- CW rotation pictured

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM	Rotation
16265CCW*	16.00	26	2750	0.5	1725	CCW
16265CW*	16.00	26	2750	0.5	1725	CW
16335CCW*	16.00	33	3350	0.75	1725	CCW
16335CW*	16.00	33	3350	0.75	1725	CW
18275CCW*	18.00	27	3900	0.75	1725	CCW
18275CW*	18.00	27	3900	0.75	1725	CW
18335CCW*	18.00	33	5000	1.5	1725	CCW
18335CW	18.00	33	5000	1.5	1725	CW
20275CCW*	20.00	27	3350	0.5	1550	CCW
20275CW*	20.00	27	3350	0.5	1550	CW
20335CCW*	20.00	33	3800	0.75	1550	CCW
20335CW*	20.00	33	3800	0.75	1550	CW
22285CCW*	22.00	28	4350	0.75	1140	CCW
22285CW*	22.00	28	4350	0.75	1140	CW
22335CCW*	22.00	33	5150	1.0	1140	CCW
24285CCW*	24.00	28	5750	1.0	1140	CCW
24335CCW*	24.00	33	7100	1.5	1140	CCW
24335CW*	24.00	33	7100	1.5	1140	CW

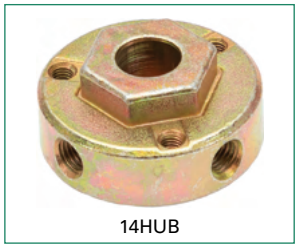


18282CCW12

FIXED HUB

These blades are assembled complete with 1/2" permanent hub.

Part No.	Diameter (In.)	Blade Pitch °	Rotation
18282CCW12	18.00	28	CCW
20282CCW12*	20.00	28	CCW



14HUB

UNIVERSAL HUB

Universal hex hubs for use with adaptable fan blades.

Part No.	Bore (In.)
14HUB*	1/4
516HUB	5/16
38HUB	3/8
12HUB	1/2
58HUB	5/8
34HUB*	3/4



R24274CW

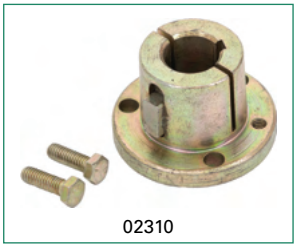
LARGE DIAMETER BLADE

Designed for use in air circulators, cooling towers, and air cooled condensing units. Designed for heavy duty, large air volume applications. Must use with split taper hub. 4 bladed fans, clockwise rotation.

Part No.	Diameter (In.)	Blade Pitch °	CFM	BHP	Max. RPM
R24274CW*	24.00	27	5560 @ 1000 RPM	0.45	1350
60833001*	26.00	27	7470 @ 1000 RPM	0.78	1140
60833101*	28.00	27	7840 @ 850 RPM	0.7	1000
R30274CW*	30.00	27	8750 @ 850 RPM	0.85	1000
R36274CW*	36.00	27	13820 @ 720 RPM	1.44	820
R42274CW*	42.00	27	17010 @ 600 RPM	1.77	710
R60274CW*	60.00	27	32330 @ 400 RPM	2.84	500

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN BLADE


02310

SPLIT TAPER HUB, 54" TO 60" BLADE

Part No.	Blade Pitch °	Shaft Dia. (In.)
02310*	60	1


95628

SMALL DIAMETER HUBLESS

Typically for use with threaded shaft unit bearing motors

- 5 wing blades
- Maximum RPM: 3600—6 to 9" blades
  2500—10" blades

Part No.	Diameter (In.)	Blade Pitch °	CFM	Max. RPM	Rotation
95628*	6.00	28	291	3600	CW
95629*	6.00	28	291	3600	CCW
95711*	7.00	15	274	3600	CW
95721*	7.00	20	274	3600	CW
95722*	7.00	20	274	3600	CCW
95723*	7.00	25	400	3600	CW
95731*	7.00	30	425	3600	CW
95732*	7.00	30	425	3600	CCW
95741*	7.00	40	600	3600	CW
95735*	7 3/4	23	480	3600	CW
95737*	7 3/4	31	480	3600	CW
95821*	8.00	20	500	3600	CW
95823*	8.00	25	550	3600	CW
95831*	8.00	30	650	3600	CW
95832*	8.00	30	650	3600	CCW
95841*	8.00	40	850	3600	CW
95842*	8.00	40	850	3600	CCW
95875*	8 3/4	25	730	3600	CW
95923*	9.00	25	725	3600	CW
95931*	9.00	30	800	3600	CW
95932*	9.00	30	800	3600	CCW
95941*	9.00	40	850	3600	CW
95021*	10.00	20	825	2500	CW
95027*	10.00	28	875	2500	CW
95031*	10.00	31	925	2500	CW
95032*	10.00	31	925	2500	CCW


S7451

SMALL DIAMETER HUBBED

5-wing small diameter blades with hub on intake side. Typical applications include evaporators, refrigeration condensing units, ventilators and ice machines.

Part No.	Diameter (In.)	Blade Pitch °	CFM	Max. RPM	Bore (In.)	Rotation
S7451*	5 1/2	19	180	3450	1/4	CW
S7452*	5 1/2	19	180	3450	1/4	CCW
S7471*	7.00	21	425	3450	1/4	CW
S7472*	7.00	21	425	3450	1/4	CCW
S7481*	8.00	24	525	3450	1/4	CW
S7482*	8.00	24	525	3450	1/4	CCW
S7493*	10.00	20	450	1725	1/4	CW
S7571*	7.00	27	425	3450	5/16	CW
S7572*	7.00	27	425	3450	5/16	CCW
S7581*	8.00	24	525	3450	5/16	CW
S7582*	8.00	24	525	3450	5/16	CCW
S7584*	8.00	32	675	3450	5/16	CCW
S7591*	9.00	26	725	3450	5/16	CW
S7592*	9.00	26	725	3450	5/16	CCW
S7593*	10.00	20	650	1725	5/16	CW
S7594*	10.00	20	650	1725	5/16	CCW
S7595*	10.00	31	650	1725	5/16	CW
S7596*	10.00	31	650	1725	5/16	CCW


FB401

PLASTIC ONE PIECE

- Celcon® plastic blade
- Lightweight
- Reduces bearing wear
- Integral hub (normally used with skeleton frame motors)
- CW: colored white
- CCW: colored gray

Part No.	Diameter (In.)	Bore (In.)	Nb. of Blades	Rotation
FB401	4.00	1/8	5	CW
FB402	4.00	3/16	5	CW
FB403	4.00	1/8	5	CCW
FB404	4.00	3/16	5	CCW
FB501	5.00	3/16	5	CW
FB504	5.00	3/16	5	CCW
FB550	5 1/2	3/16	4	CCW

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BLOWER WHEEL


16038

SINGLE INLET, SMALL DIAMETER

- Condensers
- Small appliances
- Furnaces
- Draft booster
- Flue exhaust
- Rotation viewed side opposite hub

FASCO

(looking into cage)

Part No.	Diameter (In.)	Width (In.)	Bore (In.)	RPM	Rotation
16038	3.00	1 7/8	1/4	5000	CW
16039	3.00	1 7/8	1/4	5000	CCW
16040	3 13/16	1 7/8	1/4	5000	CCW
16041	3 13/16	1 7/8	1/4	5000	CW
16043	3 13/16	1 7/8	5/16	5000	CW
16044	3 13/16	2 1/2	5/16	5000	CW
16045	3 13/16	2 1/2	5/16	5000	CCW
16113	3 27/32	1.00	1/4	5800	CW
16114	3 27/32	1 1/4	1/4	5600	CW
16051	3 27/32	1 13/64	1/4	5640	CCW
16141	4.00	1 1/2	5/16	3600	CCW
16133	4.00	2 1/2	1/4	3600	CCW
16046	4 1/4	2.00	1/4	4500	CCW
16047	4 1/4	2.00	5/16	4500	CCW
16052	4 1/4	2 15/16	1/4	4500	CCW
16160	4 17/32	1 1/4	5/16	6300	CW
16161	4 17/32	1 1/4	5/16	6300	CCW
16000	4 23/32	2 15/16	5/16	3600	CCW
16054	5 13/64	2 29/32	5/16	3600	CCW
1-6060	6 3/16	2 15/16	3/8	3000	CCW
16143	5 3/4	1 1/2	5/16	3600	CCW
16066	7 1/8	2.00	5/16	2900	CCW


16027

SINGLE INLET, SMALL DIAMETER

- Condensers
- Small appliances
- Furnaces
- Draft booster
- Flue exhaust
- Rotation viewed side opposite hub

FASCO

(looking into cage)

Part No.	Diameter (In.)	Width (In.)	Bore (In.)	RPM	Rotation
16027	9 31/32	6.00	1/2	1100	CW
16005	7 1/8	4.00	1/2	1500	CW
16006	8 5/64	4.00	1/2	1650	CW
16074	8 5/64	4.00	1/2	1650	CCW
16064	6 25/64	4.00	1/2	1700	CCW
16076	8 35/64	3.00	1/2	2050	CW
16010	6.00	3 1/4	1/2	2400	CCW


2-6011

DOUBLE INLET/DIRECT DRIVE

Applications

- Condensers
- Small appliances
- Furnaces
- Rotation viewed hub side
- Galvanized steel (26033, 26034 are aluminum)

FASCO

Part No.	Diameter (In.)	Width (In.)	Bore (In.)	RPM	Rotation
2-6011	4 7/8	7.00	1/2	3600	CW
26012	5 1/4	7.00	1/2	3600	CCW
26030	5 1/4	7.00	1/2	3600	CW
26013	5 1/2	6 1/2	1/2	2500	CW
26014	5 1/2	6 1/2	1/2	2500	CCW
26031	5 3/4	7 5/8	1/2	3000	CW
26032	5 3/4	7 5/8	1/2	3000	CCW
26033	5 3/4	7 7/8	1/2	1700	CW
26084	6 3/16	7 5/8	1/2	3000	CW
26085	6 3/16	7 5/8	1/2	3000	CCW
26083	6 3/8	7.00	1/2	2050	CW
26015	6 3/8	7.00	1/2	2050	CCW
26034	6 3/8	8.00	1/2	1500	CW
26018	7 1/2	9.00	1/2	1600	CW
26093	10 3/4	7.00	1/2	1350	CW
26022	10 3/4	10 1/2	1/2	1150	CW


01333602

DOUBLE INLET/DIRECT DRIVE

Universal replacement wheels have a special hub for use with direct drive blowers. All standard replacement wheels are galvanized, cold-rolled steel. (C) CW-X rotation wheels have hub cups that are accessible through the wheel blades.

- Maximum temperature: 200°F
- Rotation determined viewing hub side

Lau Industries, Inc.

Part No.	Diameter (In.)	Model	Width (In.)	Bore (In.)	Rotation
01333602*1	9 1/2	DD9-7A	7 1/8	1/2	CW-X
01333603*1	9 1/2	DD9-7A	7 1/8	1/2	CCW-X
01333701*1	9 1/2	DD9-8A	8.00	1/2	CW-X
01333703*1	9 1/2	DD9-8A	8.00	1/2	CCW-X
01333201*2	9 1/2	DD9-9A	9 1/2	1/2	CW-V
01333203*2	9 1/2	DD9-9A	9 1/2	1/2	CCW-V
01332701*1	11 1/8	DD10-4A	4 1/2	1/2	CW-X
01332601*1	11 1/8	DD10-6A	6.00	1/2	CW-X
01332602*1	11 1/8	DD10-6A	6.00	1/2	CCW-X
01332501*1	11 1/8	DD10-7A	7 1/8	1/2	CW-X
02710204*1	11 1/8	DD10-7A	7 1/8	1/2	CCW-X
01332402*1	11 1/8	DD10-8A	8.00	1/2	CCW-X
01331701*2	11 1/8	DD10-9A	9 1/2	1/2	CW-V
01332301*1	11 1/8	DD10-9A	9 1/2	1/2	CW-X
01332203*1	11 1/8	DD10-10A	10 5/8	1/2	CW-X

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BLOWER WHEEL

Part No.	Diameter (In.)	Model	Width (In.)	Bore (In.)	Rotation
01331602*[2]	11 1/8	DD10-10A	10 5/8	1/2	CW-V
01331606*[2]	11 1/8	DD10-10A	10 5/8	1/2	CCW-V
02694007*[1]	12 1/4	DD11-8A	8.00	1/2	CW-X
02694008*[1]	12 1/4	DD11-8A	8.00	1/2	CCW-X
02694009*[1]	12 1/4	DD11-9A	9 1/2	1/2	CW-X
02694010*[1]	12 1/4	DD11-9A	9 1/2	1/2	CCW-X
02694111*[2]	12 1/4	DD11-10A	10 5/8	1/2	CW-V
02694112*[2]	12 1/4	DD11-10A	10 5/8	1/2	CCW-V
01369325*[1]	13 3/16	DD12-9A	9 1/2	1/2	CW-X
01369315*[1]	13 3/16	DD12-9A	9 1/2	5/8	CW-X
01556507*[2]	13 3/16	DD12-12A	12 5/8	1/2	CW-V
01556504*[2]	13 3/16	DD12-12A	12 5/8	5/8	CW-V

[1] Convex hub cup [2] Concave hub cup



00862112

DOUBLE INLET/BELT DRIVE

Universal replacement wheels with two hubs for rotation in either direction.

- Galvanized

Lau Industries, Inc.

Part No.	Diameter (In.)	Model	Width (In.)	Bore (In.)	Rotation
00862112*	9 1/2	A9-7A	7 1/8	3/4	REV
00851912*	9 1/2	A9-9A	9 1/2	3/4	REV
00836112*	10 5/8	A10-8A	8.00	3/4	REV
00836212*	10 5/8	A10-9A	9 1/2	3/4	REV
00850716*	13 3/16	A12-9A	9 1/2	1	REV
00836012*	10 5/8	A10-10A	10 5/8	3/4	REV
00850758GAL*	13 3/16	A12-9A	9 1/2	1 3/16	REV
00836016*	10 5/8	A10-10A	10 5/8	1	REV
00840316*	13 3/16	A12-12A	12 5/8	1	REV
00840393*	13 3/16	A12-12A	12 5/8	1 3/16	REV
00874716*	13 3/16	A12-15A	15.00	1	REV
00841877*	15 1/2	A15-11A	11 1/8	1 3/16	REV
00827616*	15 1/2	A15-15A	15.00	1	REV
00874616*	15 1/2	A15-12A	12 5/8	1	REV
01767137*	15 1/2	A15-15A	15.00	1 3/16	REV
00827672*	15 1/2	A15-15A	15.00	1 7/16	REV
00865916*	18 5/8	A18-13A	13 1/2	1	REV
00865816*	18 5/8	A18-18A	18.00	1	REV
00865874*	18 5/8	A18-18A	18.00	1 3/16	REV
00865887*	18 5/8	A18-18A	18.00	1 7/16	REV

FAN BLADE ACCESSORIES



PG

PITCH GAUGE

Determine degree of pitch and rotation of any fan blade.

Lau Industries, Inc.

Part No.	Description
PG*	Pitch Gauge



UP1

FAN PULLER

Sensible Products®

Part No.	Description
UP1	Fan Blade Puller



HP2

HUB PULLER ADAPTER SET

Simplifies the removal of many industrial and automotive fans and blower wheels by providing a solid connection between the puller and fan hub.

Can be used on: chillers, freezers, condensers, ice machines, furnace fans, convection ovens, ice cream machines, exhaust and ventilation fans, defrost and AC fans.

Sensible Products®

Part No.	Description	Includes
HP2	Hub Puller Adaptor Set	One 104 (3 Jaw 4" 5Ton Puller), One HP-30 (Small Collar Adaptor), One HP-40 (Large Collar Adaptor), One HP-70 (Tip Reducer/Extender), One Carrying Case (13" x 9.5" x 5.5")

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BLOWER ASSEMBLY



38243420M

BELT DRIVE

Add motor and drive pulleys for complete assembly. Includes mounting hardware to set up for universal application. Performance at 1/2" static pressure. Outlet length is overall depth.

	Median Performance			Oulet Dimensions (In.)		Overall Dimensions (In.)		
Part No.	CFM	RPM	BHP	L	Size	L	W	Shaft Size (In.)
38243420M*	2000	596	0.37	15 3/4	13 7/16	20.44	19.31	1



02917501

BEARING BRACKET KIT

Especially designed to fit most blowers from 9" to 16" sizes. This sturdy, compact, 10-gauge steel bearing and bracket is completely assembled and ready to mount. The sintered bronze ball assembly is securely held in a spherical rubber isolating liner to assure maximum absorption of vibration, quiet operation, constant self-alignment and long life. Packaged in pairs with shaft and hardware.

	Shaft (In.)		
Part No.	Dia.	L	HP
02917501*	3/4	20	3/4 Max
02917601*	1	25	1 Max



38252101

MOTOR MOUNTING HARDWARE

Part No.	Description
38252101*	Tailpieces (3), Screws, Bolts
38252301*	Tailpiece Only
38252501*	Grommets Only (6)
38220901*	Vibropads (12) - Resilient rubber pads snap easily into place. 5/16" hole, 7/8" diameter, 5/8" high.

POWER TRANSMISSION

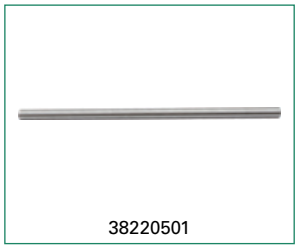


02750203

SHAFT BUSHING

To adapt 1" bore pulley to 3/4" shaft

Part No.	Description
02750203*	1" x 3/4" Shaft Bushing



38220501

SHAFT STOCK

Premium shafting is ground and polished 1018 cold rolled steel. Excess shaft may be cut off. Keyways and/or flats are to be added as required in the field.

Part No.	Length (In.)	Dia. (In.)
38220501*	20.00	5/8
38209601*	20.00	3/4
38269301*	35.00	3/4
38209501*	25.00	1.00
38249201*	35.00	1.00



1VL25X1/2-B

VARIABLE PITCH MOTOR PULLEY, SINGLE GROOVE, LIGHT DUTY

Variable pitch motor pulley, single groove, for light duty applications for light duty applications to 5HP

			Belt Pitch (In.)		
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L
1VL25X1/2-B	2.50	1/2	1.6 to 2.4	-	-
1VL25X5/8-B	2.50	5/8	1.6 to 2.4	-	-
1VL30X1/2-B	2.87	1/2	1.8 to 2.7	-	-
1VL30X5/8-B	2.87	5/8	1.8 to 2.7	-	-
1VL34X1/2-B	3.15	1/2	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3
1VL34X5/8-B	3.15	5/8	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3
1VL34X3/4-B	3.15	3/4	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3
1VL40X1/2-B	3.75	1/2	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8
1VL40X5/8-B	3.75	5/8	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8
1VL40X3/4-B	3.75	3/4	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8
1VL40X7/8-B	3.75	7/8	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8
1VL44X1/2-B	4.15	1/2	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2
1VL44X5/8-B	4.15	5/8	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2
1VL44X3/4-B	4.15	3/4	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2
1VL44X7/8-B	4.15	7/8	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2
1VM50X5/8-B	4.75	5/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

POWER TRANSMISSION

			Belt Pitch (In.)		
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L
1VM50X3/4-B	4.75	3/4	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8
1VM50X7/8-B	4.75	7/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8



1VP34X1/2-B

VARIABLE PITCH MOTOR PULLEY, SINGLE GROOVE, HEAVY DUTY

Variable pitch motor pulley, single groove, for light duty applications to 25 HP

Browning

			Belt Pitch (In.)			
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L	5V
1VP34X1/2-B	3.15	1/2	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3	-
1VP34X5/8-B	3.15	5/8	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3	-
1VP34X7/8-B	3.15	3/4	1.7 to 2.5	2.0 to 3.0	2.5 to 3.3	-
1VP40X1/2-B	3.75	1/2	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8	-
1VP40X5/8-B	3.75	5/8	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8	-
1VP40X7/8-B	3.75	7/8	2.3 to 3.1	2.6 to 3.6	2.8 to 3.8	-
1VP44X1/2-B	4.15	1/2	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2	-
1VP44X5/8-B	4.15	5/8	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2	-
1VP44X7/8-B	4.15	7/8	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2	-
1VP44X1-1/8-B	4.15	1 1/8	2.7 to 3.5	3.0 to 4.0	3.2 to 4.2	-
1VP50X5/8-B	4.75	5/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8	-
1VP50X7/8-B	4.75	7/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8	-
1VP50X1-1/8-B	4.75	1 1/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8	-
1VP56X5/8-B	5.35	5/8	3.9 to 4.7	4.2 to 5.2	4.4 to 5.4	-
1VP56X7/8-B	5.35	7/8	3.9 to 4.7	4.2 to 5.2	4.4 to 5.4	-
1VP56X1-1/8-B	5.35	1 1/8	3.9 to 4.7	4.2 to 5.2	4.4 to 5.4	-
1VP60X7/8-B	6.00	7/8	-	4.4 to 5.4	4.7 to 5.9	4.7 to 5.9
1VP60X1-1/8-B	6.00	1 1/8	-	4.4 to 5.4	4.7 to 5.9	4.7 to 5.9
1VP60X1-3/8-B	6.00	1 3/8	-	4.4 to 5.4	4.7 to 5.9	4.7 to 5.9
1VP62X7/8-B	5.95	7/8	-	4.7 to 5.9	4.4 to 5.4	4.9 to 5.9

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			Belt Pitch (In.)			
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L	5V
1VP62X1-1/8-B	5.95	1 1/8	-	4.7 to 5.9	4.4 to 5.4	4.9 to 5.9
1VP65X1-1/8-B	6.50	1 1/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
1VP65X1-3/8-B	6.50	1 3/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
1VP68X1-1/8-B	6.55	1 1/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
1VP68X1-3/8-B	6.55	1 3/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
1VP71X1-1/8-B	7.10	1 1/8	-	5.5 to 6.5	5.8 to 7.0	5.8 to 7.0
1VP71X1-3/8-B	7.10	1 3/8	-	5.5 to 6.5	5.8 to 7.0	5.8 to 7.0



2VP42X3/4-B

VARIABLE PITCH MOTOR PULLEY, DUAL GROOVE, HEAVY DUTY

Variable pitch motor pulley, dual groove, for heavier duty applications to 25HP

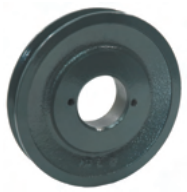
Browning

			Belt Pitch (In.)			
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L	5V
2VP42X3/4-B	3.95	3/4	1.9 to 2.7	2.2 to 3.2	2.6 to 3.4	-
2VP42X5/8-B	3.95	5/8	1.9 to 2.7	2.2 to 3.2	2.6 to 3.4	-
2VP42X7/8-B	3.95	7/8	1.9 to 2.7	2.2 to 3.2	2.6 to 3.4	-
2VP42X1-1/8-B	3.95	1 1/8	1.9 to 2.7	2.2 to 3.2	2.6 to 3.4	-
2VP50X7/8-B	4.75	7/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8	-
2VP50X1-1/8-B	4.75	1 1/8	3.3 to 4.1	3.6 to 4.6	3.8 to 4.8	-
2VP56X1-1/8-B	5.35	1 1/8	3.9 to 4.7	4.2 to 5.2	4.4 to 5.4	-
2VP60X1-1/8-B	6.00	1 1/8	-	4.4 to 5.4	4.7 to 5.9	4.9 to 5.9
2VP60X1-3/8-B	6.00	1 3/8	-	4.4 to 5.4	4.7 to 5.9	4.9 to 5.9
2VP62X1-3/8-B	5.95	1 3/8	-	4.4 to 5.4	4.7 to 5.9	4.7 to 5.9
2VP65X7/8-B	6.50	7/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP65X1-1/8-B	6.50	1 1/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP65X1-3/8-B	6.50	1 3/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP65X1-5/8-B	6.50	1 5/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP68X1-1/8-B	6.55	1 1/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP68X1-3/8-B	6.55	1 3/8	-	4.9 to 5.9	5.2 to 6.4	5.2 to 6.4
2VP71X1-1/8-B	7.10	1 1/8	-	5.5 to 6.5	5.8 to 7.0	5.8 to 7.0
2VP71X1-3/8-B	7.10	1 3/8	-	5.5 to 6.5	5.8 to 7.0	5.8 to 7.0

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

			Belt Pitch (In.)			
Part No.	Dia. (In.)	Bore (In.)	3L	4L	5L	5V
2VP71X1-5/8-B	7.10	1 5/8	-	5.5 to 6.5	5.8 to 7.0	5.8 to 7.0


AK30H

FIXED PITCH, 1 GROOVE, "A" BELT, SPLIT TAPER HUB

- Use "H" Hub

		Belt Pitch (In.)	
Part No.	Dia. (In.)	3L	4L
AK30H	3.05	2.46	2.8
AK32H	3.25	2.66	3.0
AK34H	3.45	2.86	3.2
AK39H	3.75	3.16	3.5
AK41H	3.95	3.36	3.7
AK44H	4.25	3.66	4.0
AK46H	4.45	3.86	4.2
AK49H	4.75	4.16	4.5
AK51H	4.95	4.36	4.7
AK54H	5.25	4.66	5.0
AK56H	5.45	4.86	5.2
AK59H	5.75	5.16	5.5
AK61H	5.95	5.36	5.7
AK64H	6.25	5.66	6.0
AK66H	6.45	5.86	6.2
AK69H	6.75	6.16	6.5
AK71H	6.95	6.36	6.7
AK74H	7.25	6.66	7.0
AK79H	7.75	7.16	7.5
AK84H	8.25	7.66	8.0
AK94H	9.25	8.66	9.0
AK104H	10.25	9.66	10.0
AK144H	14.25	13.66	14.0
AK184H	18.25	17.66	18.0

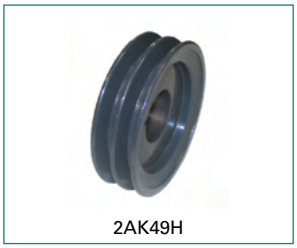

AK20X34

FIXED PITCH, 1 GROOVE, "A" BELT, FIXED HUB

			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	3L	4L
AK20X34	2.00	3/4	1.46	1.8
AK22X34	2.20	3/4	1.66	2.0
AK23X34	2.30	3/4	1.76	2.1
AK25X34	2.50	3/4	1.96	2.3

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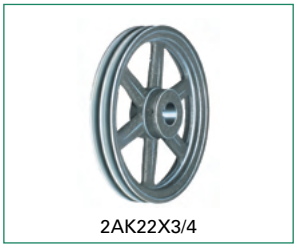
			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	3L	4L
AK28X34	2.80	3/4	2.26	2.6
AK30X34	3.05	3/4	2.46	2.8
AK34X34	3.45	3/4	2.86	3.2
AK41X7/8	3.95	7/8	3.36	3.7
AK41X1	3.95	1	3.36	3.7
AK44X1	4.25	1	3.66	4.0
AK46X34	4.45	3/4	3.86	4.20
AK51X5/8	4.95	5/8	4.36	4.7
AK51X3/4	4.95	3/4	4.36	4.7
AK51X1	4.95	1	4.36	4.7
AK54X1	5.25	1	4.66	5.0
AK59X1	5.75	1	5.16	5.5
AK61X1	5.95	1	5.36	5.7
AK64X1	6.25	1	5.66	6.0
AK71X5/8	6.95	5/8	6.36	6.7
AK71X3/4	6.95	5/8	6.36	6.7
AK74X1-7/16	7.25	1 7/16	6.66	7.0
AK84X5/8	8.40	5/8	7.66	8.0
AK84X1	8.25	1	7.66	8.0
AK99X1	9.75	1	9.16	9.5
AK114X1-7/16	11.25	1 7/16	10.66	11.0
AK124X1	12.25	1	11.66	12.0
AK124X1-7/16	12.25	1 7/16	11.66	12.0
AK144X1-7/16	14.25	1 7/16	13.66	14.0


2AK49H

FIXED PITCH, 2 GROOVE, "A" BELT, HUBLESS

- Use "H" Hub

		Belt Pitch (In.)	
Part No.	Dia. (In.)	3L	4L
2AK49H	4.75	4.16	4.5
2AK74H	7.25	6.66	7.0
2AK94H	9.25	8.66	9.0


2AK22X3/4

FIXED PITCH, 2 GROOVE, "A" BELT, FIXED HUB

			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	3L	4L
2AK22X3/4	2.20	3/4	1.66	2.0
2AK25X1	2.50	1	1.96	2.3
2AK28X1	2.80	1	2.26	2.6
2AK34X1	3.45	1	2.86	3.2

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POWER TRANSMISSION

			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	3L	4L
2AK41X1	3.95	1	3.36	3.7
2AK44X1	4.25	1	3.66	4.0
2AK46X1	4.45	1	3.86	4.2
2AK54X1	5.25	1	4.66	5.0
2AK61X3/4	5.95	3/4	5.36	5.7
2AK74X1	7.25	1	6.66	7.0



BK30H

FIXED PITCH, 1 GROOVE, "B" BELT, SPLIT TAPER HUB

- Use "H" Hub

Browning

		Belt Pitch (In.)	
Part No.	Dia. (In.)	4L	5L
BK30H	3.15	2.4	2.8
BK32H	3.35	2.6	3.0
BK36H	3.75	3.0	3.4
BK40H	3.95	3.2	3.6
BK45H	4.25	3.5	3.9
BK47H	4.45	3.7	4.1
BK50H	4.75	4.0	4.4
BK52H	4.95	4.2	4.6
BK55H	5.25	4.5	4.9
BK60H	5.75	5.0	5.4
BK62H	5.95	5.2	5.6
BK65H	6.25	5.5	5.9
BK67H	6.45	5.7	6.1
BK70H	6.75	6.0	6.4
BK72H	6.95	6.2	6.6
BK75H	7.25	6.5	6.9
BK77H	7.45	6.7	7.1
BK80H	7.75	7.0	7.4
BK85H	8.25	7.5	7.9
BK90H	8.75	8.0	8.4
BK95H	9.25	8.5	8.9
BK100H	9.75	9.0	9.4
BK110H	10.75	10.0	10.4
BK140H	13.75	13.0	13.4
BK160H	15.75	15.0	15.4



BK25X3/4

FIXED PITCH, 1 GROOVE, "B" BELT, FIXED HUB

Browning

			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	4L	5L
BK25X3/4	2.50	3/4	1.9	2.3
BK30X3/4	3.15	3/4	2.4	2.8
BK90X7/8	8.75	7/8	8.0	8.4
BK50X1	4.75	1	4.0	4.4
BK52X1	4.95	1	4.2	4.6
BK60X1	5.75	1	5.0	5.4
BK65X1	6.25	1	5.5	5.9
BK72X1	6.95	1	6.2	6.6
BK80X1	7.75	1	7.0	7.4
BK85X1	8.25	1	7.5	7.9
BK90X1	8.75	1	8.0	8.4
BK90X1-7/16	8.75	1 7/16	8.0	8.4
BK100X1-7/16	9.75	1 7/16	9.0	9.4
BK120X1-7/16	11.75	1 7/16	11.0	11.4
BK130X1	12.75	1	12.0	12.4
BK130X1-7/16	12.75	1 7/16	12.0	12.4
BK160X1-7/16	15.75	1 7/16	15.0	15.4
BK190X1-7/16	18.75	1 7/16	18.0	18.4



2BK32H

FIXED PITCH, 2 GROOVE, "B" BELT, SPLIT TAPER HUB

- Use "H" Hub

Browning

		Belt Pitch (In.)	
Part No.	Dia. (In.)	4L	5L
2BK32H	3.35	2.6	3.0
2BK34H	3.55	2.8	3.2
2BK40H	3.95	3.2	3.6
2BK45H	4.25	3.5	3.9
2BK47H	4.45	3.7	4.1
2BK50H	4.75	4.0	4.4
2BK52H	4.95	4.2	4.6
2BK55H	5.25	4.5	4.9
2BK60H	5.75	5.0	5.4
2BK70H	6.75	6.0	6.4
2BK80H	7.75	7.0	7.4
2BK90H	8.75	8.0	8.4
2BK100H	9.75	9.0	9.4
2BK110H	10.75	10.0	10.4
2BK120H	11.75	11.0	11.4
2BK160H	15.75	15.0	15.4


2BK25X3/4

FIXED PITCH, 2 GROOVE, "B" BELT, FIXED HUB

			Belt Pitch (In.)	
Part No.	Dia. (In.)	Bore (In.)	4L	5L
2BK25X3/4	2.50	3/4	1.9	2.3
2BK28X1	2.95	1	2.2	2.6
2BK28X1-1/8	2.95	1 1/8	2.2	2.6
2BK30X1	3.15	1	2.4	2.8
2BK30X1-1/8	3.15	1 1/8	2.4	2.8
2BK32X1	3.35	1	2.6	3.0
2BK32X1-1/8	3.35	1 1/8	2.6	3.0
2BK34X1	3.55	1	2.8	3.2
2BK34X1-1/8	3.55	1 1/8	2.8	3.2
2BK36X1	3.75	1	3.0	3.4
2BK36X1-1/8	3.75	1 1/8	3.0	3.4
2BK40X1	3.95	1	3.2	3.6
2BK40X1-1/8	3.95	1 1/8	3.2	3.6
2BK50X1-3/8	4.75	1 3/8	4.0	4.4
2BK70X1	6.75	1	6.0	6.4
2BK70X1-7/16	6.75	1 7/16	6.0	6.4
2BK80X1-1/8	7.75	1 1/8	7.0	7.4
2BK90X1-3/16	8.75	1 3/16	8.0	8.4


1B5V42

FIXED PITCH, 1 GROOVE, "5V" BELT, SPLIT TAPER HUB

With the introduction of the revolutionary B5V, Browning has brought new technology to V-drive design. B5V packs into only 120 components what previously required some 500 different inventory items. And, you can mix and match B5V with many present drive components for maximum flexibility.

- Use "B" Hub (1B5V42 uses "P1" Hub)

		Belt Pitch (In.)		
Part No.	Dia. (In.)	4L	5L	5V
1B5V42	4.48	3.8	4.2	4.3
1B5V46	4.88	4.2	4.6	4.7
1B5V60	6.28	5.6	6.0	6.1
1B5V80	8.28	7.6	8.0	8.1
1B5V94	9.68	9.0	9.4	9.5
1B5V110	11.28	10.6	11.0	11.1
1B5V124	12.68	12.0	12.4	12.5


2B5V42

FIXED PITCH, 2 GROOVE, "5V" BELT, SPLIT TAPER HUB

With the introduction of the revolutionary B5V, Browning has brought new technology to V-drive design. B5V packs into only 120 components what previously required some 500 different inventory items. And, you can mix and match B5V with many present drive components for maximum flexibility.

- Use "B" Hub (2B5V42 uses "P1" Hub)

		Belt Pitch (In.)		
Part No.	Dia. (In.)	4L	5L	5V
2B5V42	4.48	3.8	4.2	4.3
2B5V46	4.88	4.2	4.6	4.7
2B5V48	5.08	4.4	4.8	4.9
2B5V50	5.28	4.6	5.0	5.1
2B5V52	5.48	4.8	5.2	5.3
2B5V54	5.68	5.0	5.4	5.5
2B5V56	5.88	5.2	5.6	5.7
2B5V58	6.08	5.4	5.8	5.9
2B5V60	6.28	5.6	6.0	6.1
2B5V62	6.48	5.8	6.2	6.3
2B5V64	6.68	6.0	6.4	6.5
2B5V66	6.88	6.2	6.6	6.7
2B5V68	7.08	6.4	6.8	6.9
2B5V70	7.28	6.6	7.0	7.1
2B5V74	7.68	7.0	7.4	7.5
2B5V80	8.28	7.6	8.0	8.1
2B5V86	8.88	8.2	8.6	8.7
2B5V90	9.28	8.6	9.0	9.1
2B5V94	9.68	9.0	9.4	9.5
2B5V110	11.28	10.6	11.0	11.1
2B5V124	12.68	12.0	12.4	12.5
2B5V136	13.88	13.2	13.6	13.7
2B5V154	15.68	15.0	15.4	15.5


2TB56

FIXED PITCH, 2 GROOVE, "A" OR "B" BELT, SPLIT TAPER HUB

Part No.	Dia. (In.)	Bore (In.)
2TB56	5.95	1/2
2TB86	8.95	3/4
2TB110	11.35	3/4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

POWER TRANSMISSION


3TB48

FIXED PITCH, 3 GROOVE, "A" OR "B" BELT, SPLIT TAPER HUB

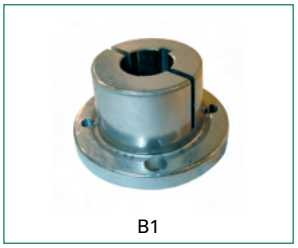
Part No.	Dia. (In.)	Bore (In.)
3TB48	5.15	1/2
3TB86	8.95	3/4


H-1/2

"H" HUB

Use with AK-H, BK-H single and multi groove sheaves

Part No.	Bore (In.)
H-1/2	1/2
H-5/8	5/8
H-3/4	3/4
H-7/8	7/8
H-15/16	15/16
H-1	1
H-1-1/8	1 1/8
H-1-3/16	1 3/16
H-1-1/4	1 1/4
H-1-3/8	1 3/8
H-1-7/16	1 7/16
H1-1/2	1 1/2
H-24MM	24mm
H-25MM	25mm


B1

"B" HUB

Use with B5V sheaves, 1 to 4 groove, 5" OD and larger

Part No.	Bore (In.)
B1	1
B1-1/16	1 1/16
B1-1/8	1 1/8
B1-3/16	1 3/16
B1-1/4	1 1/4
B1-3/8 5/16	1 3/8
B1-7/16	1 7/16
B1-1/2	1 1/2
B1-5/8	1 5/8
B1-11/16	1 11/16
B1-7/8	1 7/8
B1-15/16	1 15/16
B-2	2
B2-1/16	2 1/16
B2-1/8	2 1/8
B2-3/16	2 3/16
B2-1/4	2 1/4
B2-7/16	2 7/16


P1-7/8

"P" HUB

Use P1 with TB sheaves, 1 to 4 groove
Use P2 with TB sheaves, 4 to 6 groove

Part No.	Bore (In.)
P1-7/8	7/8
P1-1-5/8	1 5/8
P2-1X1/8	1 1/8


Q1-1-3/16

"Q" HUB

Use with TB sheaves, 1 to 4 groove

Part No.	Bore (In.)
Q1-1-3/16	1 3/16
Q1-1-3/4	1 3/4
Q1-1-15/16	1 15/16
Q1-2-7/16	2 7/16

SHAFT BEARING



38240401

OIL SLEEVE

Self-aligning, self-oiling, with bronze bushing held in housing under light, uniform spring pressure, providing uniform distribution of lubricant through pores of bushing. Drive type oil cup. Use as replacements in ACE type blower. Package of two.
NOTE: Shipped dry. Lubricate at time of installation with SAE 20 or 30 wt. oil.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38240401*[1]	5/8	1 13/16
38244201*[1]	3/4	1 13/16
38244202*[1]	1	2 1/2

[1] As measured over rubber cushion



38245001

OIL SLEEVE

Self-aligning and self-oiling with sintered bronze bushings and drive type oil cups. Package of two.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38245001*[1]	3/4	1 27/32
38244901*[1]	1	1 27/32
38209401*[2]	1	2 1/2

[1] As measured over rubber cushion [2] As measured over rubber cushion. Heavy duty.



38269601

OIL SLEEVE

Self-oiling with sintered bronze bushings and drive type oil cups. Package of two.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38269601*[1]	3/4	2 1/16
38269701*[1]	1	2 1/16

[1] As measured over rubber cushion



38244301

SEALED SLEEVE

Self-aligning and factory packed with a supply of plastic petroleum assuring proper lubrication during life of bearing. Self-aligning porous bronze sleeve pressed in housing. Use as replacement in ACE type blower. Package of two.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38244301*[1]	5/8	1 13/16
38244303*[1]	1	2 1/2

[1] As measured over rubber cushion



38227201

CARTRIDGE SLEEVE

This cartridge type bearing will fit any spider type bracket used on 9", 10", and 12" blowers. Sintered bronze bushing pressed into steel bearing caps and cushioned in heavy neoprene conductive rubber. Package of two.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)	Comments
38227201*[1]	3/4	1 13/16	With Journal
38209001*[2]	1	1 13/16	2 Pack

[1] As measured over rubber cushion. May permit use with old shaft [2] As measured over rubber cushion



38220401

PILLOW BLOCK SLEEVE

Heavy neoprene cushioned. Reoilable porous bronze bushing in a pressed steel ball unit held firmly in a housing of two-piece interlocking steel. Selfaligning, static free and quiet operating. Package of two.

Part No.	Shaft Dia. (In.)
38220401*	5/8
38208601*	3/4
38208701*	1
38209301*[1]	1

[1] Heavy duty

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SHAFT BEARING


38256701

PILLOW BLOCK BALL

- Durable cast-iron construction
- Prelubricated bearings
- Regreasable
- Temperature range: -30 to 200°F
- Package of two

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38256701*	3/4	1 5/16
38256801*	1	1 7/16
38256901*	1 3/16	1 11/16
38257001*	1 7/16	1 7/8


38258801

SEALED BALL

For use where operating conditions exceed the limit of sleeve bearings or where repetitive failures occur. They are equipped with seals for positive grease retention and protection against contaminants. Includes interlocking thrust collar with insulator. Package of two.

Part No.	Shaft Dia. (In.)	Overall Dia. (In.)
38258801*[1]	3/4	1 13/16
38259001*[1]	1	2 17/32

[1] As measured over rubber cushion


38220301

THRUST SLEEVE KIT

Developed to eliminate end play on sleeve bearing blowers. Plastic sleeve with assortment of spacers make adjustment easy on any size blower. One pair per package.

Part No.	Shaft Dia. (In.)
38220301*	3/4


38243101

THRUST COLLAR KIT

Sheet metal thrust collar kit consists of one pair packaged with thrust washers.

Part No.	Shaft Dia. (In.)
38243101*	5/8
38220601*	3/4
38220701*	1


38249101

THRUST SPACER KIT

- Package of 12

Part No.	Shaft Dia. (In.)
38249101*	5/8
38249102*	3/4
38249103*	1


RUBRS108

SET SCREW BALL

Traditional 3 set screw locking collar, 120° spacing

Part No.	Bore (In.)	Dia. (In.)
RUBRS108	1/2	2 17/32
RUBRS110	5/8	2 17/32
RUBRS112	3/4	2 17/32
RUBRS115	15/16	2 17/32
RUBRS116	1	2 17/32


RUBRB112

BOA CONCENTRIC BALL

Browning BOA concentric ball bearings incorporate a unique concentric locking collar design for better grip on the shaft and less vibration during operation. The BOA-LOC concentric clamp collar, with a single cap screw, provides increased reliability without marring or burring the shaft. The 360° clamping force reduces vibration through improved concentricity.

Part No.	Bore (In.)	Dia. (In.)
RUBRB112	3/4	2 17/32
RUBRB116	1	2 17/32

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


VPS210AH

PILLOW BLOCK BALL

Air handling AH ball bearings are manufactured with a special AH housing fit that allows the bearing more easily selfalign when mounted on lightweight frames. Inner rings are zone hardened to maintain ballpath hardness while keeping inner ring extension soft for a precision set screw hold. Both ballpaths are honed for quieter operation and less vibration.

Part No.	Bore (In.)
VPS210AH	5/8
VPS212AH	3/4
VPS216AH	1
VPS219AH	1 3/16
VPS223AH	1 7/16
VPS227AH	1 11/16
VPS231AH	1 15/16


VPB216AH

BOA PILLOW BLOCK BALL

- Browning BOA concentric collar with a single cap screw provides excellent 360° holding power. Designed to prevent shaft marring or burring and centers the shaft in the bore for less vibration.
- Zone hardened inner race provides a fully hardened ball path while leaving the rest of the inner ring unhardened, allowing better holding power.
- Precision manufactured, diamond faceted set screws improve clamping and resist backing out.
- Pillow block housing with a semi-solid, cast iron base provides an excellent mounting foundation and is integral to prevent sheet metal "buckling".
- Rubber lip contact seal with auxiliary flinger for proven effective sealing against contaminants.

Part No.	Bore (In.)
VPB216AH	1
VPB223AH	1 7/16
VPB227AH	1 11/16
VPB231AH	1 15/16

FAN BELT


3L160-B

3L, LIGHT DUTY

- Outside width: 3/8"
- Thickness: 7/32"

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
3L160-B	16.0	6.85	7/32
3L200-B	20.0	8.70	7/32
3L240-B	24.0	2.80	7/32
3L280-B	28.0	12.35	7/32
3L320-B	32.0	3.55	7/32
3L370-B	37.0	16.05	7/32
3L420-B	42.0	4.80	7/32
3L470-B	47.0	1.00	7/32
3L530-B	53.0	23.05	7/32
3L620-B	62.0	8.10	7/32


4L170-B

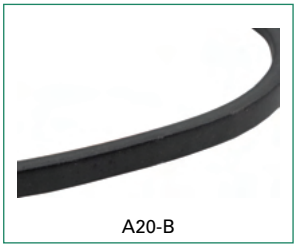
4L, LIGHT DUTY

- Outside width: 1/2"
- Thickness: 9/32"

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
4L170-B	17.0	6.75	9/32
4L210-B	21.0	8.75	9/32
4L240-B	24.0	10.30	9/32
4L280-B	28.0	12.15	9/32
4L310-B	31.0	13.60	9/32
4L340-B	34.0	4.25	9/32
4L370-B	37.0	16.30	9/32
4L430-B	43.0	18.70	9/32
4L480-B	48.0	20.80	9/32
4L540-B	54.0	22.85	9/32
4L600-B	60.0	26.00	9/32
4L670-B	67.0	9.10	9/32
4L730-B	73.0	1.00	9/32
4L810-B	81.0	11.80	9/32
4L870-B	87.0	11.60	9/32

FAN BELT


A20-B

A, HEAVY DUTY

- Outside width: 1/2”
- Thickness: 13/32”
- Inside length is belt size

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
A20-B	22.2	9.30	13/32
A26-B	28.2	12.20	13/32
A34-B	36.2	15.70	13/32
A40-B	42.2	4.70	13/32
A47-B	49.2	21.15	13/32
A54-B	56.2	24.25	13/32
A60-B	62.2	26.75	13/32
A69-B	71.2	10.35	13/32
A77-B	79.2	10.95	13/32
A86-B	88.2	12.90	13/32
A94-B	96.2	5.35	13/32
A100-B	102.2	1.00	13/32
A120-B	122.2	18.30	13/32
A144-B	146.2	22.45	13/32


AX20-B

AX COG BELT

- Precision molded raw edge construction; extra deep molded notches
- Oil and heat resistant; static conducting
- Outside width: 1/2”
- Thickness: 11/32”
- Inside length is belt size

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
AX20-B	22.2	9.50	11/32
AX24-B	26.2	3.50	11/32
AX29-B	31.2	3.65	11/32
AX34-B	36.2	3.95	11/32
AX39-B	41.2	18.25	11/32
AX44-B	46.2	20.50	11/32
AX51-B	53.2	23.45	11/32
AX58-B	60.2	25.80	11/32
AX64-B	66.2	9.20	11/32
AX70-B	72.2	5.80	11/32
AX76-B	78.2	5.65	11/32
AX83-B	85.2	12.30	11/32
AX93-B	95.2	14.35	11/32
AX100-B	102.2	5.60	11/32
AX120-B	122.2	18.25	11/32


5L230-B

5L, LIGHT DUTY

- Outside width: 5/8”
- Thickness: 11/32”

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
5L230-B	23.0	9.85	11/32
5L270-B	27.0	11.65	11/32
5L310-B	31.0	13.60	11/32
5L960-B	96.0	14.90	11/32
5L360-B	36.0	15.85	11/32
5L410-B	41.0	17.90	11/32
5L460-B	46.0	5.20	11/32
5L510-B	51.0	22.35	11/32
5L560-B	56.0	24.50	11/32
5L630-B	63.0	5.55	11/32
5L700-B	70.0	8.10	11/32
5L750-B	75.0	1.00	11/32
5L810-B	81.0	1.00	11/32

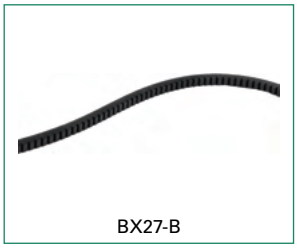

B100-B

B, HEAVY DUTY

- Outside width: 21/32”
- Thickness: 7/16”
- Inside length is belt size

****More sizes available on uri.com or at your local branch.****

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
B100-B	103.0	15.75	7/16
B111-B	114.0	17.00	7/16
B123-B	126.0	18.40	7/16
B136-B	139.0	21.20	7/16
B158-B	161.0	24.05	7/16
B210-B	213.0	11.05	7/16
B30-B	33.0	14.10	7/16
B37-B	40.0	17.35	7/16
B43-B	46.0	19.95	7/16
B49-B	52.0	22.45	7/16
B56-B	59.0	25.55	7/16
B62-B	65.0	9.35	7/16
B68-B	71.0	10.25	7/16
B75-B	78.0	11.15	7/16
B82-B	85.0	12.75	7/16
B89-B	92.0	13.85	7/16
B96-B	99.0	14.90	7/16


BX27-B

BX COG BELT

- Precision molded raw edge construction; extra deep molded notches
- Oil and heat resistant; static conducting
- Outside width: 21/32"
- Thickness: 7/16"
- Inside length is belt size

****More sizes available on uri.com or at your local branch.****

Browning

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
BX27-B	30.0	13.05	7/16
BX32-B	35.0	15.10	7/16
BX37-B	40.0	4.35	7/16
BX42-B	45.0	20.00	7/16
BX48-B	51.0	21.80	7/16
BX55-B	58.0	25.35	7/16
BX61-B	64.0	9.65	7/16
BX68-B	71.0	10.55	7/16
BX77-B	80.0	4.80	7/16
BX85-B	88.0	13.25	7/16
BX93-B	96.0	14.75	7/16
BX100-B	103.0	15.90	7/16
BX113-B	116.0	17.75	7/16
BX126-B	129.0	19.15	7/16
BX148-B	151.0	22.55	7/16
BX180-B	183.0	27.75	7/16


3VX1000-B

3VX, PREMIUM

- VX belts designed for newer high efficiency drive systems
- Outside width: 3/8"
- Thickness: 5/16"

Browning

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
3VX1000-B	100.0	14.40	5/16
3VX1060-B	106.0	15.70	5/16
3VX1120-B	112.0	17.25	5/16
3VX1180-B	118.0	17.80	5/16
3VX250-B	25.0	10.70	5/16
3VX265-B	26.5	3.55	5/16
3VX280-B	28.0	9.30	5/16
3VX300-B	30.0	13.15	5/16
3VX315-B	31.5	13.95	5/16
3VX335-B	33.5	14.75	5/16
3VX355-B	35.5	15.70	5/16
3VX375-B	37.5	4.55	5/16
3VX400-B	40.0	4.75	5/16
3VX425-B	42.5	18.65	5/16
3VX450-B	45.0	19.85	5/16
3VX475-B	47.5	20.75	5/16
3VX500-B	50.0	21.80	5/16

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Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
3VX530-B	53.0	23.10	5/16
3VX560-B	56.0	24.45	5/16
3VX600-B	60.0	26.30	5/16
3VX630-B	63.0	9.05	5/16
3VX670-B	67.0	9.05	5/16
3VX710-B	71.0	9.90	5/16
3VX750-B	75.0	10.55	5/16
3VX800-B	80.0	12.00	5/16
3VX850-B	85.0	5.95	5/16
3VX900-B	90.0	13.00	5/16
3VX950-B	95.0	21.70	5/16


5VX1250-B

5VX, PREMIUM

- VX belts designed for newer high efficiency drive systems
- Outside width: 5/8"
- Thickness: 17/32"

Browning

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
5VX1250-B	125.0	14.30	17/32
5VX1320-B	132.0	19.75	17/32
5VX1400-B	140.0	21.55	17/32
5VX1500-B	150.0	23.10	17/32
5VX1600-B	160.0	24.45	17/32
5VX1700-B	170.0	25.35	17/32
5VX1800-B	180.0	26.95	17/32
5VX1900-B	190.0	13.35	17/32
5VX2000-B	200.0	13.95	17/32
5VX450-B	45.0	19.65	17/32
5VX470-B	47.0	4.60	17/32
5VX1000-B	100.0	15.15	17/32
5VX1030-B	103.0	5.35	17/32
5VX1060-B	106.0	16.20	17/32
5VX1080-B	108.0	6.05	17/32
5VX1120-B	112.0	16.85	17/32
5VX1150-B	115.0	17.90	17/32
5VX1180-B	118.0	18.35	17/32
5VX1230-B	123.0	14.20	17/32
5VX670-B	67.0	9.95	17/32
5VX680-B	68.0	5.60	17/32
5VX690-B	69.0	9.85	17/32
5VX710-B	71.0	15.40	17/32
5VX730-B	73.0	10.85	17/32
5VX740-B	74.0	15.80	17/32
5VX750-B	75.0	11.15	17/32
5VX780-B	78.0	11.10	17/32
5VX800-B	80.0	12.35	17/32
5VX810-B	81.0	5.30	17/32
5VX830-B	83.0	12.30	17/32
5VX840-B	84.0	18.20	17/32
5VX850-B	85.0	12.70	17/32
5VX860-B	86.0	12.70	17/32

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FAN BELT

Part No.	Outside Length (In.)	Width (In.)	Thickness (In)
5VX880-B	88.0	13.00	17/32
5VX900-B	90.0	13.55	17/32
5VX930-B	93.0	14.35	17/32
5VX950-B	95.0	15.00	17/32
5VX960-B	96.0	14.50	17/32
5VX490-B	49.0	21.50	17/32
5VX500-B	50.0	21.85	17/32
5VX510-B	51.0	5.95	17/32
5VX530-B	53.0	23.30	17/32
5VX540-B	54.0	23.55	17/32
5VX550-B	55.0	24.00	17/32
5VX560-B	56.0	24.50	17/32
5VX570-B	57.0	25.10	17/32
5VX580-B	58.0	25.45	17/32
5VX590-B	59.0	28.45	17/32
5VX600-B	60.0	26.55	17/32
5VX610-B	61.0	13.05	17/32
5VX630-B	63.0	5.70	17/32
5VX650-B	65.0	5.05	17/32
5VX660-B	66.0	14.10	17/32



2708030

GRIPTWIST

- Perfect for emergency replacement: Minimizes production downtime because it assembles and installs immediately for any length required.
- Vibration free: Premium Griptwist Belts have no equal in suppressing troublesome vibration. Because of their extremely close tolerances, they create and transmit up to 90% less vibration than classical endless V-belts.

Browning

Part No.	Description	Width (In.)
2708030	Adjustable Belt, "A" Groove, 5'	3.85
2708048	Adjustable Belt, "B" Groove, 5'	5.40
2708055	Adjustable Belt, "3L" Groove, 5'	12.80



1302546

TENSION TOOL

Indicates tension on all V-belt drives (3L, 4L, 5L, A, B, C, D, 3V, 5V and 8V). Compact, spring-loaded design. Easy to operate; instructions included. Adjustable for 10" to 170" belt span and up to 35 pounds of tension.

Browning

Part No.	Description	Width (In.)
1302546	V-Belt Tension Tool	1.00



BJ10

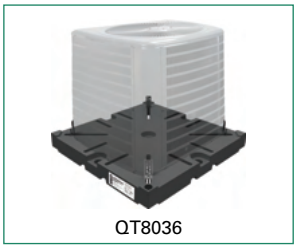
BELT JACK

Designed to set belt tension and to help align pulleys on all belt driven units including blower motors, compressors, transmissions, and automotive components.

Supco

Part No.	Description
BJ10	Belt Jack

CONDENSER PAD



QT8036

QWIKHURRICANE™ PAD

QwikPad® for Condensers is a lightweight, easy-to-install condenser pad that meets wind loading requirements up to 180 mph. Includes corrosion-resistant stainless steel tie-down assemblies to secure the outdoor unit to the pad.

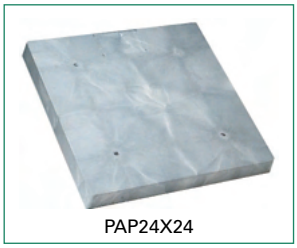
Contains a super absorbent material that acts as a unique gelling agent... Once water is added, it forms a solidus gel that provides freeze protection.

Material: Linear Low Density Polyethylene (LLDPE)

MAINSTREAM ENGINEERING

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
QT8036	36.00	36.00	4.50	29.00
QT8040	40.00	40.00	4.50	35.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


PAP24X24

RECTANGULAR, PLASTIC

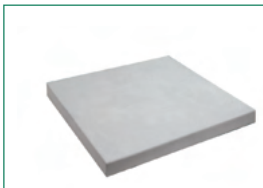
Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
PAP24X24	24.00	24.00	2.00	8.80
PAP24X36	36.00	24.00	2.00	13.80
PAP30X30	30.00	30.00	2.00	14.50
PAP30X36	36.00	30.00	2.00	17.50
PAP30X40	40.00	30.00	2.00	19.30
PAP36X36	36.00	36.00	2.00	18.90
PAP36X40	40.00	36.00	2.00	22.50
PAP36X48	48.00	36.00	2.00	24.70
PAP18X38X3	38.00	18.00	3.00	16.00
PAP24X24X3	24.00	24.00	3.00	11.10
PAP24X36X3	36.00	24.00	3.00	17.30
PAP30X30X3	30.00	30.00	3.00	18.10
PAP32X32X3	32.00	32.00	3.00	21.00
PAP36X36X3	36.00	36.00	3.00	23.70
PAP36X40X3	40.00	36.00	3.00	31.00
PAP36X48X3	48.00	36.00	3.00	30.90
PAP38X42X3	42.00	38.00	3.00	33.00
PAP52X52X3	52.00	52.00	3.00	48.00


UL24X24X3

RECTANGULAR, CONCRETE SHELL

A concrete shelled pad with the weight of plastic, strengthened by a fiber-cement coating, flexes instead of cracking or breaking. The textured surface prevents unit slide and allows water drainage, while the engineered core prevents warping and provides a solid bottom to resist settling. Unaffected by soil conditions, UV, temperature extremes, and other weather conditions.

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
UL24X24X3	24.00	24.00	3.00	12.00
UL24X36X3	36.00	24.00	3.00	18.00
UL30X30X3	30.00	30.00	3.00	18.25
UL32X32X3	32.00	32.00	3.00	20.65
UL36X36X3	36.00	36.00	3.00	35.47
UL36X48X3	36.00	48.00	3.00	33.75
UL38X42X3	38.00	42.00	3.00	35.00
UL40X42X3	40.00	42.00	3.00	36.00
UL52X52X3	52.00	52.00	3.00	79.80


HT1840-4

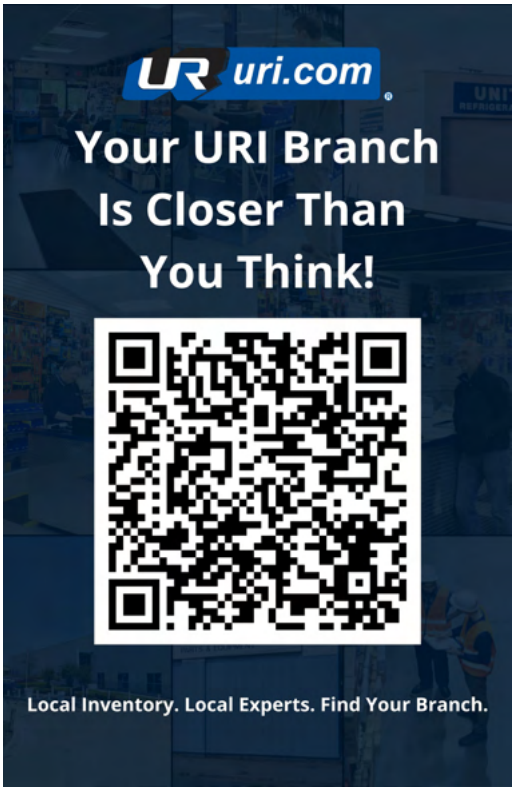
HURRICANE PAD™ -T CLASS

Designed for higher wind loads - up to 175 MPH. Ideal for South Florida and other heavily threatened areas, the T Class Hurricane Pads are heavier and provide additional concrete for superior anchor pullout strength.

- Steel reinforced
- 3,000 psi minimum concrete, mandatory to meet strict anchor pullout requirements
- Much lighter than solid concrete
- Easier to install
- Will not float (unlike air filled pads)
- Uses standard Tapcon™ brand screws and no inserts are necessary
- Superior screw pullout strength

DIVERSITECH

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
HT1840-4	18.00	40.00	4.00	65.00
HT2436-4	24.00	36.00	4.00	120.00
HT3030-4	30.00	30.00	4.00	127.00
HT3232-4	32.00	32.00	4.00	165.00
HT3636-4	36.00	36.00	4.00	180.00
HT3648-4	36.00	48.00	4.00	250.00
HT4040-4	40.00	40.00	4.00	260.00
HT4242-4	42.00	42.00	4.00	265.00
HT4558-4	45.00	58.00	4.00	350.00



UNIT ELEVATOR


4005S

UNIT ELEVATOR

- Elevates heat pumps and air handling units
- Made of corrosion-resistant plastic
- Allows better condensate drainage
- Helps prevent corrosion of metal base
- Absorbs vibration and noise
- Polymeric mastic included with each unit
- Solid 6" x 6" mounting base
- Top diameter: 4 1/8"

DIVERSITECH

Part No.	Description	Box Qty	Ship Wgt (Lbs.)
4005S*	3" Pump-up	32	0.70
4008S*	6" Pump-up	16	0.95


FMB1

FURNACE MOUNTING BLOCK

- Easy peel and stick installation
- Each block can support 300 lbs.
- Holds furnace off floor to prevent moisture and rust of furnace panels
- Absorbs vibration and noise

DIVERSITECH

Part No.	Description	Ship Wgt (Lbs.)
FMB1	Mounting Block	0.01


EL10

EASY LEVELER FURNACE LEGS

Four sturdy bolt-adjusted leg extensions supplied with mounting materials. Simply turn the lag bolted insert clockwise or counter clockwise to raise or lower each corner of the furnace.

- Mounting hardware included
- Adjustments made with standard wrench

ESP ENERGY SAVING PRODUCTS

Part No.	Description	Ship Wgt (Lbs.)
EL10	Easy Leveler Furnace Legs (4)	2.50


DP1838S

SECONDARY, PLASTIC

- Rolled edges for durability
- Ribbed bottoms for rigidity
- Reinforced corners for strength
- 3/4" PVC fittings attached to each pan
- No seams, no rust, no leakage
- Depth 2"; Overall dimension + 2"
- "S" suffix = Drain line outlets in short side
- "L" suffix = Drain line outlets in long side

DIVERSITECH

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
DP1838S	20.00	40.00	2.00	2.84
DP2424L	26.00	26.00	2.00	2.20
DP2739L	27.00	39.00	2.00	4.12
DP2748L	29.00	50.00	2.00	4.80
DP2763L	29.00	65.00	2.00	6.20
DP3030L	32.00	32.00	2.00	3.18
DP3050L	32.00	52.00	2.00	5.20
DP3060L	32.00	62.00	2.00	5.74
DP3263L	34.00	65.00	2.00	6.50
DP3660L	38.00	62.00	2.00	6.80


SAFT1

SAFE-T-SWITCH®

The Safe-T-Switch® Models SS1 and SS2 detect down stream clogs in condensate drains and interrupt the thermostat circuit to shut off the unit before flooding occurs. This product can also be installed to activate an alarm circuit. The Model SS1 installs inline at any downward slope from vertical to horizontal. It can also be installed on auxiliary pan outlets utilizing the plug included with the kit. Model SS2 installs primarily in drain pan outlets but can be used inline with the addition of a 3/4" tee. Float resets automatically and won't stick in the OFF position after the drain is cleared, saving callbacks. Model SS3 mounts to the auxiliary drain pan; minimum pan depth 1 3/8". Package includes snap on mounting bracket, mounting nuts, 1/4" hex head self-drilling sheet metal screw, pre-wired 6', 18 gauge lead wires, instructions and warning sticker.

- Safe-T-Switch® is UL Listed to comply with most applicable building codes
- Package includes 4', 18 gauge lead wires
- SS1 also includes 3/4" Schedule 40 PVC slip plug and bushing

RECTORSEAL

Part No.	Width (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
SAFT1	5.40	8.10	0.90	0.53
SAFT2	5.30	8.00	1.60	0.15
SS3	5.30	4.70	1.10	0.20

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR CLEANER

REPLACEMENT MEDIA



RP110

Part No.	Description
RP110	Research Products MERV 11 Media Filter for RP1110
RP1110	Research Products 16 X 20 Media Air Cleaner
RP201	Replacement Media for 2200
RP210	Replacement Media (MERV11) for RP1210, 2210, 3210, 4200
RP213	Replacement Media (MERV13) for 4200, 2210
RP213CBN	Research Products MERV 13 Carbon Backed Media Filter
RP216	Research Products MERV 16 Media Filter
RP310	Replacement Media (MERV11) for RP1310, 2310
RP401	Replacement Media for 2400
RP410	Replacement Media (MERV11) for RP1410, 2410
RP413	Replacement Media (MERV13) for 4400, 2410
RP413CBN	Research Products MERV 13 Carbon Backed Media Filter
RP501	Replacement Media for 5000

REPLACEMENT MEDIA



RP0275

Aprilaire
Trusted Solutions for a Healthy Home™

Part No.	Box Qty	Description
RP0275	10	Replacement Media for 2275

REPLACEMENT FILTER



FR8000A1620

Honeywell Home

Part No.	Description
FR8000A1620	Replacement Filter for FH8000A1620, 16" x 20"
FR8000A2020	Replacement Filter for FH8000A2020, 20" x 20"
FR8000A2520	Replacement Filter for FH8000A2520, 25" x 20"
FR8000F1625	Replacement Filter for FR8000F1625, 16" x 25"
FR8000F2025	Replacement Filter for FR8000F2025, 20" x 25"

ELECTRONIC, STANDARD PANEL



1P1212C24

Dynamic Air Cleaners™

Part No.	Width (In.)	Length (In.)	Thickness (In.)
1P1212C24	12.00	12.00	1.00
1P1224C24	12.00	24.00	1.00
1P1414C24	14.00	14.00	1.00
1P1425C24	14.00	25.00	1.00
1P1430C24	14.00	30.00	1.00
1P1520C24	15.00	20.00	1.00
1P1616C24	16.00	16.00	1.00
1P1620C24	16.00	20.00	1.00
1P1621C24	16.00	21.00	1.00
1P1624C24	16.00	24.00	1.00
1P1625C24	16.00	25.00	1.00
1P1630C24	16.00	30.00	1.00
1P1818C24	18.00	18.00	1.00
1P1820C24	18.00	20.00	1.00
1P1824C24	18.00	24.00	1.00
1P2020C24	20.00	20.00	1.00
1P2024C24	20.00	24.00	1.00
1P2025C24	20.00	25.00	1.00
1P2030C24	20.00	30.00	1.00
1P2424C24	24.00	24.00	1.00
1P2430C24	24.00	30.00	1.00
1P2525C24	25.00	25.00	1.00

AIR CLEANER



F100F1620

MEDIA

- High efficiency media filter captures particles as small as 0.3 microns
- Applicable to all gas, oil and electric forced air furnaces and to compressor cooling up to 5 tons
- Mounts in the return air duct
- Rugged zinc-coated, roll-formed cabinet resists corrosion and can support weight of residential furnace and evaporator coil
- Requires no electrical connections.
- Mounts in any position
- Requires no maintenance except periodic media filter replacement.
- Quick and easy media filter replacement.
- Later upgrade to higher performing media or electronic air cleaner is easy
- Includes; cabinet, access door and MERV 11 filter

Honeywell Home

Part No.	CFM	Media Size (In.)	Wgt (Lbs.)
F100F1620[1]	1200	16 x 20	11.82
F100F1625[1]	1400	16 x 25	13.71
F100F2020[1]	1400	20 x 20	13.42
F100F2025[1]	2000	20 x 25	14.84

[1] MERV 11



FC100A1003

REPLACEMENT MEDIA

Honeywell Home

Part No.	Description
FC100A1003	Replacement media, F100, 16x20", MERV10
FC2200A1009	Replacement media for 2200
FC200E1003	Replacement charged media, F200, 16x20", MERV13
FC2400A1005	Replacement media for 2400
FC100A1011	Replacement media, F100, 20x20", MERV10
FC200E1011	Replacement charged media, F200, 20x20", MERV13
FC100A1029	Replacement media, F100, 16x25", MERV10
FC200E1029	Replacement charged media, F200, 16x25", MERV13
FC100A1037	Replacement media, F100, 20x25", MERV10
FC200E1037	Replacement charged media, F200, 20x25", MERV13
FC100A1052	Replacement media, F100, 12.5x20", MERV10



F300B2012

ELECTRONIC

- Available in five sizes to fit most ducts; adapts to airflow from either side
- Solid state power supply is self regulating and maintains peak efficiency during a wide range of cell dirt loading conditions
- Fractional efficiency: 70% (0.3 micron 500 fpm); 90% (1 micron 500 fpm)

Honeywell Home

Part No.	Voltage	CFM	Nominal Opening (In.)	Wgt (Lbs.)
F300B2012	240	875	20 x 12 1/2	25.00
F300E1001	120	1200	16 x 20	30.00
F300E1019	120	1400	16 x 25	33.50
F300E1027	120	1400	20 x 20	33.00
F300E1035	120	2000	20 x 25	38.00

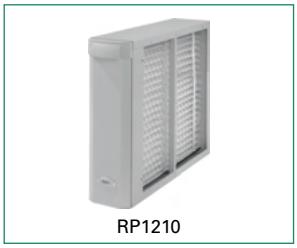


209989

F50/F300 FILTER

Honeywell Home

Part No.	Description	Wgt (Lbs.)
209989	Pre-filter for 16" x 20" F50, F300	0.22
203371	Pre-filter for 16" x 25" F50, F300	0.79
203373	Pre-filter for 20" x 20" F50, F300	0.50
203372	Washable Pre-filter for 20" x 25" and 20" x 12 1/2" F50, F300	0.94
50000293-001	16" x 10" Post Filter for 16" x 20" F300, F50	0.20
50000293-002	16" x 12 1/2" Post Filter for 16" x 25" F300, F50	0.28
50000293-003	20" x 10" Post Filter for 20" x 20" F300, F50	0.30
50000293-004	20" x 12 1/2" Post Filter for 20" x 25" and 20" x 12 1/2" F300, F50	0.30


RP1210

MEDIA, DUCT MOUNT

The 1000 Series (MERV11) provides highly efficient, whole-home air cleaning and effective removal of pollen and mold:

- Removes 94% of pollen and mold
- Removes 72% of airborne bacteria and fungi
- Removes 56% of dust particles
- Permanently traps indoor allergens that can lead to respiratory problems
- RP1610 is designed for easy installation in upflow HVAC systems with right or left returns

The 2000 Series (MERV13) is the best choice for homeowners who suffer from allergies.

- Traps 98% of visible airborne dust and other large particles
- Permanently captures at least 97% of airborne pollen-sized particles
- Provides more than 10 times the filtering media used in standard 1" furnace filters

Aprilaire® Trusted Solutions for a Healthy Home™

	Dimensions (In.)				Resistance (In.) W.C. @ CFM		
Part No.	H	W	D	Filter Area (Sq Ft)	Min.	Max.	Wgt (Lbs.)
RP1210	22.06	27.38	6.75	31.4	.04" 600	.22" 2,000	18.30
RP1310	20.38	22.00	6.75	19.4	.07" 600	.25" 1,400	15.00
RP1410	17.75	30.00	6.75	28.3	.05" 600	.27" 2,000	17.35
RP1510	31.00	30.00	6.75	43.5	.04" 1,000	.19" 3,000	24.00
RP1610	17.80	30.10	15.70	28.3	.05" 600	.27" 2,000	31.00
2210	22.06	27.38	6.75	31.4	.06" 600	.35" 2,000	18.00
2310	20.38	22.06	6.75	19.4	.09" 600	.23" 1,200	15.00
2410	17.75	30.00	6.75	28.3	.06" 600	.37" 2,000	17.00


5000

WHOLE HOUSE

The Aprilaire Model 5000 Air Purifier is the only air purifier that captures more than 98% of dirty indoor air.

- It traps and kills: 99% of all airborne pollen, mold and spore-sized particles; 98% of bacteria-sized particles; 80% of virus-sized particles down to 0.01 micron in size.
- Performs 24 hours a day or on demand
- Prevents dust build up
- Includes air cleaner controller
- Improves energy savings

Aprilaire® Trusted Solutions for a Healthy Home™

	Dimensions (In.)				
Part No.	H	W	D	Max. Resistance (In.) WC at CFM	Wgt (Lbs.)
5000	17 3/4	31 1/8	11 1/2	.29" 2,000	35.00

AIR SCRUBBER


FN1AAF005000

OPTICLEAN NEGATIVE AIR MACHINE AND AIR SCRUBBER

The OptiClean™ negative air machine is a portable solution primarily designed to help convert normal hospital rooms into Airborne Infectious Isolation (AII) rooms. Designed to ASHRAE Standard 170 for Ventilation of Health Care Facilities, the OptiClean™ uses highly efficient filters and a heavy duty, yet quiet, motor to remove contaminated air from the room. The resulting negative air pressure, or "vacuum effect," helps limit the spread of air-based contaminants into surrounding areas. If negative pressure is not required, such as in an open-air, temporary hospital, a business location or home, the machine can be used as an air "scrubber"; pulling air in, removing many contaminants, and discharging cleaner air back into the room. The unit can be operated either vertically as shown, or horizontally.

- 99.97% efficient long-life HEPA filter removes particles as small as 0.3 microns
- Standard MERV 7 or higher pre-filter
- Meets or exceeds ASHRAE Standard 170: Ventilation of Health Care Facilities
- Vertical design for smaller footprint compared to many competitors, and can be mounted and operated horizontally when necessary
- Portable and adaptable to nearly any location
- Heavy duty locking casters for easy and smooth transport
- HEPA filter rack and sealing design meet air leakage requirement
- Red lighted indicator to alert user when filters are overloaded (generally means pre-filter requires replacement)
- Green ON/OFF switch illuminates to verify when running
- 3-second motor start delay
- 3-speed selector switch on 006 and 015 models for various air flow ranges
- 10-foot long power cord with strain relief
- Galvanized steel, pre-painted cabinet is fully insulated
- UL® Listed
- One year limited warranty

Arcoaire® Air Conditioning & Heating

			Dimensions (In.)				
Part No.	RPM	CFM	H	W	D	Volt-age	Wgt (Lbs.)
FN1AAF005000	1500	500	49.63	17.63	22 1/16	115/1	125.00
FN1AAF015000	1500	500/1000/1500	57.24	22.75	22 1/16	115/1	165.00

FRESH AIR VENTILATION SYSTEM


VNT5150H1000

TRUEBREEZE BALANCED VENTILATION SYSTEM

- Removable duct collars
- Simplified balancing
- Adjustable hanging straps
- Centralized wiring and speed control
- Compact size
- ENERGY STAR® rated
- Meets ASHRAE 62.2 standards
- 5-Year warranty

Honeywell Home

Part No.	Recovery	CFM	Includes	Wgt (Lbs.)
VNT5150H1000	Heat Only	150	Ventilator, Heat recovery core, 2 filters, 4 round duct collars, Installation kit,, Wall mount bracket	50.00
VNT5150E1000	Energy	150	Ventilator, Energy recovery core, 2 filters, 4 round duct collars, Installation kit, Wall mount bracket	50.00
VNT5200H1000	Heat Only	200	Ventilator, Heat Recovery Core, 2 Filters, 4 Round Duct Collars, Installation Kit, Wall Mount Bracket	59.50
VNT5200E1000	Energy	200	Ventilator, Energy recovery core, 2 filters, 4 round duct collars, Installation kit, Wall mount bracket	59.50


8100

RECOVERY VENTILATOR

- Unit capacity: Handles up to a 3,600 sq. ft. home (calculated to include natural infiltration and mechanical ventilation per ASHRAE Standard 62-89.)
- Free air flow: 150 CFM each air stream
- Design air flow: 120 CFM 3" w.g. external duct resistance, i.e. 240 equivalent ft. for each of the fresh and stale air streams
- Electrical usage: 120 Vac, 60 Hz, 1.4 Amps

Aprilaire® Trusted Solutions for a Healthy Home™

		Dimensions (In.)			
Part No.	Voltage	H	W	D	Wgt (Lbs.)
8100	115/1	20.56	37 3/8	12.75	76.00


W8150A1001

VENTILATOR CONTROL

The control operates a fresh air intake damper and, when necessary, activates the main HVAC blower to efficiently meet ASHRAE ventilation rates.

- Designed to help meet local ventilation codes and standards, including ASHRAE 62.2-2003 standard, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings.
- Microcontroller optimizes the air delivery schedule to make efficient use of normal HVAC run times.
- Easy-to-use input dials allow customized ventilation for each installation.
- Test mode that includes immediate feedback to installer to confirm that air delivery requirements of selected ventilation standard are being met.
- Economical supply-only ventilation; works with forced air system.
- Can be used with other equipment, such as an HRV/ ERV, for balanced ventilation.
- Airflow: 50 to 160 CFM

Honeywell Home

Part No.	CFM	Includes	Use with	Wgt (Lbs.)
W8150A1001	50 to 160	W8150 Fresh Air Ventilation Control, Mounting hardware for control, Homeowner information label	EARD6; ER200; BER200; CER150; BHR200; BHR150B	0.65


Y8150A1017

VENTILATION SYSTEM WITH TRUEZONE DAMPER

- Designed to help meet local ventilation codes and standards, including ASHRAE 62.2-2010 standard, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings.
- Smart Control optimizes air delivery by syncing ventilation calls with heating/cooling
- Easy-to-use input dials allow customized ventilation for each installation
- Test mode that includes immediate feedback to installer to confirm that air delivery requirements of selected ventilation standard are being met.
- Economical supply-only ventilation; works with forced air system.
- Can be used with other equipment, such as an HRV/ ERV, for balanced ventilation.

Honeywell Home

			Dimensions (In.)		
Part No.	CFM	Includes	H	W	Wgt (Lbs.)
Y8150A1017	50 to 160	W8150A1001 Ventilation controller , AT120B1028 24V Transformer, EARD6TZ TrueZONE damper/actuator,	12.25	7.88	4.60

ULTRAVIOLET BIOCIDE


UMX9URL

REPLACEMENT LAMP

Ultravation Professional Indoor Air Quality Products

Part No.	Description	Use with
UMX9URL	Replacement Lamp 9" U shape EZ plug in	UMX1000,2000
UMX16URL	Replacement Lamp 16", U shape EZ plug in	UMX1036,2036
LPPP0001	Replacement Lamp 9" U shape	[UME,UVS,UVE]1000,2000
LPPP0002	Replacement Lamp 16" U shape	[UME,UVS,UVE]1036,2036
ASIH1001	Replacement Lamp 12",T3 remote	[UMX,UME,UVS,UVE]1200T,1202T; UME1224(2)T
ASIH1003	Replacement Lamp 17",T3 remote	[UMX,UME,UVS,UVE]1900T,1902T; UME1924(2)T


BLUQR

BLU QR® UV STICK LIGHT

BLU QR® features an exclusive quick-release lamp, which requires no tools for the lamp replacement. It comes standard with four easy-to-install mounting options right in the box, including the magnetic mount, through panel mount, bracket mount and direct mount. The patented BLU QR® economically provides UV light disinfection and protection to the AC coil surfaces from bacteria, viruses, mold and mildew growth and odor. This results in a cleaner and more efficient energy-saving system. The 24 VAC ballast is designed to be mounted either in the air handler control panel itself or external to the HVAC air handler unit. The BLU QR® UV treatment system utilizes a standard germicidal wavelength lamp for safe dependable disinfection and protection of AC Coil surfaces from bacteria, viruses, mold growth and foul odors, resulting in a cleaner, more energy efficient system.

- Kills mold, mildew and bacteria on AC coils
- Quick release lamp replacement
- Small U Bracket Footprint for tight-fitting installations
- Reduces AC maintenance
- Helps AC run more energy efficient and can increase life of your central AC unit
- Low operating cost
- Helps reduce musty, moldy smells from AC
- Control Odors

RGF ENVIRONMENTAL GROUP, INC.

Part No.	Description
BLUQR	Quick release AC coil ultraviolet treatment system, 1 year warranty

ULTRAVIOLET BIOCIDE


UV100E1043

ENVIRACARE

- Extended lamp life
- SmartLamp™ Control Algorithm determines optimal UV lamp usage, extends lamp life 5 times, lowers operating costs
- SmartLamp™ LED shows lamp life and replacement
- Reduced power consumption
- Communicates with other home appliances through Enviracom™ three-wire communications bus
- Automatic brownout and high temperature protection for UV lamps
- Return air models supplied with integrated airflow sensor to monitor air flowing through ductwork timer after lamp replacement with extended five-second hold
- UV-C light kills airborne and surface bacteria
- UV lamp does not produce ozone
- Easy lamp maintenance with quick and easy lamp replacement
- Sealed unit design prevents accidental installer and homeowner contact with high voltage and UV rays
- Safe design prevents lamps from lighting unless the base is correctly mounted on the HVAC duct
- Light pipe to safely view the lamp operation
- Five-year limited warranty

Honeywell Home

Part No.	Use with
UV100E1043	Return Air, 1 Lamp


UC100E1006

REPLACEMENT BULBS

Honeywell recently received information that some UV100RM1 products may be experiencing premature bulb failures in the field, specifically a bulb failure in less than 12 months. If the bulb fails, the UV device is not effective for its intended use. Please contact your local United branch to return faulty devices. Honeywell is working on resolving this issue.

Honeywell Home

Part No.	Use with
UC100E1006	UV100E1043, UV100E1001


UV12

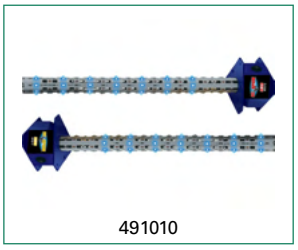
UV-AIRE®

- New design incorporates a hinged cover for easy accessibility
- Includes patent pending angle bracket and duct board mounting kit
- UV18HP for heat pump applications; 240V
- UV18X includes 2 lamps for greater coverage area

FIELD CONTROLS

Part No.	Nb. of Lamps	Min. Duct Width (In.)	Voltage	Watts	Area Treated (Sq Ft.)
UV12	1	9	115/1	30	1500
UV18	1	14	115/1	30	2000

AC/HEAT DUCT AIR PURIFICATION SYSTEM


491010

SCORPION UVC-LED SYSTEM

- 15 inch UVC-LED Disinfection System
- Up to 5X the life compared to standard bulbs
- Rugged design with shatterproof LED
- Kills mold, mildew, viruses, and bacteria on and around your HVAC coil
- Stops foul odors like dirty sock smell
- Integrated toggle switch for dual run mode options
- 360 degree design for complete treatment
- Air flow sensor to power only when fan is running
- Easy install with integrated magnet or supplied hardware
- LX15 - Easy 24VAC input voltage on installation / HX15 - Easy 110-277VAC Input voltage on installation
- Optimum 265nm wavelength

Nu-Calgon

	Dimensions (In.)		
Part No.	H	W	Description
491010	3.50	3.50	Nucalgon Scorpion LX15, UVC LED Low Voltage
491011	3.50	3.50	Nucalgon Scorpion LX15, UVC LED



X07003

UV AIR DISINFECTION SYSTEM

An easy retro-fit system for all existing air-conditioning units, to treat and protect the air, by constant UV disinfection, every time it passes through the unit.

Standard kit includes:

- LED Driver: designed to power & connect only to BlueScience auxiliary items, warranty is void if anything else is powered from the LED Driver. Can be fitted in multiple locations: below drip tray, inside ducting, above ceiling.
- 39 inch Extension Cable
- 27.5 inch UV-c 18 LED Strip: can be cut to any desired length.
- Storefront Display Sticker
- AC Unit Safety Seal
- Installation Guide

The Pro-Kit is a quick and easy way to simply enhance the UV-c dosage from the LED Driver.

First purchase the Standard Kit and install the LED Driver & 27.5 inch LED Strip. The Pro-Kit can then be added by adding the splitter (supplied with the Pro-Kit). Then connect the 27.5 inch LED Strip (supplied with the Standard-Kit) and 29 inch LED Strip (supplied with the Pro-Kit) into the splitter.

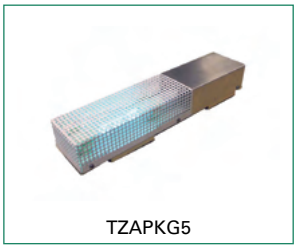
The increased number of LED's; 48 in total, 18 (Standard Kit) + 30 (Pro-Kit), it massively ramps up the UV-c dosage rate.

Pro Kit Includes:

- 39 inch 30 UV-c LED Strip: can be cut to any desired length.
- 39 inch Extension Cable
- LED Split Connector
- Storefront Display Sticker

BLUESCIENCE UV AIR DISINFECTION SYSTEM

Part No.	Voltage	Description
X07003	115/1, 208-230/1	Standard Kit
X07002PRO	115/1, 208-230/1	Pro Kit


TZAPKG5

MAGNETIC MOUNT PACKAGE

The Photohydroionization™ "HI" Package Unit is designed to eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs, smoke, mold bacteria and viruses. Designed specifically for package systems and utilizes adjustable magnetic feet to attach without fasteners to the blower unit itself making installation as trouble free as possible. This 24V model connects directly into the control box of the HVAC unit.

Application: small package products, vertical stack units, roof tops, gas package products, anywhere ductwork is inaccessible

- 24 VAC
- Aluminum housing
- 2.25" W x 1.75" D

RGF ENVIRONMENTAL GROUP, INC.

			Dimensions (In.)		
Part No.	CFM	Tonnage	W	L	D
TZAPKG5	250 - 1200	Up to 3.5 Ton	2.25	10.50	1.75
TZAPKG9	1200 - 3000	3.5 to 7.5 Ton	2.25	13.50	1.75
TZAPKG14	3000 - 8000	7.5 to 20 Ton	2.25	18.50	1.75



AC/HEAT DUCT AIR PURIFICATION SYSTEM


490010

IWAVE®-C COMMERCIAL AIR CLEANER

iWave-C is a self-cleaning, bi-polar ionization generator for actively treating a building's air quality that does not require replacement parts in a year or two like competing UV lights or other ionizer technologies. In addition, the iWave-C produces and maintains unparalleled ionization output and capabilities. As the air flows past the iWave-C, the device emits positive and negative ions, creating a plamsa region that actively purifies the supply air, killing mold, bacteria and viruses in the coil and living space. The ionization process also reduces allergens, smoke and static electricity, as well as controlling odors (cooking, pet, VOCs) and other particles (no more sunbeams) in the air without creating ozone or any harmful byproducts.

Although suitable for residential applications, the original iWave-C is specially designed for light commercial systems up to 12 tons (4800 CFM) with no maintenance or replacement parts needed. iWave-C can be easily duct-mounted indoors or outdoors, depending on the application. iWave-C always works at peak performance, producing over 200 million ions/cc per polarity (400 million total ions/cc), making it superior to other market approaches. Special features include a programmable self-cleaning cycle, waterproof housing, digital display (for on-site visual monitoring) and integral alarm contact (for remote monitoring). In the event the ion emitters become damaged or wear out (after years of service), they can be replaced on the iWave-C model.

Three Year Limited Warranty Nu-Calgon offers a three year limited warranty on iWave products. For a valid warranty claim within three years, proof of purchase and proof of installation by a licensed HVAC or Electrical contractor must be provided. See full warranty at iwaveair.com for complete details.

- Needle point ionization actively treats air in homes and buildings
- Duct-mount install for systems up to 12 tons (4800 CFM)
- Includes waterproof housing for installation indoors or outdoors
- Universal voltage input –24VAC-240VAC
- Kills mold, bacteria and viruses
- Reduces allergens, odors, smoke, static electricity and other airborne particles
- Keeps coil cleaner

Nu-Calgon

				Dimensions (In.)		
Part No.	Tonnage	CFM	Voltage	H	W	D
490010	12	4800	24 to 240	7.00	4.00	7.00


490020

IWAVE®-R AIR PURIFIER

- Patent-pending self-cleaning design ensures ongoing peak performance
- Needle point ionization actively treats air in the living space
- For duct systems up to 6 tons (2400 CFM)
- Easily installs in minutes in A/C system
- Universal mounting with magnets
- Flexible design with no replacement parts
- Kills mold, bacteria and viruses
- Reduces allergens, odors, smoke, static electricity and other airborne particles
- Keeps coil cleaner
- Programmable cleaning cycle

Nu-Calgon

				Dimensions (In.)		
Part No.	Tonnage	CFM	Voltage	H	W	D
490020	6	2400	24	6.00	4.80	2.00

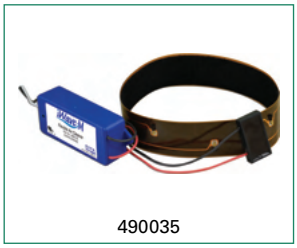

490040

IWAVE®-V VORTEX AIR CLEANER

- iWave-V is a low-maintenance, bi-polar, high-output ion generator designed specifically for treating air in residential duct A/C systems (but could be used in other air conditioning applications). As the air flows past the iWave-V, positive and negative ions actively purify the supply air, killing mold, bacteria and viruses in the coil and living space. The ionization process also reduces allergens, smoke and static electricity, as well as controlling odors (cooking, pet, VOCs) and other particles (no more sunbeams) in the air without creating ozone or any harmful byproducts. iWave-V treats the air in residential duct air conditioning systems up to 6 tons (2400 CFM) in size (or other appropriate A/C applications). Designed for universal mounting, the iWave-V typically is easy to install inside or outside of duct, or can be attached magnetically near the indoor fan. Install between air filter and cooling coil to treat the indoor coil; as an alternative, the iWave-V can be installed in supply air.

Nu-Calgon

			Dimensions (In.)		
Part No.	CFM	Voltage	H	W	Description
490040	2800	24	2.50	2.00	4" Diameter


490035

IWAVE®-M AIR PURIFIER

iWave-M is a flexible ion-generating bar that can treat IAQ in nearly any HVAC application. The air purifier provides the highest level of ionization energy in the most compact size available in the market, producing 35 million ions/cc. The highly versatile iWave-M is low maintenance with no replacement parts. As the air flows past the iWave-M, the device emits positive and negative ions, creating a plasma region that purifies the air, killing mold, bacteria and viruses in the coil and living space. The ionization process also reduces allergens, smoke and static electricity, as well as controlling odors (cooking, pet, VOCs) and other particles (no more sunbeams) in the air without creating ozone or any harmful byproducts.

iWave-M's revolutionary circuit bar with special integrated ion-generating needles fits any HVAC cooling coil up to 1200CFM. The circuit bar is chemical resistant and highly durable for long service life. Plus, it can be folded to length in the field to any size and uses hook and loop fastener material for the flexible bar and power pack for easy installation. It is perfect for ductless HVAC systems – specifically mini-splits, commercial VRF coils, PTAC systems – plus residential and commercial duct systems, packaged systems, transport cooling coils or even in ice machines. The iWave-M is the most versatile and novel product on the market to address air quality for any HVAC system, in particular to solve mold issues common in hard-to-clean ductless systems.

- Special ion needles routed in a flexible bar circuit
- Compact design applicable for any HVAC systems up to 1,200 CFM
- Can flex easily in the field to accommodate virtually any application - ideal for ductless systems
- No replacement parts
- Flexible voltage input – 110VAC to 240VAC

Nu-Calgon

			Dimensions (In.)		
Part No.	CFM	Voltage	H	W	D
490035	1200	110 - 240 Vac	0.05	2.00	1.00


CLEARSKYDM

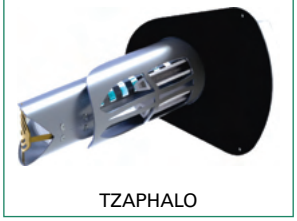
SELF-CLEANING ION GENERATOR

Developed to produce bi-polar ions in the conditioned space of homes and commercial buildings. This system has separated quad ion emitters for superior bi-polar ionization. The RGFCLEAR SKY reduces particulates, allergens, smoke, bacteria, viruses and mold spores.

- MAINTENANCE FREE - Continuous sonic self-cleaning ion emitters
- Very low energy consumption (only 1 watt)
- Low cost treatment option
- Reduces Bacteria, Molds, and Viruses
- Reduces Odors and Particulates
- Whole House Quad-Polar Ionization Unit
- Patent-pending dual cleaning technology combining ultrasonic energy with induced oscillation targeting
- Improves Indoor Air Quality (IAQ) of treated spaces

RGF ENVIRONMENTAL GROUP, INC.

Part No.	Application	Voltage	CFM	Description
CLEARSKYDM	In-Duct HVAC units	24	up to 2400	7" L x 4" W x 2.75" H
CLEARSKYMS	Mini-split HVAC units	100-277 Vac	2400	7" L x 3.5" W x 1.5" H


TZAPHALO

TZAP HALO

The TZAP HALO is designed to eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs, smoke, mold, bacteria and viruses. Easily mounted into air conditioning and heating systems air ducts where most sick building problems start. When the HVAC system is in operation, the TZAP HALO unit creates an Advanced Oxidation Plasma consisting of Ionized Hydro-peroxides, Super oxide ions and Hydroxide ions ("Friendly Oxidizers").

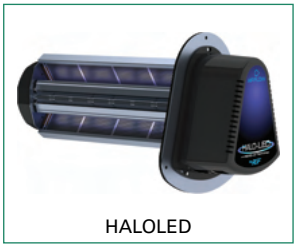
The outer housing has also been updated to be more efficient as the air flows around it in the HVAC plenum. Another new feature is a twist lock system that allows the electronics housing or head to be removed along with the Cell without having to remove the mounting flange from the plenum.

- Increased Ionized Hydro-Peroxide Output
- New Enhanced Catalyst With Zinc For Faster Kill Rates
- Easier, Faster, No Tool Cell Replacement
- Kills 99% of sneeze germs within 3 feet
- New Zinc ions kills 99% of viruses on surfaces

RGF ENVIRONMENTAL GROUP, INC.

Part No.	Application	Voltage	CFM
TZAPHALO	Residential/Light Commercial	24	1000 - 6500
REMEHALO	Residential/Light Commercial	24	1000 - 6500

AC/HEAT DUCT AIR PURIFICATION SYSTEM


HALOLED

HALO-LED WHOLE HOME IN-DUCT AIR PURIFIER

The HALO-LED™ is the industry's first LED in-duct, whole home air purification system that is both mercury free and zero ozone compliant. The REME-LED™ proactively treats every cubic inch of air conditioned space, reducing airborne and surface contaminants and pollutants through bi-polar ionization and revolutionary, patent pending, REME-LED™ technology.

- New REME-LED technology utilizing RGF's patented PHI and REME® technologies providing superior indoor air purification.
- New hybrid hydrophilic catalyst incorporating the industry's first washable ceramic catalyst
- Includes automatic self-cleaning ionizers with carbon fiber brushes to reduce particulates (Patent Pending)
- Unlimited cycling capability designed to turn on/off with the HVAC system
- 24 VAC/DC input (24 VAC transformer included)
- Long-life replaceable LED cell module with 2.5x longer life than current mercury vapor UV lamp technologies
- Industry's first washable catalyst for high load environments (ie. cigar bars, smoking rooms)
- Reduces airborne and surface microbials, bacteria, viruses, and mold
- Reduction of smoke, odors, VOCs, allergens, dust, and particulates
- Seven-year limited warranty

Part No.	Application	Voltage	CFM
HALOLED	Residential	24	1000 - 6500


UNVPTAC

PTAC HVAC AIR PURIFICATION SYSTEM

The PTAC HVAC Air Purification System by RGF® utilizes PHI Cell® Technology. This small but powerful air purifier reduces odors, air pollutants, VOCs (volatile organic compounds), smoke, mold, bacteria and viruses. It is specifically designed for Packaged Terminal Air Conditioning units, for short PTAC, which are commonly found in hotel rooms, motel rooms, apartments, condominiums, senior-housing facilities, add-on rooms, sunrooms and hospitals. The product is easily mounted into a PTAC system without modification. When the HVAC system is in operation, the PTAC HVAC-PHI Cell creates an advanced oxidation process consisting of hydro-peroxides, super oxide ions and hydroxide ions. All are natural and friendly oxidizers. By friendly oxidizers, we mean oxidizers that revert back to oxygen and hydrogen after the oxidation/ elimination of the pollutant.

				Dimensions (In.)	
Part No.	**Voltage**	**CFM**	**Tonnage**	**W**	**D**
UNVPTAC	115/1	250 - 500	0.625 – 1.25	8.00	3.00



HUMIDIFIER


RP500M

BYPASS FLOW, THROUGH

Uses return to move air across water panel.

- RP500,550, 600M - economy model for smaller houses; traditional manual humidistat control
- 600A - automatic computer control

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Capacity (GPD)	Voltage	Control	Ship Wgt (Lbs.)
RP500M	12	24	Manual	8.00
600M	16.8	24	Manual	12.00
600A	16.8	24	Automatic	14.00


RP300

BYPASS, RECIRCULATING

For areas where drain facilities are no practical.

- Automatic computer control

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Capacity (GPD)	Voltage	Ship Wgt (Lbs.)
RP300	13	120	28.00
RP400	16.8	24	20.00

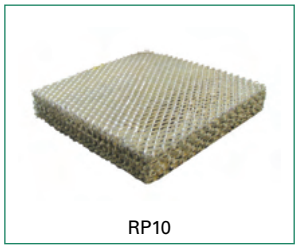

700A

POWER FLOW THROUGH

- Eliminates supply to return ducting
- 700,700A: Automatic computer control with outdoor temperature sensor; 700M: Manual control

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Control Type	Capacity (GPD)	Voltage	Ship Wgt (Lbs.)
700A	Automatic Digital	18	120	19.00
700M	Manual	18	120	17.00


RP10

WATER PANEL MAINTENANCE KITS

RP45 sold as a package of 2

RP4839: RP35 water panel, RP4330 Scale Control Insert, RP4335 feed tube and compression sleeve, RP4331 water distribution tray, RP4231 orifice, and RP4004 inline strainer. For use in models 600, 600A and 600M.

RP4792: RP10 water panel, RP4640 Scale Control Insert, RP4335 feed tube and compression sleeve, RP4331 water distribution tray, RP4231 orifice and RP4004 inline strainer. For use in Models 500, 500A and 500M.

RP4837: RP35 water panel, RP4236 Scale Control Insert, RP4266 feed tube and compression sleeve, RP4277 water distribution tray, RP4231 orificeand RP4004 inline strainer. For Model 560

RP4750:RP35 water panel, RP4236 Scale Control Insert, RP4235 feed tube and compression sleeve, RP4246 water distribution tray, RP4232 orifice and RP4004 inline strainer. For Model 700

RP4793: RP10 water panel, RP4217 Scale Control Insert (black plastic frame), RP4226 feed tube and compression sleeve, RP4218 water distribution tray, RP4231 orifice and RP4004 inline strainer. For Model 550

RP4788: RP45 water panel (2 pack for one season), RP4403 Scale Control Insert, RP4407 Water Distribution Tray, RP4406 Float Assembly, RP4335 feed tube and compression sleeve that includes a 4231 orifice and RP4004 inline strainer. For use in Models 400, 400A and 400M.

RP4785: RP35 water panel, RP4181 Scale Control Insert, RP4281 Water Distribution Tray, RP4079 feed tube and compression sleeve that includes a RP4232 orifice humidifier, and RP4004 inline strainer. For use in Models 350 or 360.

IRP RESEARCH PRODUCTS CORPORATION

Part No.	Description	Use with
RP10	Water Panel	110,220,500,550,550A,558
RP12	Water Panel	112,224,225,440,445,445A,448
RP35	Water Panel	350,360,560,560A,568,600,760,760A,768,700
RP45	Water Panel	400
RP4839	Maintenance Kit	600,600A,600M
RP4792	Maintenance Kit	500,500A,500M
RP4837	Maintenance Kit	560
RP4750	Maintenance Kit	700
RP4793	Maintenance Kit	550
RP4788	Maintenance Kit	400,400A,400M
RP4785	Maintenance Kit	350,360

HUMIDIFIER



HC22A1007

WATER PANEL

- Also replaces indicated R/P pads
- Standard (A) or AgION™ (E) Anti-Microbial Humidifier Pads

Honeywell Home

Part No.	Use with
HC22A1007	Honeywell HE100, HE150, HE220, HE225, Aprilaire Models 110, 220, 550, 558
HC22E1003	Honeywell HE100, HE150, HE220, HE225, Aprilaire Models 110, 220, 550, 558
HC26A1008	Honeywell HE200, HE250, HE260, HE265, HE300, HE360, HE365, Aprilaire 350, 360, 560, 568, 600, 700, 760, 768
HC26E1004	Honeywell HE200, HE250, HE260, HE265, HE300, HE360, HE365, Aprilaire 350, 360, 560, 568, 600, 700, 760, 769



800

STEAM POWER

- Is not dependant on an HVAC system to provide humidity to the largest of homes.
- Remote mount with additional accessories (RP850)
- Features truly automatic control (can be installed in manual mode if desired)
- Complements non-forced air heating sources and other specialty heating systems.
- Humidifies tightly-constructed homes up to 6,200 ft
- Water hardness, 3 to 36 grain per gallon, water filtration not necessary
- Supply water pressure must be between 25 psi and 120 psi

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Capacity (GPD)	Control Type	Amps	Voltage	Operating Wgt (Lbs.)	Ship Wgt (Lbs.)
800	23.3 240 V	Automatic	11.5	115/1, 208-240/1	23	20.00



HM750A1000

ADVANCED ELECTRODE HUMIDIFIER

- Dependable on-demand steam humidification solution
- Allowing rapid installation and service
- Only duct mountable solution enabling retrofit and new installation
- Smallest product footprint allowing application flexibility
- Communication with a variety of thermostat options including Lyric, PrestigeIAQ, and VisionPRO
- HumidiPRO included
- Humidifier replacement cylinder designed for Rapid, simplified, DIY replacement (recommended annually dependent on water quality)
- Dimensions: 7" H x 10" W x 20.8" D
- 5-Year complete warranty

Honeywell Home

Part No.	Capacity (GPD)	Ship Wgt (Lbs.)
HM750A1000	11 or 22	18.90



CM200

BYPASS FLOW THROUGH

- Easy to install, compact, and durable design.
- Adjustable, precision duct or wall mounted humidistat allow the unit to be set for optimum relative humidity.
- Universal mounting allows for left or right side air intake when installed.
- 2" evaporator pad expands the evaporative area for water supply and increases performance.
- Accessible from the front, making pad changes easy.
- Serviceable internal water filter protects solenoid.
- Self-piercing saddle valve and a 24v brass solenoid valve makes installation easy.
- Wide 6" duct collar for ease of installation.
- Complete installation kit and humidistat control included for immediate installation.
- Dimensions: 13"W x 12"H x 8 3/4"D

TRION® Air Purification Systems

Part No.	Capacity (GPD)	Voltage	Ship Wgt (Lbs.)
CM200	13	24	8.00


UHS24

UNIVERSAL HUMIDIFIER SOLENOID

This universal solenoid can replace common units such as Aprilaire 4040, General's 990-53, Honeywell's 32001639-002, and the Skuttle A01-0814-148 in 24V versions.

All appropriate fittings are included in the kit with a universal bracket. Flow can easily be reversed by removing two screws, turning the solenoid 180 degrees, and replacing the screws.

ESP ENERGY SAVING PRODUCTS

Part No.	Description
UHS24	Universal Humidifier Solenoid

PORTABLE AIR PURIFICATION SYSTEM


PIPMAX

PIP-MAX™ PORTABLE AIR PURIFICATION SYSTEM

The PIP-MAX™ portable air purification system utilizes RGF's patented REME-HALO® technology reducing air pollutants such as bacteria, microbials, viruses, mold, smoke, and VOCs. Leveraging ionization the PIP-MAX™ provides the added benefit of reducing airborne allergens, dust and particulates. Plugging directly into the existing wall outlet, the PIP-MAX™ can be installed in any room and offers an additional power outlet on the unit housing. Quickly and reliably resolve all your air quality issues with the portable PIP-MAX™ active air purification system.

- REME-HALO® technology
- Up to 800 sq. ft. coverage
- Ionization
- Easy installation
- Tamper proof
- Low maintenance
- High/Low Fan Switch
- Built-in electrical outlet
- Dimensions: 6.25"L x 3.75"D x 10"H
- 2 year warranty

RGF ENVIRONMENTAL GROUP, INC.

		Dimensions (In.)	
Part No.	**Voltage**	**W**	**D**
PIPMAX	110 Vac	6.25	3.75


REMEION

REME ION™

The REME ION™ improves air quality in the home or office by efficiently reducting allergens, odor, modle, bacterio and VOCs. Employing REME-LED™ technology, advanced oxidation and ionization, the REME ION™ quietly cleans the air you breathe.

- Plugs into existing outlets
- No wiring required
- Economical and portable
- Low maintenance
- Advanced catalyst
- Bi-polar ionization
- Washable filters

RGF ENVIRONMENTAL GROUP, INC.

		Dimensions (In.)	
Part No.	**Voltage**	**W**	**D**
REMEION	12 VDC 0.4 A	2.76	2.76

DEHUMIDIFIER


RPE080

PROFESSIONAL GRADE DEHUMIDIFIER

- Recognized as the Most Efficient of ENERGY STAR® 2021
- REDUCE PROLIFERATION OF AIRBORNE VIRUSES
- BUILT TO LAST with corrosion-resistant aluminum coils in the U.S.A. by Aprilaire, the leader in indoor air quality solutions
- HELPS PREVENT MOLD, TERMITES, STRUCTURAL WOOD ROT, AND ODORS
- NO MESSY WATER TRAY TO EMPTY and simple to set up - just place the hose or place dehumidifier over a drain, level it, plug it in, set the target humidity and you're done
- SET IT AND FORGET IT control automatically starts dehumidification when humidity above target is sensed

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Capacity Pints/ Day	CFM	Amps	Voltage	Ship Wgt (Lbs.)
RPE080	80	185 @ 0.0" w.c.	5.1	115/1	81.00
E100RP	100	280 @ 0.0" w.c.	6.9	115/1	82.00
RPE100C	100	280 0.0" w.c	6.9	120/1	75.00
RPE130	130	310 @ 0.0" w.c	8.3	120/1	108.00

DEHUMIDIFIER


DHCUBE35P

CUBE DEHUMIDIFIERS (115 VOLTS)

	Dimensions (In.)		
Part No.	W	H	Ship Wgt (Lbs.)
DHCUBE35P	1.00	1.00	45.04
DHCUBE50	1.00	1.00	45.19
DHCUBE50P	1.00	1.00	46.01


DH450SM

PORTABLE

- Auto shut off
- Drain hose connection
- Adjustable air guide
- Low power consumption
- Digital display
- Filter alert
- Full tank alarm
- Caster wheels
- Voltage: 115/1/60
- DH470SMP and DH495SMPA include condensate pump with 6.3 ft of lift

		Dimensions (In.)			
Part No.	Capacity Pints/Day	W	H	D	Ship Wgt (Lbs.)
DH450SM*	50	15.40	23.20	10.80	41.80
DH450SMB	60	12.99	25.87	16.93	36.30
DH450SMPB	50	12.99	25.87	16.93	43.00
DH460SMPB	60	16.14	25.87	20.47	58.00
DH495SMPA*[1]	95	18.80	24.60	14.20	58.00

[1] Includes condensate pump with 6.3 ft lift


DR65A3000

WHOLE HOUSE DEHUMIDIFIER

Utilizes refrigeration and internal air circulation to cool the incoming air stream below its dew point. Water condenses and drains off the coil, sending drier air back into the house.

- Built-in humidity control requires no additional wiring to an external control. Choice of external control options also available for centrally ducted control.
- Separate control for ventilation, so the powerful onboard blower can be used to efficiently bring fresh air into the house even when dehumidification is not needed.
- E-Coated Coil delivers longer life and increased efficiency.
- Integrated set and forget humidistat
- Side ducted exhaust
- Reduced noise during operation
- MERV 11 air filtration
- ENERGY STAR RATED

			Dimensions (In.)			
Part No.	Capacity Pints/Day	Voltage	W	H	L	Ship Wgt (Lbs.)
DR65A3000	65	120	12.00	12.00	28.50	69.00
DR90A3000	90	120	14.33	19.33	32.19	100.00
DR120A3000	120	120	14.33	19.33	32.19	108.00

DISPOSABLE FIBERGLASS FILTER


7X36X1/2

FIBERGLASS AIR FILTER

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
7X36X1/2	7.00	36.00	1.00	12
7-3/4X18-7/8X1/2	7 3/4	18 7/8	1/2	12
8X22X1/2	8.00	22.00	1.00	12
8X24X1/2	8.00	24.00	1.00	12
9X32X1/2	9.00	32.00	1.00	12
9X36X1/2	9.00	36.00	1.00	12
9-3/4X29-1/4X1/2	9 3/4	29 1/4	1.00	12
9-3/8X16-1/2X1/2	9 3/8	16 1/2	1.00	12
10X32X1/2	10.00	32.00	1/2	12
11X22X1/2	11.00	22.00	1/2	12
20X25X1/2	20.00	25.00	1.00	12

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



6X14X1

FIBERGLASS 1 SIDE SUPPORT - NOMINAL 1" THICKNESS

Media support is provided on the downstream side only.

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
6X14X1	6.00	14.00	1.00	12
8X10X1	8.00	10.00	1.00	12
9X13X1	9.00	13.00	1.00	12
10X10X1	10.00	10.00	1.00	12
11X14X1	11.00	14.00	1.00	12
12X12X1	12.00	12.00	1.00	12
13X13X1	13.00	13.00	1.00	12
14X14X1	14.00	14.00	1.00	12
15X15X1	15.00	15.00	1.00	12
16X16X1	16.00	16.00	1.00	12
17X17X1	17.00	17.00	1.00	12
18X18X1	18.00	18.00	1.00	12
19X19X1	19.00	19.00	1.00	12
20X20X1	20.00	20.00	1.00	12
21X21X1	21.00	21.00	1.00	12
22X22X1	22.00	22.00	1.00	12
23X23X1	23.00	23.00	1.00	12
24X24X1	24.00	24.00	1.00	12
25X25X1	25.00	25.00	1.00	12
27X27X1	27.00	27.00	1.00	12
28X30X1	28.00	30.00	1/2	12
30X30X1	30.00	30.00	1.00	12
32X44X1	32.00	44.00	1.00	12



10X10X2

FIBERGLASS 1 SIDE SUPPORT - NOMINAL 2" THICKNESS

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X2	10.00	10.00	2.00	12
12X12X2	12.00	12.00	2.00	12
14X14X2	14.00	14.00	2.00	12
15X18X2	15.00	18.00	2.00	12
16X16X2	16.00	16.00	2.00	12
17X24X2	17.00	24.00	2.00	12
18X18X2	18.00	18.00	2.00	12
20X20X2	20.00	20.00	2.00	12
22X22X2	22.00	22.00	2.00	12
23X25X2	23.00	25.00	2.00	12
24X24X2	24.00	24.00	2.00	12
25X25X2	25.00	25.00	2.00	12
28X32X2	28.00	32.00	2.00	12



6X12X1HD

FIBERGLASS 2 SIDE SUPPORT - NOMINAL 1" THICKNESS

Media support is provided on both sides of the filtering medium.

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
6X12X1HD	6.00	12.00	1.00	12
7X41X1HD	7.00	41.00	1.00	12
8X16X1HD	8.00	16.00	1.00	12
9X16X1HD	9.00	16.00	1.00	12
10X10X1HD	10.00	10.00	1.00	12
12X12X1HD	12.00	12.00	1.00	12
13X13X1HD	13.00	13.00	1.00	12
14X14X1HD	14.00	14.00	1.00	12
15X15X1HD	15.00	15.00	1.00	12
16X16X1HD	16.00	16.00	1.00	12
17X22X1HD	17.00	22.00	1.00	12
18X18X1HD	18.00	18.00	1.00	12
19X25X1HD	19.00	25.00	1.00	12
20X21X1HD	20.00	21.00	1.00	12
21X21X1HD	21.00	21.00	1.00	12
22X22X1HD	22.00	22.00	1.00	12
24X24X1HD	24.00	24.00	1.00	12
25X25X1HD	25.00	25.00	1.00	12
28X30X1HD	28.00	30.00	1.00	12
29X29X1HD	29.00	29.00	1.00	12
30X30X1HD	30.00	30.00	1.00	12

DISPOSABLE FIBERGLASS FILTER



10X14X2HD

FIBERGLASS 2 SIDE SUPPORT - NOMINAL 2" THICKNESS

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X14X2HD	10.00	14.00	2.00	12
12X20X2HD	12.00	20.00	2.00	12
14X20X2HD	14.00	20.00	2.00	12
15X20X2HD	15.00	20.00	2.00	12
16X16X2HD	16.00	16.00	2.00	12
18X18X2HD	18.00	18.00	2.00	12
20X20X2HD	20.00	20.00	2.00	12
24X24X2HD	24.00	24.00	2.00	12
25X25X2HD	25.00	25.00	2.00	12
26X29X2HD	26.00	29.00	2.00	12
28X30X2HD	28.00	30.00	2.00	12
30X36X2HD	30.00	36.00	2.00	12



10X10X1EZF2

FIBERGLASS EZ FLOW NO SUPPORT - NOMINAL 1" THICKNESS

• Instead of a metal media retainer, a very fine spray of fiberglass is blown onto E-Z Flow II's media surface fibers. That creates a tough mesh on both faces of the filter media. This mesh takes the place of the metal grill to provide structural integrity.

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X1EZF2	10.00	10.00	1.00	12
12X12X1EZF2	12.00	12.00	1.00	12
14X20X1EZF2	14.00	20.00	1.00	12
15X20X1EZF2	15.00	20.00	1.00	12
16X16X1EZF2	16.00	16.00	1.00	12
17X19X1EZF2	17.00	19.00	1.00	12
18X18X1EZF2	18.00	18.00	1.00	12
20X20X1EZF2	20.00	20.00	1.00	12
21X21X1EZF2	21.00	21.00	1.00	12
22X22X1EZF2	22.00	22.00	1.00	12
24X24X1EZF2	24.00	24.00	1.00	12
25X25X1EZF2	25.00	25.00	1.00	12



12X20X2EZF2

FIBERGLASS EZ FLOW NO SUPPORT - NOMINAL 2" THICKNESS

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X20X2EZF2	12.00	20.00	2.00	12
12X24X2EZF2	12.00	24.00	2.00	12
16X16X2EZF2	16.00	16.00	2.00	12
18X18X2EZF2	18.00	18.00	2.00	12
20X20X2EZF2	20.00	20.00	2.00	12
24X24X2EZF2	24.00	24.00	2.00	12
25X25X2EZF2	25.00	25.00	2.00	12

POLY SYNTHETIC FILTER



6X24X1P

POLYESTER NOMINAL 1" THICKNESS

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
6X24X1P	6.00	24.00	1.00	12
7X32X1P	7.00	32.00	1.00	12
8X15X1P	8.00	15.00	1.00	12
10X10X1P	10.00	10.00	1.00	12
11X22X1P	11.00	22.00	1.00	12
12X12X1P	12.00	12.00	1.00	12
13X18X1P	13.00	18.00	1.00	12
14X14X1P	14.00	14.00	1.00	12
15X15X1P	15.00	15.00	1.00	12
16X16X1P	16.00	16.00	1.00	12
17X22X1P	17.00	22.00	1.00	12
18X18X1P	18.00	18.00	1.00	12
19X19X1P	19.00	19.00	1.00	12
20X20X1P	20.00	20.00	1.00	12
21X21X1P	21.00	21.00	1.00	12
22X22X1P	22.00	22.00	1.00	12
23X24X1P	23.00	24.00	1.00	12
24X24X1P	24.00	24.00	1.00	12
25X25X1P	25.00	25.00	1.00	12
29X30X1P	29.00	30.00	1.00	12
30X30X1P	30.00	30.00	1.00	12
36X36X1P	36.00	36.00	1.00	12



9X13X2P

NOMINAL 2" THICKNESS

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
9X13X2P	9.00	13.00	2.00	12
10X20X2P	10.00	20.00	2.00	12
12X20X2P	12.00	20.00	2.00	12
14X14X2P	14.00	14.00	2.00	12
15X20X2P	15.00	20.00	2.00	12
16X16X2P	16.00	16.00	2.00	12
18X18X2P	18.00	18.00	2.00	12
20X20X2P	20.00	20.00	2.00	12
22X22X2P	22.00	22.00	2.00	12
24X24X2P	24.00	24.00	2.00	12
25X25X2P	25.00	25.00	2.00	12
28X30X2P	28.00	30.00	2.00	12
30X32X2P	30.00	32.00	2.00	12



10X10X1EZFP2

POLYESTER EZ FLOW 1" THICKNESS, MERV 5

****More sizes available on uri.com or at your local branch.****

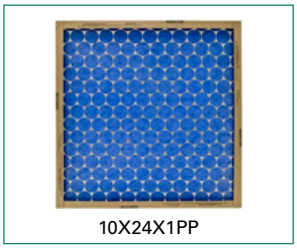
	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X1EZFP2	10.00	10.00	1.00	12
12X20X1EZFP2	12.00	20.00	1.00	12
14X14X1EZFP2	14.00	14.00	1.00	12
15X20X1EZFP2	15.00	20.00	1.00	12
16X25X1EZFP2	16.00	25.00	1.00	12
18X20X1EZFP2	18.00	20.00	1.00	12
20X24X1EZFP2	20.00	24.00	1.00	12
25X25X1EZFP2	25.00	25.00	1.00	12



14X20X2EZFP2

POLYESTER EZ FLOW 2" THICKNESS, MERV 5

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
14X20X2EZFP2	14.00	20.00	2.00	12
15X20X2EZFP2	15.00	20.00	2.00	12
16X20X2EZFP2	16.00	20.00	2.00	12
16X24X2EZFP2	16.00	24.00	2.00	12
16X25X2EZFP2	16.00	25.00	2.00	12
20X20X2EZFP2	20.00	20.00	2.00	12
20X24X2EZFP2	20.00	24.00	2.00	12
20X25X2EZFP2	20.00	25.00	2.00	12
24X24X2EZFP2	24.00	24.00	2.00	12

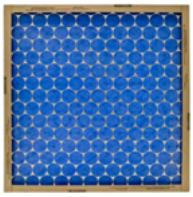


10X24X1PP

POLY MODIFIED PINCH FRAME 1" THICKNESS, MERV 4

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X24X1PP	10.00	24.00	1.00	12
10X30X1PP	10.00	30.00	1.00	12
12X25X1PP	12.00	25.00	1.00	12
12X30X1PP	12.00	30.00	1.00	12
14X20X1PP	14.00	20.00	1.00	12
14X24X1PP	14.00	24.00	1.00	12
14X25X1PP	14.00	25.00	1.00	12
15X20X1PP	15.00	20.00	1.00	12
15X25X1PP	15.00	25.00	1.00	12
16X24X1PP	16.00	24.00	1.00	12
16X25X1PP	16.00	25.00	1.00	12
18X18X1PP	18.00	18.00	1.00	12
18X24X1PP	18.00	24.00	1.00	12
18X25X1PP	18.00	25.00	1.00	12
20X20X1PP	20.00	20.00	1.00	12
20X25X1PP	20.00	25.00	1.00	12
20X30X1PP	20.00	30.00	1.00	12
22X22X1PP	22.00	22.00	1.00	12
24X24X1PP	24.00	24.00	1.00	12
24X30X1PP	24.00	30.00	1.00	12

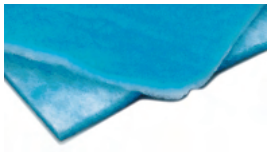
POLY SYNTHETIC FILTER



12X24X2PP

POLY MODIFIED PINCH FRAME 2" THICKNESS, MERV 4

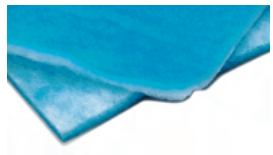
	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X2PP	12.00	24.00	2.00	12
14X20X2PP	14.00	20.00	2.00	12
14X25X2PP	14.00	25.00	2.00	12
15X20X2PP	15.00	20.00	2.00	12
16X16X2PP	16.00	16.00	2.00	12
16X20X2PP	16.00	20.00	2.00	12
18X24X2PP	18.00	24.00	2.00	12
20X20X2PP	20.00	20.00	2.00	12
20X24X2PP	20.00	24.00	2.00	12
24X24X2PP	24.00	24.00	2.00	12
25X25X2PP	25.00	25.00	2.00	12



1DT1620

POLYESTER FILTER PAD

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
1DT1620	16.00	20.00	1.00	12
1DT1625	16.00	25.00	1.00	12
1DT2020	20.00	20.00	1.00	12
1DT2025	20.00	25.00	1.00	12
1DT2525	25.00	25.00	1.00	12
2DT1620	16.00	20.00	2.00	12
2DT1625	16.00	25.00	2.00	12
2DT2020	20.00	20.00	2.00	12
2DT2025	20.00	25.00	2.00	12



5DT1010

POLYESTER FRAMELESS FILTER PAD

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
5DT1010	10.00	10.00	1/2	12
5DT2424	24.00	24.00	1/2	12
1DT1040	10.00	40.00	1.00	12
1DT1111	11.00	11.00	1.00	12
1DT1214	12.00	14.00	1.00	12
1DT1224	12.00	24.00	1.00	12
1DT137580	13 3/4	80.00	1.00	12
1DT1480	14.00	80.00	1.00	12
1DT1618	16.00	18.00	1.00	12
1DT2024	20.00	24.00	1.00	12
1DT2032	20.00	32.00	1.00	12
1DT2064	20.00	67.00	1.00	12
1DT2226	22.00	26.00	1.00	12
1DT624	6.00	24.00	1.00	12
1DT78	7.00	8.00	1.00	12
2DT1224	12.00	24.00	2.00	12
2DT2024	20.00	24.00	2.00	12
2DT2030	20.00	30.00	2.00	12
2DT2035	20.00	35.00	2.00	12
2DT2424	24.00	24.00	2.00	12
5DT1224	12.00	24.00	1/2	12

PLEATED FILTER



5X13X1AB40

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 8

- Average efficiency: 25-30%
- Average arrestance: 90-93% (ASHRAE 52.1-92)

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
5X13X1AB40	5.00	13.00	1.00	12
6X10X1AB40	6.00	10.00	1.00	12
7X11X1AB40	7.00	11.00	1.00	12
8X12X1AB40	8.00	12.00	1.00	12
9X18X1AB40	9.00	18.00	1.00	12
10X10X1AB40	10.00	10.00	1.00	12
11X11X1AB40	11.00	11.00	1.00	12
12X12X1AB40	12.00	12.00	1.00	12
14X19X1AB40	14.00	19.00	1.00	12
16X16X1AB40	16.00	16.00	1.00	12

Continued on next page

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
17X17X1AB40	17.00	17.00	1.00	12
18X19X1AB40	18.00	19.00	1.00	12
20X20X1AB40	20.00	20.00	1.00	12
21X21X1AB40	21.00	21.00	1.00	12
22X22X1AB40	22.00	22.00	1.00	12
22X37X1AB40	22.00	37.00	1.00	12
24X25X1AB40	24.00	25.00	1.00	12
25X30X1AB40	25.00	30.00	1.00	12
26X30X1AB40	26.00	30.00	1.00	12
27X28X1AB40	27.00	28.00	1.00	12
28X34X1AB40	28.00	34.00	1.00	12
29X29X1AB40	29.00	29.00	1.00	12
30X30X1AB40	30.00	30.00	1.00	12



7X16X2AB40

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 8

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
7X16X2AB40	7.00	16.00	2.00	12
8X12X2AB40	8.00	12.00	2.00	12
9X20X2AB40	9.00	20.00	2.00	12
10X10X2AB40	10.00	10.00	2.00	12
11X11X2AB40	11.00	11.00	2.00	12
12X12X2AB40	12.00	12.00	2.00	12
13X13X2AB40	13.00	13.00	2.00	12
14X14X2AB40	14.00	14.00	2.00	12
15X15X2AB40	15.00	15.00	2.00	12
16X16X2AB40	16.00	16.00	2.00	12
17X17X2AB40	17.00	17.00	2.00	12
18X18X2AB40	18.00	18.00	2.00	12
19X20X2AB40	19.00	20.00	2.00	12
20X21X2AB40	20.00	21.00	2.00	12
21X21X2AB40	21.00	21.00	2.00	12
22X26X2AB40	22.00	26.00	2.00	12
23X24X2AB40	23.00	24.00	2.00	12
24X30X2AB40	24.00	30.00	2.00	12
25X25X2AB40	25.00	25.00	2.00	12
26X29X2AB40	26.00	29.00	2.00	12
27X30X2AB40	27.00	30.00	2.00	12
29X30X2AB40	29.00	30.00	2.00	12
30X36X2AB40	30.00	36.00	2.00	12
40X42X2AB40	40.00	42.00	2.00	12

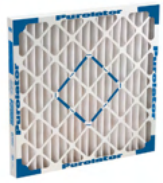


8X11X4AB40

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 8

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
8X11X4AB40	8.00	11.00	4.00	6
12X16X4AB40	12.00	16.00	4.00	6
14X18X4AB40	14.00	18.00	4.00	6
15X24X4AB40	15.00	24.00	4.00	6
16X22X4AB40	16.00	22.00	4.00	6
17X26X4AB40	17.00	26.00	4.00	6
18X18X4AB40	18.00	18.00	4.00	6
19X20X4AB40	19.00	20.00	4.00	6
20X23X4AB40	20.00	23.00	4.00	6
22X22X4AB40	22.00	22.00	4.00	6
25X25X4AB40	25.00	25.00	4.00	6
27X28X4AB40	27.00	28.00	4.00	6
28X30X4AB40	28.00	30.00	4.00	6
30X30X4AB40	30.00	30.00	4.00	6
33X37X4AB40	33.00	37.00	4.00	6



10X10X1FME40

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 8

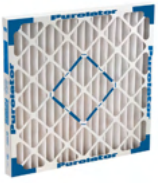
****More sizes available on uri.com or at your local branch.****

Purolator

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X1FME40*	10.00	10.00	1.00	12
12X16X1FME40*	12.00	16.00	1.00	12
14X14X1FME40*	14.00	14.00	1.00	12
15X20X1FME40*	15.00	20.00	1.00	12
16X16X1FME40*	16.00	16.00	1.00	12
18X20X1FME40*	18.00	20.00	1.00	12
20X20X1FME40*	20.00	20.00	1.00	12
24X24X1FME40*	24.00	24.00	1.00	12
25X25X1FME40*	25.00	25.00	1.00	12

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

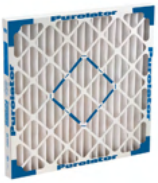
PLEATED FILTER



10X20X2FME40

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X20X2FME40*	10.00	20.00	2.00	24
12X20X2FME40*	12.00	20.00	2.00	24
12X24X2FME40*	12.00	24.00	2.00	24
14X20X2FME40*	14.00	20.00	2.00	12
14X25X2FME40*	14.00	25.00	2.00	12
15X20X2FME40*	15.00	20.00	2.00	12
16X16X2FME40*	16.00	16.00	2.00	12
16X20X2FME40*	16.00	20.00	2.00	12
16X24X2FME40*	16.00	24.00	2.00	12
16X25X2FME40*	16.00	25.00	2.00	12
18X20X2FME40*	18.00	20.00	2.00	12
18X24X2FME40*	18.00	24.00	2.00	12
18X25X2FME40*	18.00	25.00	2.00	12
20X20X2FME40*	20.00	20.00	2.00	12
20X24X2FME40*	20.00	24.00	2.00	12
20X25X2FME40*	20.00	25.00	2.00	12
20X30X2FME40*	20.00	30.00	2.00	12
24X24X2FME40*	24.00	24.00	2.00	12
25X25X2FME40*	25.00	25.00	2.00	12



12X24X4FME40

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X4FME40*	12.00	24.00	4.00	6
16X20X4FME40*	16.00	20.00	4.00	6
16X25X4FME40*	16.00	25.00	4.00	6
18X24X4FME40*	18.00	24.00	4.00	6
20X20X4FME40*	20.00	20.00	4.00	6
20X24X4FME40*	20.00	24.00	4.00	6
20X25X4FME40*	20.00	25.00	4.00	6
24X24X4FME40*	24.00	24.00	4.00	6



12X20X2SSP

PLEATED STANDARD CAPACITY KEY PLEAT 2" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X20X2SSP*	12.00	20.00	2.00	12
12X24X2SSP*	12.00	24.00	2.00	12
14X20X2SSP*	14.00	20.00	2.00	12
14X24X2SSP	14.00	24.00	2.00	12
14X25X2SSP*	14.00	25.00	2.00	12
14X30X2SSP	14.00	30.00	2.00	12
15X20X2SSP*	15.00	20.00	2.00	12
16X16X2SSP*	16.00	16.00	2.00	12
16X20X2SSP*	16.00	20.00	2.00	12
16X24X2SSP*	16.00	24.00	2.00	12
16X25X2SSP*	16.00	25.00	2.00	12
16X30X2SSP	16.00	30.00	2.00	12
18X18X2SSP*	18.00	18.00	2.00	12
18X20X2SSP*	18.00	20.00	2.00	12
18X24X2SSP*	18.00	24.00	2.00	12
18X25X2SSP*	18.00	25.00	2.00	12
20X20X2SSP*	20.00	20.00	2.00	12
20X22X2SSP	20.00	22.00	2.00	12
20X24X2SSP*	20.00	24.00	2.00	12
20X25X2SSP*	20.00	25.00	2.00	12
20X30X2SSP*	20.00	30.00	2.00	12
24X24X2SSP*	24.00	24.00	2.00	12
25X25X2SSP*	25.00	25.00	2.00	12



12X24X4SSP

PLEATED STANDARD CAPACITY KEY PLEAT 4" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X4SSP*	12.00	24.00	4.00	6
16X20X4SSP*	16.00	20.00	4.00	6
16X25X4SSP*	16.00	25.00	4.00	6
18X24X4SSP*	18.00	24.00	4.00	6
20X20X4SSP*	20.00	20.00	4.00	6
20X24X4SSP*	20.00	24.00	4.00	6
20X25X4SSP*	20.00	25.00	4.00	6
24X24X4SSP*	24.00	24.00	4.00	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


5X13X1CF

PLEATED STANDARD CAPACITY CHARCOAL 1" THICKNESS, MERV 8

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
5X13X1CF	5.00	13.00	1.00	12
12X20X1CF	12.00	20.00	1.00	12
14X30X1CF	14.00	30.00	1.00	12
15X20X1CF	15.00	20.00	1.00	12
16X20X1CF	16.00	20.00	1.00	12
16X24X1CF	16.00	24.00	1.00	12
16X25X1CF	16.00	25.00	1.00	12
18X22X1CF	18.00	22.00	1.00	12
18X25X1CF	18.00	25.00	1.00	12
20X20X1CF	20.00	20.00	1.00	12
20X22X1CF	20.00	22.00	1.00	12
20X24X1CF	20.00	24.00	1.00	12
20X25X1CF	20.00	25.00	1.00	12
20X30X1CF	20.00	30.00	1.00	12
21X21X1CF	21.00	21.00	1.00	12
24X24X1CF	24.00	24.00	1.00	12


12X24X2CF

PLEATED STANDARD CAPACITY CHARCOAL 2" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X2CF	12.00	24.00	2.00	12
14X20X2CF	14.00	20.00	2.00	12
14X25X2CF	14.00	25.00	2.00	12
14X30X2CF	14.00	30.00	2.00	12
15X20X2CF	15.00	20.00	2.00	12
15X25X2CF	15.00	25.00	2.00	12
16X16X2CF	16.00	16.00	2.00	12
16X20X2CF	16.00	20.00	2.00	12
16X24X2CF	16.00	24.00	2.00	12
16X25X2CF	16.00	25.00	2.00	12
18X20X2CF	18.00	20.00	2.00	12
18X24X2CF	18.00	24.00	2.00	12
18X25X2CF	18.00	25.00	2.00	12
20X20X2CF	20.00	20.00	2.00	12
20X24X2CF	20.00	24.00	2.00	12
20X25X2CF	20.00	25.00	2.00	12
20X30X2CF	20.00	30.00	2.00	12


16X25X4CF

PLEATED STANDARD CAPACITY CHARCOAL 4" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
16X25X4CF	16.00	25.00	4.00	6
18X24X4CF	18.00	24.00	4.00	6
20X20X4CF	20.00	20.00	4.00	6
20X25X4CF	20.00	25.00	4.00	6


12X20X2AB40HC

PLEATED HIGH CAPACITY 2" THICKNESS, MERV 8

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X20X2AB40HC	12.00	20.00	2.00	12
12X24X2AB40HC	12.00	24.00	2.00	12
14X20X2AB40HC	14.00	20.00	2.00	12
16X20X2AB40HC	16.00	20.00	2.00	12
16X25X2AB40HC	16.00	25.00	2.00	12
18X20X2AB40HC	18.00	20.00	2.00	12
18X24X2AB40HC	18.00	24.00	2.00	12
20X20X2AB40HC	20.00	20.00	2.00	12
20X24X2AB40HC	20.00	24.00	2.00	12
24X24X2AB40HC	24.00	24.00	2.00	12

PLEATED FILTER



12X12X1GAB40

PLEATED STANDARD CAPACITY GRILLE 1" THICKNESS, MERV 8

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X12X1GAB40	12.00	12.00	1.00	12
14X14X1GAB40	14.00	14.00	1.00	12
16X16X1GAB40	16.00	16.00	1.00	12
18X18X1GAB40	18.00	18.00	1.00	12
20X20X1GAB40	20.00	20.00	1.00	12
21X21X1GAB40	21.00	21.00	1.00	12
24X14X1GAB40	24.00	14.00	1.00	12
24X18X1GAB40	24.00	18.00	1.00	12
24X20X1GAB40	24.00	20.00	1.00	12
24X24X1GAB40	24.00	24.00	1.00	12
30X18X1GAB40	30.00	18.00	1.00	12
36X18X1GAB40	36.00	18.00	1.00	12



10X18X1AB40E

PLEATED STANDARD CAPACITY EXACT 1" THICKNESS, MERV 8

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X18X1AB40E	10.00	18.00	1.00	12
11X28X1AB40E	11.00	28.00	1.00	12
13X27X1AB40E	13.00	27.00	1.00	12
14X14X1AB40E	14.00	14.00	1.00	12
14X46X1AB40E	14.00	46.00	1.00	12
17X24X1AB40E	17.00	24.00	1.00	12
17X28X1AB40E	17.00	28.00	1.00	12
20X20X1AB40E	20.00	20.00	1.00	12
24X24X1AB40E	24.00	24.00	1.00	12
25X30X1AB40E	25.00	30.00	1.00	12



10X10X1M10

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 10

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X1M10	10.00	10.00	1.00	12
14X20X1M10	14.00	20.00	1.00	12
18X18X1M10	18.00	18.00	1.00	12
24X24X1M10	24.00	24.00	1.00	12
25X25X1M10	25.00	25.00	1.00	12



10X20X2M10

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 10

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X20X2M10	10.00	20.00	2.00	12
12X20X2M10	12.00	20.00	2.00	12
14X20X2M10	14.00	20.00	2.00	12
15X20X2M10	15.00	20.00	2.00	12
16X16X2M10	16.00	16.00	2.00	12
18X20X2M10	18.00	20.00	2.00	12
24X24X2M10	24.00	24.00	2.00	12
25X25X2M10	25.00	25.00	2.00	12



12X24X4M10

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 10

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X4M10	12.00	24.00	4.00	6
16X16X4M10	16.00	16.00	4.00	6
16X20X4M10	16.00	20.00	4.00	6
16X24X4M10	16.00	24.00	4.00	6
16X25X4M10	16.00	25.00	4.00	6
18X24X4M10	18.00	24.00	4.00	6
20X20X4M10	20.00	20.00	4.00	6
20X24X4M10	20.00	24.00	4.00	6
20X25X4M10	20.00	25.00	4.00	6
24X24X4M10	24.00	24.00	4.00	6
25X29X4M10	25.00	29.00	4.00	6



12X24X1AB60

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 11

- Average efficiency: 35-45%

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X1AB60	12.00	24.00	1.00	12
16X22X1AB60	16.00	22.00	1.00	12
18X24X1AB60	18.00	24.00	1.00	12
24X24X1AB60	24.00	24.00	1.00	12



10X20X2AB60

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 11

- Average efficiency: 35-45%

****More sizes available on uri.com or at your local branch.****

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X20X2AB60	10.00	20.00	2.00	12
12X24X2AB60	12.00	24.00	2.00	12
16X24X2AB60	16.00	24.00	2.00	12
20X24X2AB60	20.00	24.00	2.00	12
24X24X2AB60	24.00	24.00	2.00	12



12X24X4AB60

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 11

- Average efficiency: 35-45%

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X4AB60	12.00	24.00	4.00	6
16X20X4AB60	16.00	20.00	4.00	6
16X25X4AB60	16.00	25.00	4.00	6
20X20X4AB60	20.00	20.00	4.00	6
20X24X4AB60	20.00	24.00	4.00	6
24X24X4AB60	24.00	24.00	4.00	6



14X20X162RM11

PLEATED STANDARD HIGH CAPACITY, MERV 11

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
14X20X162RM11	14.00	20.00	1.00	24
16X20X162RM11	16.00	20.00	1.00	24
16X25X12RM11	16.00	25.00		24
14X20X262RM11	14.00	20.00	1.00	12
14X25X262RM11	14.00	25.00	1.00	12
15X20X262RM11	15.00	20.00	1.00	12
16X16X262RM11	16.00	16.00	1.00	12
16X20X262RM11	16.00	20.00	1.00	12
18X24X262RM11	18.00	24.00	1.00	12
20X25X262RM11	20.00	25.00	1.00	12
24X24X262RM11	24.00	24.00	1.00	12
25X25X262RM11	25.00	25.00	1.00	12
16X18X462RM11	16.00	18.00	1.00	6
16X20X462RM11	16.00	20.00	1.00	6
17X26X462RM11	17.00	26.00	1.00	6
20X25X462RM11	20.00	25.00	1.00	6
24X24X462RM11	24.00	24.00	1.00	6
25X29X462RM11	25.00	29.00	1.00	6

PLEATED FILTER



PP11-16245

PRACTICAL PLEATED STANDARD HIGH CAPACITY 5" THICKNESS, MERV 11

	Dimensions (In.)		
Part No.	W	L	Thickness (In.)
PP11-16245	16.00	24.00	5.00
PP11-16255	16.00	25.00	5.00
PP11-18245	18.00	24.00	5.00
PP11-20205	20.00	20.00	5.00
PP11-20245	20.00	24.00	5.00
PP11-20255	20.00	25.00	5.00
PP11-20305	20.00	30.00	5.00
PP11-24245	24.00	24.00	5.00
PP11-24305	24.00	30.00	5.00
PP11-24365	24.00	36.00	5.00
PP11-30305	30.00	30.00	5.00



10X10X1M13

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 13

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X10X1M13	10.00	10.00	1.00	12
12X16X1M13	12.00	16.00	1.00	12
14X20X1M13	14.00	20.00	1.00	12
16X16X1M13	16.00	16.00	1.00	12
18X20X1M13	18.00	20.00	1.00	12
20X25X1M13	20.00	25.00	1.00	12
24X25X1M13	24.00	25.00	1.00	12



8X21X2M13

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 13

****More sizes available on uri.com or at your local branch.****

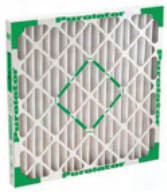
	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
8X21X2M13	8.00	21.00	2.00	12
10X14X2M13	10.00	14.00	2.00	12
12X20X2M13	12.00	20.00	2.00	12
15X20X2M13	15.00	20.00	2.00	12
16X20X2M13	16.00	20.00	2.00	12
17X22X2M13	17.00	22.00	2.00	12
18X18X2M13	18.00	18.00	2.00	12
20X28X2M13	20.00	28.00	2.00	12
22X25X2M13	22.00	25.00	2.00	12
30X30X2M13	30.00	30.00	2.00	12



12X24X4M13

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 13

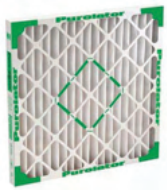
	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X24X4M13	12.00	24.00	4.00	6
16X20X4M13	16.00	20.00	4.00	6
16X25X4M13	16.00	25.00	4.00	6
18X24X4M13	18.00	24.00	4.00	6
20X20X4M13	20.00	20.00	4.00	6
20X25X4M13	20.00	25.00	4.00	6
24X24X4M13	24.00	24.00	4.00	6
24X25X4M13	24.00	25.00	4.00	6


12X20X1PR13

PLEATED STANDARD CAPACITY 1" THICKNESS, MERV 13

Purolator

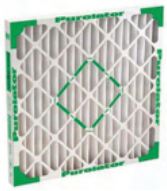
	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
12X20X1PR13	12.00	20.00	1.00	12
12X24X1PR13	12.00	24.00	1.00	12
14X20X1PR13	14.00	20.00	1.00	12
14X24X1PR13	14.00	24.00	1.00	12
14X25X1PR13	14.00	25.00	1.00	12
16X20X1PR13	16.00	20.00	1.00	12
16X24X1PR13	16.00	24.00	1.00	12
16X25X1PR13	16.00	25.00	1.00	12
17X21X1PR13	17.00	21.00	1.00	12
20X20X1PR13	20.00	20.00	1.00	12
20X24X1PR13	20.00	24.00	1.00	12
20X25X1PR13	20.00	25.00	1.00	12
21X24X1PR13	21.00	24.00	1.00	12
24X24X1PR13	24.00	24.00	1.00	12
25X25X1PR13	25.00	25.00	1.00	12


10X20X2PR13

PLEATED STANDARD CAPACITY 2" THICKNESS, MERV 13

Purolator

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
10X20X2PR13	10.00	20.00	2.00	12
12X20X2PR13	12.00	20.00	2.00	12
12X24X2PR13	12.00	24.00	2.00	12
14X14X2PR13	14.00	14.00	2.00	12
14X20X2PR13	14.00	20.00	2.00	12
14X25X2PR13	14.00	25.00	2.00	12
16X16X2PR13	16.00	16.00	2.00	12
16X20X2PR13	16.00	20.00	2.00	12
16X24X2PR13	16.00	24.00	2.00	12
16X25X2PR13	16.00	25.00	2.00	12
18X18X2PR13	18.00	18.00	2.00	12
18X24X2PR13	18.00	24.00	2.00	12
18X25X2PR13	18.00	25.00	2.00	12
20X20X2PR13	20.00	20.00	2.00	12
20X24X2PR13	20.00	24.00	2.00	12
20X25X2PR13	20.00	25.00	2.00	12
24X24X2PR13	24.00	24.00	2.00	12
25X25X2PR13	25.00	25.00	2.00	12


16X20X4PR13

PLEATED STANDARD CAPACITY 4" THICKNESS, MERV 13

Purolator

	Dimensions (In.)			
Part No.	W	L	Thickness (In.)	Box Qty
16X20X4PR13	16.00	20.00	4.00	6
16X25X4PR13	16.00	25.00	4.00	6
20X24X4PR13	20.00	24.00	4.00	6
20X25X4PR13	20.00	25.00	4.00	6
24X24X4PR13	24.00	24.00	4.00	6
12X24X4PR13	12.00	24.00	4.00	6


POPUP1620

POPUP MEDIA

Nominal size filters fit respective Honeywell media air cleaner housings and others. 2200 and 2400 fit those model Apriliaire media filter housings.

Honeywell Home

	Dimensions (In.)	
Part No.	W	L
POPUP1620	5.50	26.50
POPUP1625	5.00	29.00
POPUP2020	5.50	31.00
POPUP2025	5.00	33.00
POPUP2200	6.10	5.10
POPUP2400	5.00	32.00

PLEATED FILTER


FC40R1003

RETURN GRILL MEDIA

- Mounts in most third party return filter grilles.
- Provides high-efficiency alternative to one-inch filter.
- Captures particles as small as 0.3 micron.
- Pleated for greater media capacity.
- Easy installation. Pre-assembled filter easily inserts into and out of existing return grille.
- Exclusive frame design nests properly into place.
- Low pressure drop

Honeywell Home

	Dimensions (In.)		
Part No.	W	L	Thickness (In.)
FC40R1003	20.00	20.00	3.00
FC40R1011	20.00	25.00	3.00
FC40R1029	24.00	30.00	3.00
FC40R1045	14.00	25.00	3.00
FC40R1052	16.00	20.00	3.00
FC40R1060	16.00	25.00	3.00
FC40R1078	24.00	24.00	3.00
FC40R1110	14.00	20.00	3.00
FC40R1144	20.00	24.00	3.00

HOG HAIR ROLL


HH25530

Made of organic fibers that have been curled, layered onto a scrim backing, coated with a special resin, then baked together at a high temperature. The result of this process is a tough and springy, thoroughly bonded, nearly rigid air filtration medium. This rugged material can be cleaned and re-installed as an inexpensive permanent filter. Rated UL Class 2 for flammability.

- Rolls are 30' long

	Dimensions (In.)	
Part No.	W	Thickness (In.)
HH25530	25.00	1/2
HH20130	20.00	1.00
HH25130	25.00	1.00
HH30130	30.00	1.00
HH36130	36.00	1.00
HHB20130	20.00	1.00
HHB25130	25.00	1.00
HHB30130	30.00	1.00
HHB36130	36.00	1.00
HHB48130	48.00	1.00
SM100	20.00	1.00
SM105	20.00	1.00
SM150	25.00	1.00

HAMMOCK


HR24240

SPUN GLASS

Progressive density media, designed to trap dirt all through its thickness for longer filter life and no face loading. Fibers are loosely woven on the air-exit side.

- Rolls are 20' long

	Dimensions (In.)	
Part No.	W	Thickness (In.)
HR24240	24.00	1.00
HR30240	30.00	1.00
HR36240	36.00	1.00


1T20

POLY SYNTHETIC

Polyester synthetic fiber (PSF) media, produced from 100% high bulk polyester fibers that are thermobonded with a fire-retardant resin. PSF is extremely resilient and will withstand direct moisture. It is in many cases an ideal alternative in areas where spun glass is not recommended.

- Rolls are 20' long (10R25 is 90' long, super tackified)

	Dimensions (In.)	
Part No.	W	Thickness (In.)
1T20	20.00	1.00
1T24	24.00	1.00
1T25	25.00	1.00
1T26	26.00	1.00
1T30	30.00	1.00
1T48	48.00	1.00
1T58	58.00	1.00
1T65	65.00	1.00
1T72	72.00	1.00
2T36	36.00	2.00
5T20	20.00	1.00
5TS16	16.00	1.00
5TS48	48.00	1.00
HR24240P	24.00	1.00
HR30240P	30.00	1.00
HR36240P	36.00	1.00
PSF1DT16	16.00	1.00
PSF1DT20	20.00	1.00
PSF1DT	25.00	1.00
PSF1DT48	48.00	1.00
PSF1DT60	60.00	1.00
PSF5DT	25.00	1.00

FOAM ROLL

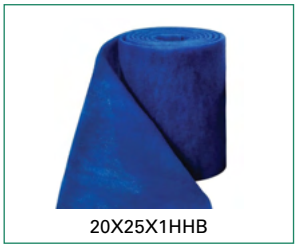

FR52520

A rugged polyurethane foam that is designed for use in room unit air conditioners and in pad-holding frames. It is washable and will withstand repeated cleaning with mild soap and water.

- Rolls are 25' long

	Dimensions (In.)	
Part No.	W	Thickness (In.)
FR52520	20.00	1/4
FR52524	24.00	1/4
FR55024	24.00	1/2
FR51024	24.00	1.00
FR55025	25.00	1/2
FR52530	30.00	1/4
FR55030	30.00	1/2
FR52536	36.00	1/4
FR55036	36.00	1/2

HOG HAIR PRE-CUT


20X25X1HHB

A pad made from organic fibers that are held together with a special latex binder. This unique pad filters by natural electrostatic attraction, created by air flowing over its fibers. It is washable, durable, and has very high dust holding capacity.

	Dimensions (In.)		
Part No.	W	L	Box Qty
20X25X1HHB	20.00	25.00	12
20X30X1HHB	20.00	30.00	12

KWIK KUT

FOAM

Kwik Kut room air conditioner filters are 15" x 24" pads of air filter media that can be easily cut to fit any window or wall mounted room air conditioner. They come packaged in see-through poly display bags. The packaging bears installation and care instructions.


AK1000

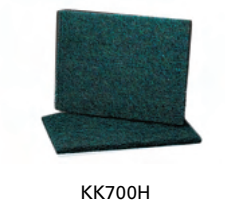
FOAM

By far the most popular and most commonly used of all room air conditioner filters. It is made with an open cell foam that can be washed like a sponge or vacuumed for repeat use. Foam Kwik Kuts are treated with a special anti-microbial to prevent growth of micro-organisms on the filter.

Plastic Back Foam: The same open cell foam media as described above, but laminated to a rigid plastic support grid.

	Dimensions (In.)			
Part No.	W	L	Thickness	Box Qty
AK1000	15.00	25.00	1/4	24
KK500F	15.00	24.00	1/4	24
KK1000P[1]	15.00	24.00	1/4	24

[1] Plastic Support Grid


KK700H

PERMAIRE

A pad made from organic fibers that are held together with a special latex binder. This unique pad filters by natural electrostatic attraction, created by air flowing over its fibers. It is washable, durable, and has very high dust holding capacity.

	Dimensions (In.)		
Part No.	W	L	Box Qty
KK700H	15.00	24.00	12

ALUMINUM AIR FILTER


12X19X1ALUM

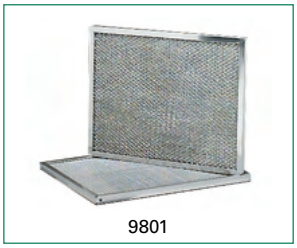
KKM WASHABLE ALUMINUM FILTER 1"

	Dimensions (In.)	
Part No.	W	L
12X19X1ALUM	12.00	19.00
14X14X1ALUM	14.00	14.00
15X20X1ALUM	15.00	20.00
16X20X1ALUM	16.00	20.00
17X37X1ALUM	17.00	37.00
18X24X1ALUM	18.00	24.00
19X24X1ALUM	19.00	24.00
20X24X1ALUM	20.00	24.00
21X26X1ALUM	21.00	26.00
22X30X1ALUM	22.00	30.00
24X24X1ALUM	24.00	24.00
25X25X1ALUM	25.00	25.00


12X24X2ALUM

KKM WASHABLE ALUMINUM FILTER 2"

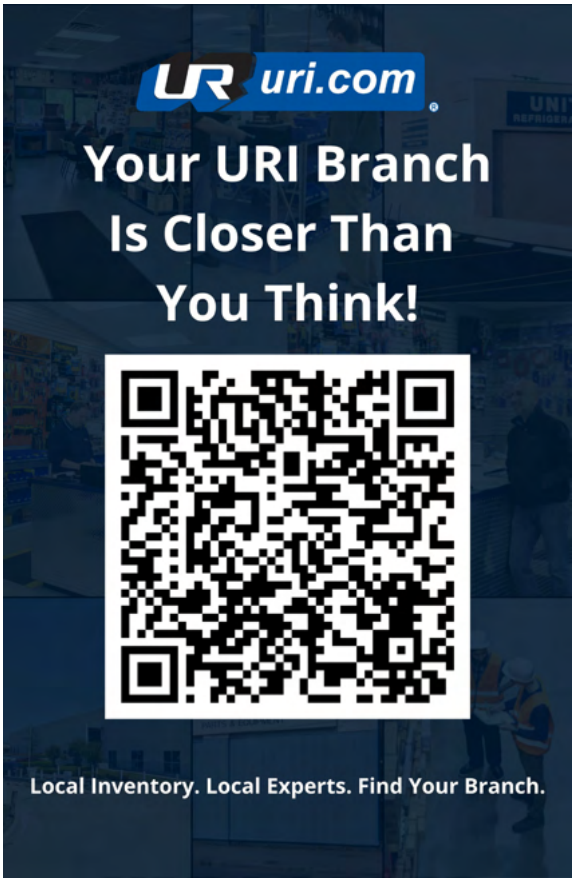
	Dimensions (In.)	
Part No.	W	L
12X24X2ALUM	12.00	24.00
14X20X2ALUM	14.00	20.00
15X20X2ALUM	15.00	20.00
16X20X2ALUM	16.00	20.00
16X24X2ALUM	16.00	24.00
16X25X2ALUM	16.00	25.00
18X25X2ALUM	18.00	25.00
20X20X2ALUM	20.00	20.00
20X25X2ALUM	20.00	25.00
24X24X2ALUM	24.00	24.00
25X25X2ALUM	25.00	25.00


9801

ALUMINUM AIR FILTER

RESEARCH PRODUCTS CORPORATION

	Dimensions (In.)	
Part No.	W	L
9801	20.00	25.00
9802	20.00	20.00
9803	16.00	25.00
9804	16.00	20.00
9805	15.00	20.00
9806	10.00	20.00
9151	20.00	25.00
9152	20.00	20.00
9153	16.00	25.00
9154	16.00	20.00
9155	15.00	20.00
9200	15.00	24.00
9250	40.00	64.00
9251	40.00	64.00











REZNOR® VELOCITY BOILER WORKS RUUD

Heater	Page
• Duct Furnace	598
• Unit Heater	600
• Hydronic Unit Heater	601
Furnace	
• Direct Vent Wall Furnace	601
Boiler	
• Cast Iron Boiler, Natural Draft, Gas	602-603
• Cast Iron Boiler, Natural Draft, Oil	603-604
• Condensing Boiler	604-605

Water Heater	Page
• Water Heater	606-607
• Tankless Water Heater	608-609
• Tankless Water Heater Accessories	609-611
Heat Recovery	
• Heat Recovery	611

DUCT FURNACE



X75SI

INDOOR, GRAVITY VENT, GAS, SPARK IGNITION

Designed for 80% thermal efficiency; for indoor application with gravity venting. Used as heating components in heating, heating/cooling, or makeup air systems and require a separate blower system for air delivery.

Furnace has an aluminized steel heat exchanger with venturi-design tubes. Burners are of aluminized steel and include flared ports with a stainless steel insert.

- Supply voltage: 115 Vac
- Control voltage: 24 Vac
- Transformer included

REZNOR

			Flue		Dimensions (In.)			
Part No.	Input (BTUH)	CFM	Size (In.)	Type	H	W	L	Ship Wgt (Lbs.)
X75SI	75000	610 to 1105	5	Round	32.25	19.25	26.00	160.00
X100SI	100000	815 to 1475	6	Round	32.25	19.25	26.00	170.00
X125SI	125000	1020 to 1840	7	Oval	32.25	22.00	26.00	200.00
X150SI	150000	1225 to 2210	8	Oval	32.25	27.50	26.00	220.00
X175SI	175000	1430 to 2580	8	Oval	32.25	27.50	26.00	230.00
X200SI	200000	1635 to 2945	8	Round	35.25	33.00	26.00	275.00
X225SI	225000	1840 to 3315	8	Round	35.25	33.00	26.00	290.00
X250SI	250000	2045 to 3685	10	Oval	35.25	41.25	26.00	350.00
X300SI	300000	2455 to 4420	10	Oval	35.25	41.25	26.00	360.00
X350SI	350000	2865 to 5160	12	Oval	35.25	46.75	26.00	390.00
X400SI	400000	3275 to 5895	12	Oval	35.25	52.25	26.00	420.00

UNIT HEATER



UDXC30

UDXC UNIVERSAL, GAS-FIRED UNIT HEATER

The UDXC universal unit heater also offers a two-tone, scratch-resistant paint, clean rounded corners and edges, and hidden screws and fasteners. The modern design and sleek appearance make them suitable for both industrial and residential environments.

- Direct replacement of UDX and UDZ allows streamlined end use and inventory management
- All sizes are certified for industrial/commercial use. Models 55, 85, 110 are certified for residential applications such as workshops and garages
- Two-tone, scratch-resistant paint; clean, rounded corners and edges; hidden screws and fasteners provide a modern, stylish appearance
- Reznor Robust ™ design including TCORE2® titanium stabilized, aluminized steel heat exchanger

REZNOR

				Dimensions (In.)			
Part No.	Input (BTUH)	CFM	Supply Voltage	H	W	L	Ship Wgt (Lbs.)
UDXC30	30000	456	115	13.75	29.75	27.00	63.00
UDXC45	45000	629	115	13.75	29.75	27.00	68.00
UDXC60	60000	769	115	16.75	32.71	27.00	76.00
UDXC75	75000	961	115	16.75	32.00	27.00	81.00
UDXC100	105000	1345	115	34.75	34.29	27.00	120.00
UDXC125	120000	1537	115	34.75	34.29	27.00	125.00
UDXC150	150000	1921	115	20.13	48.44	38.20	206.00
UDXC175	175000	2242	115	20.13	48.44	38.20	221.00
UDXC200	200000	2562	115	20.13	48.44	38.20	221.00
UDXC225	225000	2882	115	26.13	48.44	38.20	247.00
UDXC250	250000	3202	115	26.13	48.44	38.20	259.00
UDXC300	300000	3843	115	34.13	48.91	41.00	323.00
UDXC350	350000	4483	115	34.13	48.91	41.00	348.00
UDXC400	400000	5123	115	34.13	48.91	41.00	360.00



EUH3

EUH COMMERCIAL AND INDUSTRIAL UNIT HEATER, 1 OR 3 PHASE

The EUH series covers 3-30 kW commercial and industrial unit heating needs. The appearance is as attractive as it is durable and hangs with supplied wall hanger or via 2 downrods (field supplied). Available in common voltage and in mutli-voltage units to simplify use and selection.

- Covers common voltage: 208V/1 or 3 phase, 240V/1 or 3 phase, and 480V/3 phase.
- Range of 8 models covering 3-30 kW
- Multi-voltage units are standard and reduce skus and simplify selection
- Enhanced safety with air-flow proving safety switch provided standard
- High temperature limit safety switch with automatic reset
- Easily direct air with Individually adjustable louvers

REZNOR

			Dimensions (In.)			
Part No.	Input (BTUH)	CFM	H	W	L	Ship Wgt (Lbs.)
EUH3	10236	125 to 431	15.25	27.97	23.34	63.00
EUH5	17060	158 to 479	15.25	27.97	23.34	64.00
EUH7	23884	296 to 740	15.25	27.97	23.34	65.00
EUH10	34121	191 to 957	15.25	27.97	23.34	67.00
EUH15	51182	263 to 1215	21.13	33.41	28.17	100.00
EUH20	68242	357 to 1290	21.13	33.41	28.17	110.00



UEZ130

UEZ HIGH EFFICIENCY CONDENSING UNIT HEATERS

UEZ condensing unit heaters also improve space conditions and cleanliness due to the separated combustion design. These units use outside air for combustion to prevent dirt, lint, dust, or other contaminants in the indoor atmosphere from being burned. And with the lowest clearances in the industry, Model UEZ high efficiency condensing unit heaters are easy to service, maintain, and install.

- Up to 93% efficiency
- TCORE3™ 409 stainless steel primary heat exchanger (sizes 130 to 310)
- MacroChannel® design on the secondary heat exchanger for easier maintenance
- Sealed control compartment houses all electrical components
- External status indicating LED that blinks if there is a problem that needs service

REZNOR

				Dimensions (In.)			
Part No.	Input (BTUH)	CFM	Supply Voltage	H	W	L	Ship Wgt (Lbs.)
UEZ130	131000	2256	115	26.13	55.41	39.19	255.00
UEZ180	175000	2458	115	26.13	55.41	39.19	270.00
UEZ260	260000	4430	115	34.13	58.00	41.00	385.00
UEZ310	305000	4283	115	34.13	58.00	41.00	420.00



RIHN30

SURFACE COMBUSTION, GAS FIRED, HIGH INTENSITY

- 115 volt operation
- Direct spark ignition, 100% safety shut-off
- Solenoid gas valve, 1/2" NPT inlet
- Ceramic combustion surface temperature up to 1850°F, capable of reaching full intensity temperature in less than 30 seconds
- Balanced suspension holes, 3/8" diameter

REZNOR

			Dimensions (In.)			
Part No.	Input (BTUH)	Supply Voltage	H	W	L	Ship Wgt (Lbs.)
RIHN30	30000	115	8.50	18.38	16.63	23.00
RIHN60	60000	115	8.50	18.38	16.63	30.00
RIHVL90	90000	115	8.50	18.38	25.25	42.00
RIHVN100	100000	115	8.50	18.38	25.25	42.00
RIHVN200	200000	115	8.50	18.38	42.50	55.00

UNIT HEATER


VPS60AA1AK1

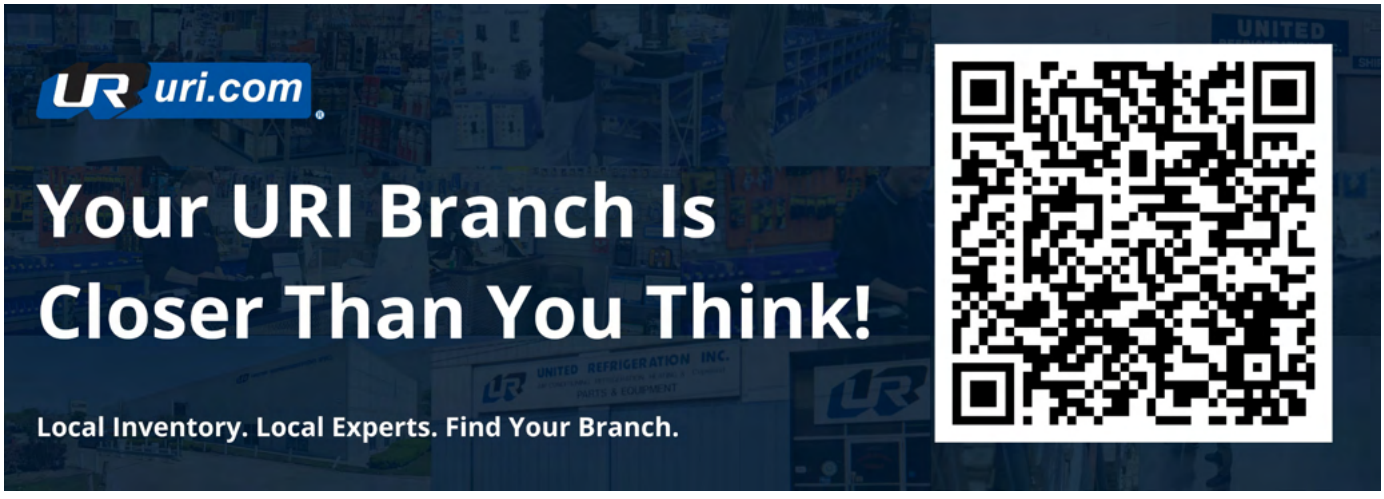
GAS-FIRED TUBULAR RADIANT, LOW INTENSITY HEATER FOR INDOOR COMMERCIAL-INDUSTRIAL USE

The VP series of tubular radiant heaters are available in BTUH inputs ranging from 60,000 to 200,000 and in system lengths from 20 to 80 feet. Heaters are available for use with natural gas or optional propane gas. Tubular radiant heaters are engineered to provide quiet, reliable, energy-efficient, comfort level heating for both spot and space applications.

- Natural gas operation
- Full input rate for elevations up to 2,000 ft.
- 115/1/60 supply voltage
- Multi-try direct ignition with soft lockout
- Single-stage combination gas valve (Model VPS)
- Two-stage combination gas valve (Model VPT)
- Pre-purge and post-purge
- Diagnostic indicator lights (ignition circuit board)
- Operation indicator lights - Red light - power on - One amber light - burner on (Model VPS) - Two amber lights - burner on hi/lo (Model VPT)
- Calcoat combustion chamber and rolled steel heat exchanger tubes (10 ft. length)

REZNOR®

				Dimensions (In.)			
Part No.	Input (BTUH)	Input Range	Supply Voltage	H	W	L	Ship Wgt (Lbs.)
VPS60AA1AK1	60000	45000 to 60000	115	15.50	10.25	20.00	29.00
VPS80AA1AK1	80000	60000 to 80000	115	15.50	10.25	20.00	29.00
VPS100AA1AK1	100000	65000 to 100000	115	15.50	10.25	20.00	29.00
VPS125AA1AK1	125000	95000 to 125000	115	15.50	10.25	20.00	29.00
VPS150AA1AK1	150000	100000 to 150000	115	15.50	10.25	20.00	29.00
VPS170AA1AK1	170000	125000 to 170000	115	15.50	10.25	20.00	29.00
VPS200AA1AK1	200000	150000 to 200000	115	15.50	10.25	20.00	29.00
VPT60AA1AK1	60000	45000 to 60000	115	15.50	10.25	20.00	34.00
VPT80AA1AK1	80000	60000 to 80000	115	15.50	10.25	20.00	34.00
VPT100AA1AK1	100000	65000 to 100000	115	15.50	10.25	20.00	34.00
VPT125AA1AK1	125000	95000 to 125000	115	15.50	10.25	20.00	34.00
VPT150AA1AK1	150000	100000 to 150000	115	15.50	10.25	20.00	34.00
VPT170AA1AK1	170000	125000 to 170000	115	15.50	10.25	20.00	34.00
VPT200AA1AK1	200000	150000 to 200000	115	15.50	10.25	20.00	34.00
VPT100AA2AK1	100000	65000 to 100000	115	15.50	10.25	20.00	34.00



HYDRONIC UNIT HEATER



WS1824

WS UNIT HEATER

- Heat exchanger composed of 0.030" thick, 0.867" O.D copper tubes and aluminum fins spaced approximately 10-1/2 fins per inch
- Painted copper tubing heat exchanger and aluminum fins
- Factory installed for steam and hot water source
- Vertical or horizontal configuration
- Maximum heating capacity based on steam pressure at 2 psi, 60°F entering air.

REZNOR

						Dimensions (In.)			
Part No.	Capacity (BTUH)	CFM	FPM	Voltage	Amps	H	W	L	Ship Wgt (Lbs.)
WS1824	24000	400	540	115	0.61	16.44	18.31	16.44	38.00
WS2333	33000	500	672	115	0.91	16.44	18.31	16.44	44.00
WS4462	62000	860	802	115	1.30	18.57	18.31	18.56	49.00
WS6085	85000	1250	860	115	1.10	20.69	18.31	20.69	55.00
WS78110	110000	1650	866	115	3.10	22.81	18.31	22.81	66.00
WS96120	120000	1550	642	115	1.90	24.94	19.19	24.94	75.00
WS140175	175000	2300	773	115	2.70	27.17	19.19	27.17	88.00
WS190238	238000	2850	793	115	3.50	29.19	20.19	29.19	101.00
WS300350	350000	4750	936	115	13.10	35.44	22.63	35.44	146.00

DIRECT VENT WALL FURNACE


DV210SG-NAT

COMPACT

Clean and cost-efficient comfort make the DV210 and DV215 the perfect heaters to warm your smaller rooms. The slim, compact design allows the heater to tuck out of the way on an outside wall.

Quiet burners, a "matchless" piezo ignition, and all the safety features you expect from Empire Comfort Systems come standard. Optional automatic blowers install easily for more even heat distribution. Ideal for bedrooms or studies, wall furnaces add comfort and beauty to any decor

EMPIRE Heating Systems

				Dimensions (In.)			
Part No.	Gas	Input (BTUH)	CFM	H	W	D	Ship Wgt (Lbs.)
DV210SG-NAT*	NATURAL	10000	60	21.38	16.25	9.38	42.00
DV210SG-LP*	PROPANE	10000	60	21.38	16.25	9.38	42.00
DV215SG-NAT*	NATURAL	15000	60	24.88	20.25	9.38	60.00


DV25SG-NAT

STANDARD

EMPIRE Heating Systems

				Dimensions (In.)			
Part No.	Gas	Input (BTUH)	CFM	H	W	D	Ship Wgt (Lbs.)
DV25SG-NAT*	NATURAL	25000	75	27.75	37.00	11.50	98.00
DV25SG-LP*	PROPANE	25000	75	27.75	37.00	11.50	98.00
DV35SG-NAT*	NATURAL	35000	75	27.75	37.00	11.50	101.00
DV35SG-LP*	PROPANE	35000	75	27.75	37.00	11.50	101.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CAST IRON BOILER, NATURAL DRAFT, GAS


AWR038BL

ARUBA 5, GAS-FIRED HOT WATER

- Cast iron heat exchanger
- Boiler easily field convertible to left side piping
- Built-in rear draft diverter to fit low spaces
- Limited lifetime warranty
- LWCO standard equipment

				Dimensions (In.)				
Part No.	Input (BTUH)	Net AHRI Water Capacity (BTUH)	Heating Efficiency DOE (AFUE) Standard	H	W	L	Vent Diameter (In.)	Ship Wgt (Lbs.)
AWR038BL	38000	28000	84.0	39.50	31.50	9.75	4	234.00
AWR038BN	38000	28000	84.0	39.50	31.50	9.75	4	234.00
AWR070BL	70000	51000	84.0	39.50	31.50	12.88	4	284.00
AWR070BN	70000	51000	84.0	39.50	31.50	12.88	4	284.00
AWR105BL	105000	77000	84.0	39.50	31.50	15.38	5	334.00
AWR105BN	105000	77000	84.0	39.50	31.50	15.38	5	334.00
AWR140BL	140000	102000	84.0	39.50	31.50	18.50	6	384.00
AWR140BN	140000	102000	84.0	39.50	31.50	18.50	6	384.00
AWR175BL	175000	127000	84.0	39.50	31.75	21.50	7	434.00
AWR175BN	175000	127000	84.0	39.50	31.75	21.50	7	434.00
AWR210BL	210000	153000	84.0	39.50	33.50	24.63	7	484.00
AWR210BN	210000	153000	84.0	39.50	33.50	24.63	7	484.00
AWR245BL	245000	178000	84.0	39.50	33.50	27.63	8	533.00
AWR245BN	245000	178000	84.0	39.50	33.50	27.63	8	533.00
AWR280BL	280000	203000	84.0	39.50	33.50	30.75	8	583.00
AWR280BN	280000	203000	84.0	39.50	33.50	30.75	8	583.00


BWF070BN

BALI 2, GAS-FIRED HOT WATER

The Bali 2 Series (BWF) residential, cast iron, hot water boiler is a fully packaged, installer-ready product. An integral fan permits the venting directly through a wall. With the addition of an optional Direct Vent Kit it permits the option of using outside air for combustion. Comes with a Honeywell Integrated Boiler Control System that incorporates temperature control, circulator, fan, ignition functions, and a Low Water Cut-Off in a single module.

- Natural Gas Only
- Cast iron heat exchanger and stainless steel burners
- Integral fan for sidewall venting
- Limited lifetime warranty
- LWCO standard equipment
- Optional direct vent kit available
- Boiler easily field convertible to left side piping

				Dimensions (In.)				
Part No.	Input (BTUH)	Net AHRI Water Capacity (BTUH)	Heating Efficiency DOE (AFUE) Standard	H	W	L	Vent Diameter (In.)	Ship Wgt (Lbs.)
BWF070BN	70000	520000	85.0	37.75	12.75	25.50	2	250.00
BWF105BN	105000	78000	85.0	37.75	15.50	25.50	3	300.00
BWF140BN	140000	104000	85.0	37.75	18.50	25.50	4	350.00
BWF175BN	175000	130000	85.0	37.75	21.50	25.50	5	410.00
BWF210BN	210000	156000	85.0	37.75	24.75	25.50	6	460.00
BWF245BN	245000	181000	85.0	37.75	27.75	25.50	7	510.00


PHNTM210

CONDENSING BOILER, GAS-FIRED, HOT WATER, PHANTOM-X

The Phantom-X has a modulating burner with a 10:1 turndown ratio and supports multiple boiler lead/lag for up to 8 boilers. Smart boiler features, like domestic priority with priority protection, warm weather shutdown, freeze protection, and pump exercise, make the Phantom-X an excellent option for both residential and commercial applications.

- Stainless steel water tube heat exchanger
- 95% AFUE for residential models
- Outdoor reset with included sensor
- Multiple boilet lead/lag - Up to 8 boilers
- Intuitive, text based menus
- Honeywell control with LCD touch screen user interface
- Vent options allows for CPVC/PVC, single wall polypropylene or stainless steel venting
- Stackable for floor space savings

			Dimensions (In.)			
Part No.	**Heating Capacity (BTUH)**	**Heating Efficiency DOE (AFUE) Standard**	**H**	**W**	**L**	**Ship Wgt (Lbs.)**
PHNTM210	194000	95.0	32.19	16.69	23.94	206.00
PHNTM285	262000	95.0	43.44	16.69	21.81	256.00
PHNTM399	375000	94.0	43.44	16.69	28.88	304.00
PHNTM500	475000	95.0	35.00	16.69	44.88	375.00


KSB100LC

KINGSTON, STEAM

The Kingston (KSB) Series boiler is an installer-ready, residential, cast-iron, oil-fired, steam boiler. The Kingston is designed for installation with a standard chimney. The Kingston is available in heating capacities from 79 to 230 MBH. This boiler is comes in a semi packaged version with the burner packaged separate from the boiler assembly, controls and trim.

- Efficiencies up to 86.4%
- Rugged wet base, cast iron heat exchanger
- Cast iron swing door with burner disconnect for easy service
- Optional side-mounted tankless coil for domestic hot water production
- Beckett AFG burner standard: Carlin and Riello burners optional on most sizes
- Near boiler piping kit available separately for ease of installation

Part No.	**Output I=B=R Hi (BTUH)**	**Input (GPH)**	**Heating Efficiency DOE (AFUE) Standard**	**Tankless Coil (GPM)**	**Comments**	**Ship Wgt (Lbs.)**
KSB100LC	9100	1.0	85.0	2.50	Less Coil	515.00
KSB100WC	9100	1.0	85.0	2.50	With Coil	515.00
KSB150LC	136000	1.5	85.1	3.00	Less Coil	635.00
KSB150WC	136000	1.5	85.1	3.00	With Coil	635.00
KSB200LC	173000	1.9	85.3	3.50	Less Coil	755.00
KSB200WC	173000	1.9	85.3	3.50	With Coil	755.00

CAST IRON BOILER, NATURAL DRAFT, OIL


TWB100LC

TOBAGO 2, HOT WATER

The Tobago (TWB) Series boiler is an installer-ready, residential, cast-iron, oil-fired, water boiler. The Tobago is designed for installation with a standard chimney and is available in heating capacities from 80 to 231 MBH. The boiler comes in semi-packaged version, with the burner packaged separate from the boiler assembly, controls and trim.

- Efficiencies up to 87.3%
- Rugged wet base, cast iron heat exchanger
- Cast iron swing door with burner disconnect for easy service
- Optional front-mounted tankless coil for domestic hot water supply
- Beckett AFG burner standard: Carlin and Riello burners optional on most sizes
- Limited lifetime warranty
- Hydrolevel Hydrostat with low water cut off

Part No.	Output I=B=R Hi (BTUH)	Input (GPH)	Heating Efficiency DOE (AFUE) Standard	Tankless Coil (GPM)	Comments	Ship Wgt (Lbs.)
TWB100LC	106000	1.0	86.3	3.25	Less Coil	560.00
TWB100WC	106000	1.0	86.3	3.25	With Coil	560.00
TWB150LC	158000	1.5	86.0	4.00	Less Coil	680.00
TWB150WC	158000	1.5	86.0	4.00	With Coil	680.00
TWB200LC	201000	1.9	86.1	4.75	Less Coil	800.00
TWB200WC	201000	1.9	86.1	4.75	With Coil	800.00

CONDENSING BOILER


PHTM2136C

PHANTOM II COMBI

The Phantom II Combi is one of our newest products and the first to feature Phantom Adaptive Technology! This is a gas-fired, stainless steel, combi boiler with:

- Field Convertible to LP – No conversion kit required
- Rate-based temperature reset – No outdoor sensor required
- Simple start-up

It is an energy-efficient boiler with 95% AFUE that can not only heat a home, but also provide domestic hot water all from one boiler.

			Dimensions (In.)			
Part No.	Input (BTUH)	Heating Efficiency DOE (AFUE) Standard	H	W	L	Ship Wgt (Lbs.)
PHTM2136C	120000	95.0	29.80	17.80	16.30	112.00
PHTM2200C	150000	95.0	29.80	17.80	20.40	135.00


PHTM2120H

PHANTOM II

The Phantom II is one of our newest products, and features Phantom Adaptive Technology! This is a gas-fired, stainless steel, heat-only boiler with:

- Field Convertible to LP – No conversion kit required
- Rate-based temperature reset – No outdoor sensor required
- 95% AFUE
- Simple start-up

			Dimensions (In.)			
Part No.	Input (BTUH)	Heating Efficiency DOE (AFUE) Standard	H	W	L	Ship Wgt (Lbs.)
PHTM2120H	120000	95.0	29.80	17.80	16.30	112.00
PHTM2180H	180000	95.0	29.80	17.80	20.40	132.00


RPTR085HB

WALL MOUNTED CONDENSING BOILER, GAS-FIRED, FIRE TUBE, HIGH EFFICIENCY, RAPTOR

All Raptors include a user-friendly touch screen interface, 10-to-1 turndown ratio and an outdoor reset function to ensure top performance in response to demand and outdoor temperature changes.

- Up to 96% AFUE on select units
- 5-year parts warranty
- Natural or LP gas (field convertible)
- Field adjustable for high altitude
- Universal vent connection
- Outdoor reset and sensor
- Versatile top and bottom supply and return connections
- Easy Access control panel
- Split voltage junction box with fused connection boards
- LWCO ready with NPT connection
- Pre-installed hanging bracket and wall mount kit
- Sola Control System:
  - LCD touch screen display
  - Built-in self diagnostics
  - Three circulator outputs (Heat Only model)
  - Built-in sequencer stages up to 8 boilers
- RPTRC155 is a combi model featuring a thermostatic mixing valve and brazed plate heat exchanger

			Dimensions (In.)			
Part No.	**Heating Capacity (BTUH)**	**Heating Efficiency DOE (AFUE) Standard**	**H**	**W**	**L**	**Ship Wgt (Lbs.)**
RPTR085HB	79000	95.0	33.31	19.19	20.00	140.00
RPTR110HB	103000	96.0	33.31	19.19	20.00	145.00
RPTR155HB	145000	95.0	33.31	19.19	20.00	160.00
RPTR205HB	189000	95.0	33.31	19.19	21.00	185.00
RPTR270HB	252000	95.0	33.31	19.19	21.00	170.00



WATER HEATER


PRO+G7576NRU

HEAVY DUTY WATER GAS HEATERS

Professional Achiever Plus® Heavy Duty gas water heaters exceed ANSI standards for flammable vapor ignition resistance

- Recovery Capacity: 72.8 gallons per hour (delivers approximately 100 gallons of hot water in the first hour for 75-gallon models and 142 gallons for 98-gallon models)**
- Guardian System™ & Sensor: exclusive air/fuel shut-off device and maintenance free. Disables the heater in the presence of flammable vapor accumulation.
- Piezo Ignitor - no matches required
- Eco-friendly burner, low NOx design
- Premium grade anode rod provides long-lasting tank protection
- All models are certified for applications up to 8,500 feet above sea level
- Enhanced-flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant
- Side water connections for space heating applications

Part No.	Tank Capacity (Gal.)	Input (BTUH)	Style	Gas	Recovery rise to 100°F (GPH)	Height (In.)	Dia. (In.)	Ship Wgt (Lbs.)
PRO+G7576NRU	75	751000	Tall	NATURAL	72.8	64.00	26.25	320.00


PROE38S2RU95B

PROFESSIONAL ACHIEVER ELECTRIC WATER HEATERS

Professional Achiever® electric water heaters are engineered for longer life – resistored heating elements and premium grade anode rod.

- .93 UEF
- Isolated tank design reduces conductive heat loss
- Dual stainless steel upper and lower elements to prolong anode rod and tank life
- Recovery: 21 GPH at a 90° F rise
- Premium grade anode rod provides long-lasting tank protection
- Electric junction box located above heating elements for easy installation
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Ruudglas® tank lining resists corrosion and prolongs tank life
- EverKleen® self cleaning device fights harmful sediment build-up with a high-velocity spiraling water stream – helps operating efficiency by saving energy, money and improving tank life
- Enhanced-flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant

Part No.	Tank Capacity (Gal.)	Style	Recovery rise to 90°F (GPH)	Height (In.)	Dia. (In.)	Ship Wgt (Lbs.)
PROE38S2RU95B	38	Short	21.0	32.63	23.00	108.00
PROE40M2RU95	40	Medium	21.0	50.50	20.25	106.00
PROE50M2RU95	50	Medium	21.0	50.50	23.00	132.00
PROE50T2RU95	50	Tall	21.0	61.63	20.25	121.00


PROG40S38NRU62

ATMOSPHERIC WATER GAS HEATERS

Professional Classic Plus™ Atmospheric gas water heaters are engineered for more hot water at a low operating cost

- Eco-friendly burner, low NOx design
- Premium grade anode rod provides long-lasting tank protection
- All models certified up to 5,999 feet above sea level; some certified up to 10,000 feet. Consult factory for specifications
- Easy to light – no matches required EverKleen™ patented system fights sediment build-up
- Enhanced flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant
- Standard replacement parts

Part No.	Tank Capacity (Gal.)	Input (BTUH)	Style	Gas	Recovery rise to 90°F (GPH)	Height (In.)	Dia. (In.)	Ship Wgt (Lbs.)
PROG40S38NRU62	40	38000	Short	NATURAL	38.4	50.25	21.38	125.00
PROG4038NRU62	40	38000	Tall	NATURAL	38.4	61.50	19.00	127.00
PROG5038NRU60	50	38000	Tall	NATURAL	38.4	61.25	20.50	150.00


PROG4040NRU67PV

PROFESSIONAL ACHIEVER POWER VENT GAS WATER HEATERS

Professional Achiever Power Vent gas water heaters offer up to 150 foot vent runs, energy efficiency and the Guardian System

- Energy Star ® rated
- Self-Diagnostic System: Electronic gas control for improved monitoring and service
- Eco-friendly burner, low NOx design
- Uses indoor air for combustion; blower exhausts the flue gases
- Standard 120 VAC electrical connection
- New whisper quiet blower
- Long venting lengths up to 150 equivalent feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination
- Rheem exclusive R-Tech (resistored) anode rod provides long-lasting tank protection
- Tall models certified for applications up to 7,800 ft. above sea level and short models up to 6,000 feet above sea level
- Enhanced-flow brass drain valve

Part No.	Tank Capacity (Gal.)	Input (BTUH)	Style	Gas	Recovery rise to 90°F (GPH)	Height (In.)	Dia. (In.)	Ship Wgt (Lbs.)
PROG4040NRU67PV	40	40000	Tall	NATURAL	40.4	66.25	19.75	140.00
PROG5042NRU67PV	50	40000	Tall	NATURAL	42.4	65.50	21.75	170.00

TANKLESS WATER HEATER


RUTG70DVLN

STANDARD TANKLESS WATER HEATER, MID-EFFICIENCY

- .81 UEF
- With all -copper heat exchanger
- High-altitude capability – up to 8,400 ft. elevation above sea level
- Environmentally Friendly ultra low NOx burner meets SCAQMD rule 1146.2 requirements
- Water Savings Setting – upon activation, this setting can save homeowners up to 1,100 gallons of water per year by reducing flow at the tap unitl set temperature is achieved (optional)
- Low Flow Activation - Minimum flow rate of .26 GPM and minimum activation flow rate of .40 GPM ensures the user will receive hot water even in low demand situations
- EcoNet Enabled - all Tankless products from 2010 to present can connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH)

									Dimensions (In.)		
Part No.	Type	Gas	Voltage	Max. Flow Rate	Input (BTUH)	Capacity (GPM)	Temperature (°F)	Application	H	W	Ship Wgt (Lbs.)
RUTG70DVLN*	Indoor, Direct	NATURAL	120	0.26 GPM	11000-160000	6.4 Max	85 to 140	2-3 Bathrooms	25.63	13.88	54.00
RUTG84DVLN*	Indoor, Direct	NATURAL	120	0.26 GPM	11000-180000	8.4 Max	85 to 140	3 Bathrooms	25.63	13.88	54.00
RUTG84DVLP*	Indoor, Direct	PROPANE	120	0.26 GPM	11000-180000	8.4 Max	85 to 140	3 Bathrooms	25.63	13.88	54.00
RUTG84XLN*	Outdoor	NATURAL	120	0.26 GPM	11000-180000	8.4 Max	85 to 140	3 Bathrooms	23.63	13.88	54.00
RUTG84XLP*	Outdoor	PROPANE	120	0.26 GPM	11000-180000	8.4 Max	85 to 140	3 Bathrooms	23.63	13.88	54.00
RUTG95DVLN*	Indoor, Direct	NATURAL	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	3-4 Bathrooms	25.63	13.88	54.00
RUTG95DVLP*	Indoor, Direct	PROPANE	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	3-4 Bathrooms	25.63	13.88	54.00
RUTG95XLN*	Outdoor	NATURAL	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	3-4 Bathrooms	23.63	13.88	54.00
RUTG95XLP*	Outdoor	PROPANE	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	3-4 Bathrooms	23.63	13.88	54.00


RUTGH84DVLN

STANDARD TANKLESS WATER HEATER, HIGH-EFFICIENCY

- Up to .93 UEF
- With stainless steel condensing heat exchanger
- Ultra low NOx burner
- EcoNet Enabled - all Tankless products from 2010 to present can connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH)
- Industry Leading Low Flow Activation - Minimum flow rate of .26 GPM and minimum activation flow rate of .40 GPM ensures the user will receive hot water even in low demand situations
- Recirculation Pump Kit-Ready – Providing faster hot water at the tap and savings of up to 12,000 gallons water/year
- Hot Start Programming - Minimizes cold water bursts by staying in ready-fire state for back-to-back hot water needs
- 1,100 gallons of water per year by decreasing the flow of water through the pipes until the temperature reaches the heater's set temperature

									Dimensions (In.)		
Part No.	Type	Gas	Voltage	Max. Flow Rate	Input (BTUH)	Capacity (GPM)	Temperature (°F)	Application	H	W	Ship Wgt (Lbs.)
RUTGH84DVLN*	Indoor, Direct	NATURAL	120	0.26 GPM	11000-157000	8.4 Max	85 to 140	3 Bathrooms	27.50	18.50	82.00
RUTGH84DVLP*	Indoor, Direct	PROPANE	120	0.26 GPM	11000-157000	8.4 Max	85 to 140	3 Bathrooms	27.50	18.50	82.00
RUTGH95DVLN*	Indoor, Direct	NATURAL	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	4 Bathrooms	27.50	18.50	82.00
RUTGH95DVLP*	Indoor, Direct	PROPANE	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	4 Bathrooms	27.50	18.50	82.00
RUTGH95XLN*	Outdoor	NATURAL	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	4 Bathrooms	27.50	18.50	82.00
RUTGH95XLP*	Outdoor	PROPANE	120	0.26 GPM	11000-199900	9.5 Max	85 to 140	4 Bathrooms	27.50	18.50	82.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



RTEX8

PROFESSIONAL CLASSIC® TANKLESS ELECTRIC WATER HEATER

- On demand, consistent and continuous hot water
- Compact and stylish with digital temperature control in increments of 1° ranging from 80°F to 140°F*
- Robust copper immersion heating elements with brass top increases durability and are threaded for easy replacement
- Simple Installation
- Digital temperature display
- External controls to adjust temperature in increments of 1°
- 5-Year heating chamber and 1-year parts limited warranty

						Dimensions (In.)		
Part No.	kW Rating	Voltage	Max. Flow Rate	Capacity (GPM)	Amps	H	W	Ship Wgt (Lbs.)
RTEX8*	8.0	240	4.8 GPM	0.3-4.8	33.00	12.63	8.25	7.45
RTEX11*	11.0	240	4.8 GPM	0.3-4.8	46.00	12.63	8.25	8.80
RTEX13*	13.0	240	4.8 GPM	0.3-4.8	54.00	12.63	8.25	8.85
RTEX18*	18.0	240	7.0 GPM	0.3-7.0	75.00	18.25	14.50	15.80
RTEX24*	24.0	240	7.0 GPM	0.3-7.0	100.00	18.25	17.63	18.75
RTEX36*	36.0	240	8.0 GPM	0.3-8.0	150.00	18.25	21.63	25.75

TANKLESS WATER HEATER ACCESSORIES



UFHM07524HNA2PK

ACCESSORIES

OYH kits include

- Return Side: Manual flow control valve with manual stop, PT test plugs, S/S hose, MPT hose adapter
- Supply Side: Y Ball Valve/Strainer, PT test plugs, blow down drain valve, S/S hose, MPT hose adapter

		Dimensions (In.)	
Part No.	Description	D	Ship Wgt (Lbs.)
UFHM07524HNA2PK*	Hose 3/4" x 24" (2-pack)	28.00	2.00
UFHM07536HNA2PK*	Hose 3/4" x 36" (2 pack)	28.00	2.00
UFHM07548HNA2PK*	Hose 3/4" x 48" (2 pack)	28.00	2.00
UFHM10036HNA2PK*	Hose 1" x 36" (2 pack)	28.00	5.50
OYH075S24HNA*	Hose Kit (2) 3/4" x 24"	24.00	5.00
OYH075S36HNA*	Hose Kit (2) 3/4" x 36"	36.00	3.00
OYH100S36HNA*	Hose Kit (2) 1" x 36"	36.00	0.71

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TANKLESS WATER HEATER ACCESSORIES



SP20286

VENT KIT

Vent kits for Rheem tankless water heaters.

- 1 required on all installations

Part No.	Description	Application	Ship Wgt (Lbs.)
SP20286*	Termination Kit for 3" PVC	High Efficiency (RTGH)	1.40
RTG20210*	Termination Kit. Contains 94° elbow, long termination, (1) 12" wall plate and screws. For up to 10" walls. Can be extended.	Standard (RTG)	2.40
RTG20211*	Termination Kit. Contains storm collar, 6/12 to 12/12 pitched cone flashing, vertical termination with rain caps. Does not include vertical vent pipe.	Standard (RTG)	3.40
RTG20231*	Termination Kit for 2" x 4" wall. Can be extended.	Standard (RTG)	6.00
RTG20234*	Termination Kit for 2" x 6" wall. Can be extended.	Standard (RTG)	7.00



RTG20220AB

VALVE KIT

Vent kits for Rheem tankless water heaters.

- 1 required on all installations

Part No.	Description	Application	Ship Wgt (Lbs.)
RTG20220AB*	Service valve kits with pressure relief valve, lead free	Both (RTG/H)	3.85



RTG20040

CONTROLS, BOXES, FLUSH KIT

Part No.	Description	Application	Ship Wgt (Lbs.)
RTG20040*	EZ-Link™ Cable. Connect two tankless water heaters together in a manifold so that they communicate together and operate as a single unit.	Both (RTG/H)	1.00
RTG20213A*	Manifold Controller Kit. Mounts inside a single tankless unit and connects up to 5 additional units for a total of 6. Type Q cables necessary.	Both (RTG/H)	30.00
RTG20213B*	Control Cable, MIC-Q-1, 1 Ft.	Both (RTG/H), RTG20213A	0.05
RTG20213C*	Control Cable, MIC-Q-6, 6 Ft.	Both (RTG/H), RTG20213A	0.23
RTG20213D*	Control Cable, MIC-Q-18, 18 Ft.	Both (RTG/H), RTG20213A	0.61
RTG20006DW*	Self-diagnostic Main Remote Control (Included)	Both (RTG/H)	1.51
RTG20006DU*	Bath Remote Control	Both (RTG/H)	1.51
RTG20217XG*	Outdoor Pipe Cover	Standard (RTG)	1.51

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEAT RECOVERY


C1

AQUECOIL

- Designed to fit your air handler; ICP may also fit Carrier/BDP models, Thermal Zone may also fit newer Rheem/Ruud models
- Heavy duty cabinet made of rust-proof aluminum
- Baked enamel finish for a polished look
- Fully insulated with high R rigid foam
- Uses any hot water source with sufficient BTUH

Part No.	W (In.)	Nominal Tons	Use with	Ship Wgt (Lbs.)
C1	14.31	1.5, 2	ICP	18.00
C2	17.62	3	ICP	20.00
C3	21.12	3.5, 4	ICP	22.00
C-4	24.69	5	ICP	25.00
C-5	25.75	6	ICP	30.00
RH1	17.50	1.5, 2, 2.5, 3	Thermal Zone	20.00
RH2	21.00	3, 3.5, 4	Thermal Zone	22.00
RH3	24.50	4, 5	Thermal Zone	25.00


D2120A

HOT GAS TO WATER

Designed to recover heat removed by refrigeration or air conditioning systems and to utilize that heat for heating water. In doing so, they are desuperheaters which remove much of the heat from the hot gas discharged from the compressor with the standard condenser completing the condensing cycle. Fitted with two corrosion protection anodes. Unit is most efficient at mid-range of tonnage capacity (evaporator load tons). Most commonly seen in supermarket or other food processing applications. Tanks are tested at 300 psi and rated for 150 psi working pressure. Refrigeration circuits are rated for a maximum working pressure of 426 psi.

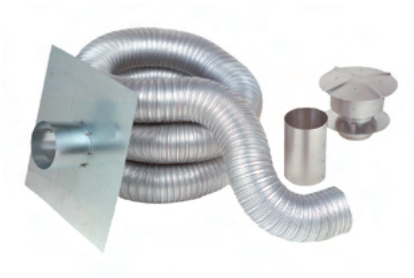
- Stainless steel outer jacket
- Recovery 25 ton input, 80°F rise = 112 GPH
  D2120A includes aquastat

Part No.	Nb. of Circuits	Per Circuit Capacity (Tons)	Tank Capacity (Gal.)	Height (In.)	Diameter (In.)	Ship Wgt (Lbs.)
D2120A[1]	2	3-15	120	62.00	29.50	430.00
DE120	2	3-15	120	24.00	29.50	430.00
DH120	2	7-35	120	62.00	29.50	430.00

[1] Includes aquastat.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NOTES






Air **Page**
- Venting Accessory 614-615
- Chimney Liner 615-616

Oil
- Oil Storage 617
- Oil Accessories 617
- Oil Burner 617-618
- Oil Burner Accessories 618-620
- Fuel Pump 620

Bracket
- Quick-Sling 621

Gas **Page**
- Gas Accessories 622

Water
- Shut Off 623
- Circulator Pump 624-627
- Centrifugal Pump 628
- Pump Accessories and Repair 629-631
- Hydronic Specialty 631-639
- Water Feeder 640
- Low Water Cut-Off 641

VENTING ACCESSORY



SWGII4HD

SWG POWER VENTER KIT FOR GAS FURNACES

Combines the motor, blower and vent hood in one complete, easy to install unit that significantly reduces motor noise.

- Designed for walls up to 8" thick
- Use with oil or gas furnaces, boilers and water heaters
- SWG4G is the universal 4" model

FIELD CONTROLS

Part No.	Vent Diameter (In.)	Includes	Description
SWGII4HD[1]	4	Unit vent	Power venter, 4" unit vent
SWG4G[1]	4	SWG-4HD Power Venter, CK-43F Control Kit, and Draft Control	Power venter, 4" unit vent, CSA certified for Inter City Products, control kit included
SWG5	5	Unit vent	Power venter, 5" unit vent
SWG6	6	Unit vent	Power venter, 6" unit vent

1 Universal Generic 4"



CK20

POWER VENTER CONTROL

Control kit for use with SWG power venter. Can also control draft inducers (Model DI) and combustion air systems (CAS 3 & 4).

FIELD CONTROLS

Part No.	Use with	Includes	Description
CK20	30/750mV Gas, Water-Spa Heaters	Gas Pressure Switch, Safety, Fixed Post Purge	Power venter control kit, usage: 30/750 mV gas, water-spa heaters
CK41F	24V Gas without Spillage Switch	Draft Proving Switch, Safety, Fixed Post Purge	Power venter control kit, usage: 24 Volt gas without spillage switch
CK43	24V Gas, Draft Induced	Draft Proving Switch, Draft Control, Fixed Post Purge	Power venter control kit, usage: 24 Volt gas, draft induced
CK91[1]	24V Gas, Draft Induced with 30mV Water Heater Co-Vent	Draft Proving Switch, Safety, Adj. Electronic Post Purge	Power venter control kit, usage: 24 Volt gas, draft induced with 30mV water heater co-vent
CK92F[1]	Gas Fired with 30mV Water Heater Co-Vent	Draft Proving Switch, Safety, Fixed Post Purge	Power venter control kit, usage: gas fired with 30mV water heater co-vent

1 Includes Gas Pressure Switch



CAS1

COMBUSTION AIR, DIRECT

The Field combustion air system (CAS) provides controlled amounts of outside air for proper combustion of oil heating appliances.

When to use:

- Too tight construction
- Provide source of fresh air for combustion
- Use with appliances up to 2 GPH
- Includes 4" intake air hood and vacuum relief valve

FIELD CONTROLS

Part No.	Use with	Description
CAS1	Beckett AFII, NX Riello 40BF	FAN IN A CAN
CAS2B	Beckett AF, AFG Burner	FAN IN A CAN



SWH14

VENT HOOD

Made of 24 gauge aluminized steel and can be used with natural gas, L.P. gas or fuel oil fired equipment. The concentric pipe, angled outlet deflectors and spaced plate design allow for better heat dissipation.

FIELD CONTROLS

Part No.	Use with
SWH14	Natural gas, LP gas or oil-fired equipment



DI1

DRAFT INDUCER

Use a draft inducer for:

- Long horizontal vent runs
- Undersized flue pipes
- Short chimneys
- Outside exposed chimney
- Negative building pressures

For venting a single appliance, a draft inducer proving switch (DIP-1) is recommended. For multiple appliances, a control kit is required for operation. See selection guide below.

FIELD CONTROLS

Part No.	Input Range	Description
DI1	69,000 to 136,000 BTUH	Draft inducer
DI2	279,000 to 430,000 BTUH	Draft inducer
DIP1	Proving Switch	Air Proving Switch for Draft Inducer


RC-5

BAROMETRIC DRAFT CONTROL

Maintain consistent draft by counteracting the negative forces caused by changes in temperature and barometric pressure, and the effects of wind.

- Use with oil or coal residential or commercial appliances
- Can use with pipe size within 1" of control size, designed for settings from .02" to .08"

FIELD CONTROLS

Part No.	Control Diameter (In.)	Description
RC-5	5	Barometric draft control, oil or coil, Recommended Pipe Sizes Circumference 12 1⁄2" to 19"
RC6	6	Barometric draft control, oil or coil, Recommended Pipe Sizes Circumference 15 3/4" to 22"
RC7	7	Barometric draft control, oil or coil, Recommended Pipe Sizes Circumference 19" to 25 1⁄4"
RC8	8	Barometric draft control, oil or coil, Recommended Pipe Sizes Circumference 22" to 28 1⁄8"


MG15

BAROMETRIC DRAFT CONTROL, GAS

A double-acting control for gas fired furnaces and boilers is widely used for conversion burner installations, gas draft-induced appliance operation with mechanical draft inducers or sidewall power venters, and forced draft burners greater than 30' stack height.

- Effectively use with pipe size within 1" of control diameter. Adjustments from .01" to .1"

FIELD CONTROLS

Part No.	Control Diameter (In.)	Description
MG15	5	Barometric draft control, gas, 5" diameter
MG16	6	MG1 DRAFT CONTROL DOUBLE ACTING FOR GAS APPLIANCES

CHIMNEY LINER

ALUMINUM KIT

Z-Flex's specially designed "deep corrugations" provide for greater flexibility and ease of installation. Patented triple-lock mechanical joint.


2GACKIT0325

ALUMINUM KIT

- For gas applications
- Includes: 2-ply aluminum liner, chimney flashing, rain cap, mortar collar, 3 screws

Z-FLEX

Part No.	Tube Diameter (In.)	Tube Length	Includes
2GACKIT0325	3	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0425	4	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0525	5	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT05.525	5 1/2	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0625	6	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0725	7	25'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0330	3	30'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0335	3	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0435	4	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0535	5	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT05.535	5 1/2	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0635	6	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws
2GACKIT0735	7	35'	2-Ply Aluminum Liner; Chimney Flashing; Rain Cap; Mortar Collar; 3 Screws

CHIMNEY LINER



2OILKTX0625

STAINLESS STEEL KIT

- For pellet, oil and gas applications
- Includes: stainless steel liner, chimney flashing, rain cap, mortar collar, top support

Part No.	Tube Diameter (In.)	Tube Length	Includes
2OILKTX0625	6	25′	Rain Cap; Flashing; Flexible Liner; Mortar Collar
2OILKTX0535	5	35′	Rain Cap; Flashing; Flexible Liner; Mortar Collar
2OILKTX0635	6	35′	Rain Cap; Flashing; Flexible Liner; Mortar Collar



2CNNBFC04

B-VENT CONNECTOR, ALUMINUM

- For gas applications
- Connects B-Vent to Z-Flex liner

Part No.	Tube Diameter (In.)	Description
2CNNBFC04	4	4″ Chimney Liner B-Vent Connector
2CNNBFC05	5	5″ Chimney Liner B-Vent Connector
2CNNBFC06	6	6″ Chimney Liner B-Vent Connector



2CNNTRG04

LINER COUPLING

- For gas applications
- Used to attach 2 lenghts of pipe

Part No.	Tube Diameter (In.)	Description
2CNNTRG04	4	4″ Aluminum Chimney Liner Connector
2CNNTRG05	5	5″ Aluminum Chimney Liner Connector

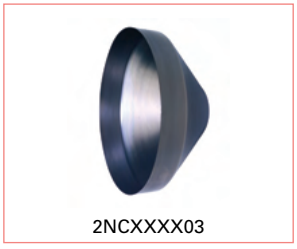


2GAEXT0610

LINER EXTENSION, ALUMINUM

Used to extend a Z-Flex aluminum liner kit an additional 10 feet. Kit includes:10 foot section of 2 ply aluminum liner, 2 gear clamps, 1 liner coupling

Part No.	Tube Diameter (In.)	Tube Length	Description	Includes
2GAEXT0610	3	10′	6″ Aluminum 2-Ply Extension Kit	10′ 2-Ply Liner; Coupling; Clamps



2NCXXXX03

NOSE CONE

Part No.	Tube Diameter (In.)	Description
2NCXXXX03	3	3″ Nose Cone Guide
2NCXXXX04	4	4″ Nose Cone Guide
2NCXXXX05	5	5″ Nose Cone Guide
2NCXXXX05.5	5 1/2	5 1/2″ Nose Cone Guide
2NCXXXX06	6	6″ Nose Cone Guide
2NCXXXX07	7	7″ Nose Cone Guide

OIL STORAGE


B-104-CFXL

FUSIBLE VALVE

Fusible valves are designed to automatically close when acted upon by heat of 165° F and are primarily manufactured for oil burner installations. All Firomatic fusible valves can be operated manually and may be used where fire protection is important.

Part No.	Description	Valve Usage (Series)
B-104-CFXL	Fusible Extra Long Angle	3/8 Flare x 1/4 MPT

OIL ACCESSORIES


1A25B

OIL FILTER SHELL

Fuel filter for oil fired heating appliances.

- Working pressure: 12 psi
- Connection size: 3/8" FPT

Part No.	Firing Rate (GPH)	Description
1A25B	10	Oil filter shell, 10 GPH max firing rate, 3/8" FPT
2A700A	25	Oil filter shell, 25 GPH max firing rate, 3/8" FPT


1A30

OIL FILTER CARTRIDGE

Part No.	Use with
1A30	General 1A-25A, Unifilter 77, Sears 8055, Sid Harvey XF-25/264, Autoflo F-300, Eddington S-254 and Federal A-77.
2A710	General 2A-700-A, Unifilter 99, Sid Harvey XF-1/265, Autoflo F-400 and Eddington S-252.
RF4	Fulflo B4, AS4, FB4

OIL BURNER


AF44

AIR TUBE, AF, AFG

Consult Beckett's cross-reference for proper application to specific model appliances.

Part No.	Tube Length	Burner Head	Description
AF44	4 1/2"	None	Air tube, less burner head, 4-1/2" L
AF44XN	4 1/2"	F3	Air tube, with F3 head, 4-1/2" L, 0.75 to 1.25 GPH firing rate
AF53	5 3/8"	None	Air tube, less burner head, 5-3/8" L
AF53XN	5 3/8"	F3	Air tube, with F3 head, 5-3/8" L, 0.75 to 1.25 GPH firing rate
AF65	6 5/8"	None	Air tube, less burner head, 6-5/8" L
AF65XR	6 5/8"	F0	Air tube, with F0 head, 6-5/8" L, 0.40 to 0.75 GPH firing rate
AF65XN	6 5/8"	F3	Air tube, with F3 head, 6-5/8" L, 0.75 to 1.25 GPH firing rate
AF65XP	6 5/8"	F22	Air tube, with F22 head, 6-5/8" L, 1.65 to 2.50 GPH firing rate
AF72	7 1/4"	None	Air tube, less burner head, 7-1/4" L
AF72XN	7 1/4"	F3	Air tube, with F3 head, 7-1/4" L, 0.75 to 1.25 GPH firing rate
AF90	9"	None	Air tube, less burner head, 9" L
AF90XN	9"	F3	Air tube, with F3 head, 9" L, 0.75 to 1.25 GPH firing rate
AF90XP	9"	F22	Air tube, with F22 head, 9" L, 1.65 to 2.50 GPH firing rate
AF104	10 1/2"	None	Air tube, less burner head, 10-1/2" L
AF104XN	10 1/2"	F3	Air tube, with F3 head, 10-1/2" L, 0.75 to 1.25 GPH firing rate
AF130XN	13"	F3	Air tube, with F3 head, 13" L, 0.75 to 1.25 GPH firing rate
AF130XP	13"	F22	Air tube, with F22 head, 13" L, 1.65 to 2.5 GPH firing rate
AF160XN	16"	F3	Air tube, with F3 head, 16" L, 0.75 to 1.25 GPH firing rate

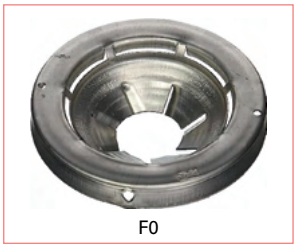
OIL BURNER

PEDESTAL KIT


5685

Part No.	Description
5685	Base Mount
5606	Extended Pedestal
5770	4 x 4 Mounting Box

BURNER HEAD


F0

Burner heads used with AF, AFG, SF and SR air tubes. Use B10 burner head with AFGMD air tube. Stainless steel heat shield; ceramic not included except where indicated. Refer to cross reference for specific replacement applications

Part No.	Use with
F0	AF,AFG,SF,SR
F4H	AF,AFG,SF,SR
F6	AF,AFG,SF,SR
F12H	AF,AFG,SF,SR
F22H	AF,AFG,SF,SR
F31H	AF,AFG,SF,SR
B10L1	AFG(M)
51615	F0 requiring ceramic
51360	F3 requiring ceramic

OIL BURNER ACCESSORIES

HAGO NOZZLE


H5060B

Part No.	Flow (GPH)	Spray Angle (Degree)
H5060B	0.5	60
H5080B	0.5	80
H5090A	0.5	90
H6060B	0.6	60
H6080B	0.6	80
H6545B	0.65	45
H6560A	0.65	60
H6560B	0.65	60
H6560W	0.65	60
H6580A	0.65	80
H6580B	0.65	80
H7080A	0.7	80
H7560A	0.75	60
H7560B	0.75	60
H7560W	0.75	60
H7580A	0.75	80
H7580B	0.75	80
H7580W	0.75	80
H8545B	0.85	45
H8560A	0.85	60
H8560B	0.85	60
H8560W	0.85	60
H8570A	0.85	70
H8580A	0.85	80
H8580B	0.85	80
H8580W	0.85	80
H9080B	0.9	80
H10045B	1.0	45
H10060A	1.0	60
H10060B	1.0	60
H10060W	1.0	60
H10080A	1.0	80
H10080B	1.0	80
H10090B	1.0	90
H11060A	1.1	60
H11060W	1.1	60
H11080A	1.1	80
H11080B	1.1	80
H11080W	1.1	80
H12080A	1.2	80
H12080B	1.2	80
H12560A	1.25	60
H12560B	1.25	60
H12560W	1.25	60

Continued on next page

Part No.	Flow (GPH)	Spray Angle (Degree)
H12580A	1.25	80
H12580B	1.25	80
H12580W	1.25	80
H13560B	1.35	60
H15080A	1.5	80
H15080B	1.5	80
H16580A	1.65	80
H17580A	1.75	80
H17580B	1.75	80
H20060A	2.0	60
H20060B	2.0	60
H20060W	2.0	60
H20080B	2.0	80
H22560A	2.25	60
H22560B	2.25	60
H22580A	2.25	80
H25060A	2.5	60
H25060B	2.5	60
H25060W	2.5	60
H25080A	2.5	80
H25080B	2.5	80
H25080W	2.5	80
H30060A	3.0	60
H30080A	3.0	80



A06SA6

IGNITION TRANSFORMER

- Universal gas and oil burner replacement units
- Iron core and electronic models
- Epoxy filled industrial models available
- 6, 8.5, 10, 12 and 14 kV models

DONGAN

Part No.	Description
A06SA6	Universal Industrial 6,000 V
A08SA1	Universal Industrial 8,500 V
A10LA22	120 Volt Primary, 10,000 Volt Secondary, 22 mA, 250 VA
A10S32	Lennox Replacement
A10SV10	10 kV Baseless Replacement Transformer
A10SV35	10 kV Baseless Replacement Transformer
LJH90A	10 kV Universal Replacement Transformer
XDBK103	Beckett A, AF OEM Replacement
XDWN202	Wayne M, MH OEM Replacement
XDWN208	Wayne E OEM Replacement
1092F	Ignition Transformer, Gas Applications, 120V
A10SF10	Ignition Transformer, 120V, 60Hz, Baseless
A10SQ182	Ignition Transformer, Baseless, 120V, 60Hz
A10SV351	Ignition Transformer, Baseless, 120V, 60Hz
XDDC212	OEM Replacement Ignition Transformer, 120V, 60Hz



4070B

NOZZLE

Hollow-cone Type A nozzles are mainly used on burners with a hollow cone air pattern and for through-puts up to 2 GPH. The droplet distribution is concentrated on the outside of the cone and results in good ignition and low-noise combustion. Solid-cone Type B nozzles produce a spray that distributes droplets fairly uniformly throughout the complete pattern. The spray pattern becomes progressively more hollow at higher flow rates, particularly above 8 GPH. Provides smooth ignition and efficient combustion, particularly in large burners. Type W all purpose nozzles are neither truly hollow nor solid. These nozzles frequently can be used in place of either solid or hollow cone nozzles between 0.40 and 8 GPH, regardless of the burner's air pattern. The lower flow rates tend to be more solid.

DELAVAN

	Delavan	Hago			
Part No.	Available Pattern (*)	Part No.	Available Pattern (*)	Flow (GPH)	Spray Angle (Degree)
4070B*	B			0.4	70
5590W*	W	H5590W	W	0.55	90
6545B*	B	H6545B	B	0.65	45
8545B*	B	H8545B	B	0.85	45
10030B*	B			1.0	30
10045B*	B	H10045B	B	1.0	45
13545A*	A			1.35	45
17530A*	A			1.75	30
20090A*	A			2.0	90
22545B*	B			2.25	45
22560B*	B	H22560(*)	A,B	2.25	60
30045A*	A			3.0	45
30090A*	A			3.0	90
35090A*	A			3.5	90
45090B*	B			4.5	90
50030A*	A			5.0	30
50060A*	A			5.0	60
60030W*	W			6.0	30
60060A*	A			6.0	60
60080A*	A			6.0	80
60090B*	B			6.0	90
80080A*	A			8.0	80
85080A*	A			8.5	80
120080A*	A			12.0	80
120090A*	A			12.0	90

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL BURNER ACCESSORIES



287371

NOZZLE ADAPTOR

Used as a coupling between the nozzle and the oil line from the pump. The Adaptrap is a nozzle adapter that helps prevent afterdrip, drooling during the off period. Helps eliminate erratic spray and flame flutter on burner shut-off.

- Dimension: 1 3/8"L x 1/8" FPT
- Brass construction

DELAVAN

Part No.	Description
287371*	Standard Adaptor



34478

NOZZLE WRENCH

- Passes through the small openings of the flame retention-disc. Just snap off the outer socket and use the inner socket alone to remove the nozzle.
- For wider openings, snap on the outer socket and use like a standard nozzle changer.

DELAVAN

Part No.	Description
34478*	2 in 1 Nozzle Changer



A1YA7912

SINGLE STAGE FLANGE MOUNT

- Single pipe installations to 6" Hg. vacuum
- Two-pipe installations to 12" Hg. vacuum
- Lift or gravity feed applications with 10 psi max. inlet/return pressure
- Suitable for No. 2, No. 1 fuel oil, or kerosene
- Mounting in any position
- Factory set at 100 psi
- Adjustable range 100-150 psi at 3450 rpm, 100-135 psi at 1725 rpm
- Rotation and port location as viewed from shaft end
- Strainer and nozzle rating: A1V, A2V series: 3 GPH 100 psi; A1Y series: 7 GPH 100 psi

SUNTEC

Part No.	RPM	Rotation	Nozzle Location
A1YA7912*	1725	CW	Right
A1YC7914*	1725	CCW	Left
A2VA7116*	3450	CW	Right





B1VA8212

TWO STAGE FLANGE MOUNT

- Two pipe installations up to 17" Hg. vacuum
- Lift or gravity feed applications with 10 psi max. inlet/return pressure
- Factory set at 100 psi
- Pressure adjustable from 100-150 psi at 3450 rpm, 100-135 psi at 1725 rpm
- Suitable for No. 2, No. 1 fuel oil, or kerosene
- Mounting in any position except upside down
- Rotation and port location as viewed from shaft end
- Strainer and nozzle rating: 3 GPH 100 psi

SUNTEC

Part No.	RPM	Rotation	Nozzle Location
B1VA8212*	1725	CW	Right

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

QUICK-SLING


QSWI1000

QUICK SWIVEL, U MOUNT, WITH H BRACKET

• The Quick Swivel provides you with a non-swinging, rotating platform that is quick, safe, stable and affordable. It can easily be installed in residential or commercial applications. Turn the Swivel in any direction you need, then lock it in place.
- The Quick Swivel is made with 14-gauge steel able to hold 200 lbs. The swivel allows for 360 degree rotation for setting the perfect direction of air flow.
- Each arm attaches to wood using 2 zip screws for stability and a 4" through bolt and wing nut for security. It can also be installed to steel using the steel beam adapters.
- Extension arms individually adjust in 1" increments using thumb screws and wing nuts for speed and versatility. This U mount installs as high as 19.5" or as low as 27.5" on flat or pitched roofs.
- 12 points of anti-vibration isolation is provided along with 3 hitch pins for the H bracket. This adds to the safety and sturdiness of the Quick Swivel.
- Installation can be accomplished in minutes because all necessary hardware is provided.
- Use with Reznor UDAP30, UDAS30

QUICK-SLING

Part No.	Description
QSWI1000	Swivel "U" Mount, with H Bracket, 200 Lbs Max Hold


QSWI3000

FLUSH MOUNT SWIVEL WITH H BRACKET

• The Quick Swivel provides you with a non-swinging, rotating platform that is quick, safe, stable and affordable. It can easily be installed in residential or commercial applications. Turn the Swivel in any direction you need, then lock it in place.
- Made with 14-gauge steel able to hold 200 lbs. The swivel allows for 360 degree rotation for setting the perfect direction of air flow.
- The flush mount hanger is slotted to receive a 3/8 lag bolt 16" or 24" on center. It can be attached parallel or perpendicular to the joist.
- The square steel tubing cuts down on vibration while 3 hitch-pins add to the safety and sturdiness of the Quick Swivel with H bracket.
- Installation can be accomplished in minutes because all necessary hardware is provided.
- Use with Reznor UDAP30?125, UDAS30?125

QUICK-SLING

Part No.	Description
QSWI3000	Flush Mount Swivel, with H Bracket, 200 Lbs Max Hold



GAS ACCESSORIES


30313212

CONNECTION 1/2" MPT X 1/2" FPT

WATTS

Part No.	Connection Size (In.)	Robert Part No
30313212	1/2 MPT X 1/2 FPT	S7812H
30313218	1/2 MPT X 1/2 FPT	S7818H
30313224	1/2 MPT X 1/2 FPT	S7824H
30313236	1/2 MPT X 1/2 FPT	S7836H
30313248	1/2 MPT X 1/2 FPT	S7848H


20313518

CONNECTION 1/2" MPT X 1/2" FPT BALL VALVE

WATTS

Part No.	Connection Size (In.)	Robert Part No
20313518	1/2 MPT X 1/2 FPT	S1218V1
20313524	1/2 MPT X 1/2 FPT	S1224V1
20313530	1/2 MPT X 1/2 FPT	S1230V1
20313536	1/2 MPT X 1/2 FPT	S1236V1
20313548	1/2 MPT X 1/2 FPT	S1248V1
30313524	1/2 MPT X 1/2 FPT	S7824R5


30313112

CONNECTION 1/2" MPT X 1/2" MPT

WATTS

Part No.	Connection Size (In.)	Robert Part No
30313112	1/2 MPT X 1/2 MPT	S7812I
30313118	1/2 MPT X 1/2 MPT	S7818I
30313124	1/2 MPT X 1/2 MPT	S7824I
30313130	1/2 MPT X 1/2 MPT	S7830I
30313136	1/2 MPT X 1/2 MPT	S7836I
30313148	1/2 MPT X 1/2 MPT	S7848I
30313160	1/2 MPT X 1/2 MPT	S7860I


30314224

CONNECTION 1/2" MPT X 3/4" FPT

WATTS

Part No.	Connection Size (In.)	Robert Part No
30314224	1/2 MPT x 3/4 FPT	S7824E
30314236	1/2 MPT x 3/4 FPT	S7836E
30314248	1/2 MPT x 3/4 FPT	S7848E


30424212

CONNECTION 3/4" FPT X 3/4" FPT

WATTS

Part No.	Connection Size (In.)	Robert Part No
30424212	3/4 FPT x 3/4 FPT	S7812B
30424218	3/4 FPT x 3/4 FPT	S7818B
30424224	3/4 FPT x 3/4 FPT	S7824B
30424230	3/4 FPT x 3/4 FPT	S7830B
30424236	3/4 FPT x 3/4 FPT	S7836B
30424248	3/4 FPT x 3/4 FPT	S7848B
30424260	3/4 FPT x 3/4 FPT	S7860B


GC38

GAS COCK

MUELLER INDUSTRIES

Part No.	Connection Size (In.)
GC38	3/8 FPT
GC12	1/2 FPT
GC34	3/4 FPT
GC38X12	3/8 MFL x 1/2 FPT
GC12X12	1/2 MFL x 1/2 FPT
GC38X38	3/8 MFL

SHUT OFF


12FBVSE

BALL, FULL PORT, PACKING GLAND, SWEAT

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)
12FBVSE	1/2	0.34
34FBVSE	3/4	0.66
1FBVSE	1	1.06
114FBVSE	1 1/4	1.51
112FBVSE	1 1/2	2.34
2FBVSE	2	3.65
212FBVSE	2 1/2	6.49
3FBVSE	3	8.71
4FBVSE	4	16.75


14FBVE

BALL, FULL PORT, PACKING GLAND, FPT

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)
14FBVE	1/4	0.28
38FBVE	3/8	0.29
12FBVE	1/2	0.45
34FBVE	3/4	0.66
1FBVE	1	1.10
114FBVE	1 1/4	1.63
112FBVE	1 1/2	2.39
2FBVE	2	3.56
212FBVE	2 1/2	6.49
3FBVE	3	9.03
4FBVE	4	16.17


889823

EXTENSION HANDLE

Stem extensions compatible with FBVE series

Part No.	Size (In.)	Ship Wgt (Lbs.)
889823	1/2 - 3/4	0.17
889825	1 - 1 1/4	0.19
889827	1 1/2 - 2	0.23
889829	2 1/2 - 4	0.47


12S29

GATE, SWEAT

For general service on water, steam, oil or compressed gas.

- Threaded bonnet
- Nonrising stem
- Bronze body: 125 WSP/200 WOG

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	OD (In.)
12S29	1/2	0.57	5/8
34S29	3/4	0.82	7/8
1S29	1	1.14	1 1/8
114S29	1 1/4	2.00	1 3/8
112S29	1 1/2	2.15	1 5/8
2S29	2	3.35	2 1/8


12T29

GATE, FPT

For general service on water, steam, oil or compressed gas.

- Threaded bonnet
- Nonrising stem
- Bronze body: 125 WSP/200 WOG

Part No.	Ship Wgt (Lbs.)
12T29	0.54
34T29	0.58
1T29	1.18
114T29	2.00


72612

STOP AND WASTE, SWEAT

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	OD (In.)
72612	1/2	0.50	5/8
72634	3/4	0.30	7/8

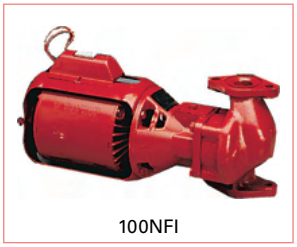

7412

BOILER DRAIN

- MPT x male hose thread

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)
7412	1/2	0.40
7434	3/4	0.43

CIRCULATOR PUMP


100NFI

100 SERIES BOOSTER

The industry standard for hydronic heating systems. Specifically designed to be easily serviced in the field with replaceable motor, bearing assembly, coupler, seal and impeller. Both the motor and the sleeve bearing frame are lubricated with oil.

- Maximum working pressure: 125 psi
- Maximum operating temperature: 225°F continuous

Bell & Gossett

	Construction			Cutoff					
Part No.	Body	Impeller	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Performance Chart Code	Length (In.)	Ship Wgt (Lbs.)
100NFI	Cast Iron	Nonferrous	1/12	33.0	8	225	A	14.88	20.40
106197	Bronze	Nonferrous	1/12	33.0	8	225	A	14.88	20.45
106192	Bronze	Brass	1/12	33.0	8	225	A	14.88	20.55
102210[1]	Cast Iron	Nonferrous	1/6	40.0	12	225	B	15.38	29.05
102213[1]	Bronze	Nonferrous	1/6	40.0	12	225	B	15.38	30.00

[1] HV Series Pumps


102214

HIGH GPM RESIDENTIAL

Residential pumps with large volute for higher flow capacities.

Bell & Gossett

	Construction			Cutoff				
Part No.	Body	Impeller	HP	GPM	Head (Ft.)	Performance Chart Code	Length (In.)	Ship Wgt (Lbs.)
102214	Cast Iron	Non-ferrous	1/6	75.0	10	C	16.63	37.58


LR20

COMPACT, OIL LUBRICATED

Unique design fills the void where wet rotor circulators may not be applicable and the standard three-piece booster pump is too large.

- Impeller is glass filled
- Maximum working pressure: 125 psi
- Maximum operating temperature: 225°F

Bell & Gossett

	Construction			Cutoff					
Part No.	Body	Impeller	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Performance Chart Code	Length (In.)	Ship Wgt (Lbs.)
LR20	Cast Iron	Noryl	1/20	20.0	12	225	D	6.94	9.85
LR15B	Bronze	Noryl	1/12	25.0	14	225	E	7.94	8.80


NRF22

COMPACT, WET ROTOR

A residential or light commercial, maintenance free, axial flanged, in-line, cast iron, wet rotor circulation pump for hydronic heating systems.

- Impeller is 30% glass filled
- Maximum working pressure: 150 psi

Bell & Gossett®

		Construction				Cutoff				
Part No.	No. of Speeds	Body	Impeller	HP	Watts	GPM	Maximum Tempera-ture (°F)	Performance Chart Code	Length (In.)	Ship Wgt (Lbs.)
NRF22	1	Cast Iron	30% Glass Filled Noryl	1/25	92	22.0	240	F	6.19	6.80
NRF25	3	Cast Iron	30% Glass Filled Noryl	1/15	125	24.5	225	H	6.19	9.32
NRF33	1	Cast Iron	30% Glass Filled Noryl	1/15	125	37.0	225	G	5.56	10.40


1BL012

COMPACT, SERIES PL™

- Powerful, dry-motor design delivers exceptional performance
- XL-11™ Precision-Crafted Bearing System
- Permanently oil lubricated
- Completely maintenance free
- Advanced close-coupled design increases pump life and efficiency, assures dependable seasonal start-ups and can easily handle difficult water conditions
- Tough, durable seal system features a carbon/silicon carbide seal on a stainless steel shaft sleeve for long life and rugged operation
- Maximum working pressure: 150 psi
- Maximum operating temperature: 225°F
- Body construction: cast iron
- Impeller construction: 30% glass filled Noryl®
- 1BL034 (PL-75) has a 4-bolt hole flange connection, all others have a 2-bolt hole flange connection

Bell & Gossett®

	Construction			Cutoff				
Part No.	Body	Impeller	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
1BL012*	Cast Iron	30% glass filled Noryl®	1/12	30.0	25	225	8.63	11.60
1BL001*	Cast Iron	30% glass filled Noryl®	1/6	40.0	38	225	8.63	13.00
1BL002*	Cast Iron	30% glass filled Noryl®	1/6	48.0	30	225	9.13	14.50
1BL034*	Cast Iron	30% glass filled Noryl®	1/6	70.0	15	225	9.94	18.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CIRCULATOR PUMP



ALPHA1555F

ALPHA SERIES

With the Grundfos ALPHA, you can stop worrying about complicated pump settings. Simply install the pump and leave it on the factory setting AUTOADAPT. The ALPHA will automatically analyze the heating system, find the optimum setting and continue to adjust its operation to changes in demand. With its permanent magnet motor design, this energy efficient circulator will reduce power consumption up to 80%. Ensuring lowest possible energy consumption without sacrificing comfort.
The Grundfos ALPHA is designed for circulating liquids in light commercial and residential heating systems.

- Compact permanent magnet maintenance-free wet rotor technology
- Nut capture flanges
- Available with integrated terminal box or line cord option
- Simple one button hydraulic selection
- 7 hydraulic selections available: 3 fixed speeds options, 3 constant pressure options, AutoAdapt
- Real time LED display: Watts indicator, GPM flow estimation indicator, Hydraulic mode selection
- Metallurgical options: Cast-iron, Stainless steel
- Integrated check valve

GRUNDFOS

	Construction		Cutoff				
Part No.	Body	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
ALPHA1555F	Cast Iron	1/12	21.0	18	230	6.50	7.20



UPS1558FC

3-SPEED, "SUPER BRUTE"

- Eliminates More Than a Dozen Competitive Models
- 3 Speed Motor Technology
- Reduces Noise and Power Consumption
- Unique "Removable" Integrated Check Valve, Minimal Flow Restriction
- Highest Performance and Torque of any Standard Wet Rotor Circulator
- Zone valve close off reliability can be significantly improved
- Prevents thermo-siphoning
- Allows for minimal system flow
- Provides flexibility in installations
- Eliminates the expense for an inline check valve
- Ideal for Zoning

GRUNDFOS

	Construction		Cutoff				
Part No.	Body	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
UPS1558FC	Cast Iron	1/25	17.0	19	230	5.25	7.25
UPS2699FC	Cast Iron	1/6	33.0	29	230	5.25	10.30



007E

ECM HIGH EFFICIENCY CIRCULATOR

- High-efficiency wet rotor circulator with an ECM permanent magnet motor, uses up to 85% less electricity
- Ideal for hydronic systems zoned with circulators or zone valves
- BIO Barrier® protects pump from system contaminants
- SureStart™ automatically frees locked rotor condition and self-purges air from pump
- Integral Flow Check (IFC®) included
- Optional 2-way flange model reduces SKU's and provides universal fit-up to any flange position
- Use with a Taco ZVC Zone Valve Control or SR Switching Relay for ON/OFF operation
- Dual electrical knockouts, 6" stranded wire leads included for easy wiring
- Double insulated. No ground wire required
- Whisper quiet operation

Taco

	Cutoff				
Part No.	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
007E*	16.0	10	230	6.00	6.00
0015E	16.0	5, 10, 18	230	6.00	5.80

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


007F

CARTRIDGE STYLE

Designed for use in hydronic heating, chilled fresh water systems, and domestic water systems. The unique replaceable cartridge contains all the moving parts and allows the circulator to be serviced instead of replacing the entire unit. Self-lubricating, contains no mechanical seal, and requires no maintenance.

- Construction: Cast iron body with a nonmetalic impeller
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 240°F

		Cutoff				
Part No.	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
007F	1/25	20.0	11	240	6.44	7.45


0013

CARTRIDGE STYLE , HIGH VELOCITY

Designed for high head / high flow applications in large residential and light commercial systems. Ideal for high pressure drop boilers, fan coil units, heat exchangers, larger radiant systems, heat recovery and geothermal systems.
The exclusive ACB (Anti-Condensate Baffle)anti-condensate baffle with ambient air flow prevents the build up of condensate on the motor windings when pumping chilled water. Its unique field-serviceable cartridge contains all moving parts and allows for easy service instead of replacing the entire circulator. With no mechanical seal, the self-lubricating, maintenance free design provides unmatched reliability.

- Max. working pressure: 150 psi
- Max. fluid temperature: 230°F
- Cast iron construction

		Cutoff				
Part No.	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
0013	1/6	33.0	33	230	7.50	12.15


00RMSF1IFC

CARTRIDGE STYLE, RADIANT, 3-SPEED

Specifically designed for the flow and head requirements of today's radiant heat systems. Its 3-Speed switching capability provides fine tuning control to match a wide combination of tube diameters and length of runs. The 00R 3-Speed Radiant pump is a direct replacement for the Grundfos UPS 15-58 3-Speed.

- Fine tune to system requirements
- Highest performance and starting torque in class
- Removable high-flow Integral Flow Check (IFC®)
  Prevents gravity flow
  Reduces installation costs
  Improves pump performance
- Replaceable cartridge design
- Self lubricating, no mechanical seal
- Cast Iron
- Maximum working pressure: 125 psi
- Maximum fluid temperature: 230°F

		Cutoff				
Part No.	HP	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Ship Wgt (Lbs.)
00RMSF1IFC	1/20	18.0	21	230	6.50	7.06

CENTRIFUGAL PUMP


3902B1

CLOSE COUPLED

Closed-coupled, end suction design offers the advantages of space saving and lower cost due to elimination of the need for a base plate, bearing frame, special coupling and guard. Standard NEMA pump motors are used throughout. Tangential discharge and back pull out design are featured.

- Maximum fluid temperature: 180°F continuous 211°F intermittent
- Maximum working pressure: 125 psi
- Construction: cast iron volute, brass impeller

			Connection Size (In.)		Dimensions (In.)			
Part No.	HP	Voltage	Suction	Discharge	H	W	L	Ship Wgt (Lbs.)
3902B1	1/3	115	1 1/4	1	8.75	8.38	14.06	39.00
3903B1	1/2	115	1 1/4	1	8.75	8.38	14.44	39.00
3903B3	1/2	115	1 1/4	1	8.75	8.38	14.44	38.00
3905B1	1	115	1 1/2	1 1/4	8.75	8.38	15.88	49.00
3906B1	1 1/2	115	1 1/2	1 1/4	8.75	8.38	16.88	54.00
3907B1	2	115	2	1 1/2	9.00	9.25	17.06	63.00
3908B1	3	115	2	1 1/2	9.00	9.25	18.06	78.00


3902BP

VOLUTE ONLY

Replacement pump ends; no motor supplied. Use pump chart if proper HP motor is applied.

- Construction: cast iron volute, brass impeller

	Connection Size (In.)		Dimensions (In.)		
Part No.	Suction	Discharge	H	W	Ship Wgt (Lbs.)
3902BP	1 1/4	1	8.75	8.38	25.00
3903BP	1 1/4	1	8.75	8.38	25.00
3905BP	1 1/2	1 1/4	8.75	8.38	28.00
3906BP	1 1/2	1 1/4	8.75	8.38	28.00
3907BP	2	1 1/2	9.00	9.25	35.00
3908BP	2	1 1/2	9.00	9.25	35.00
3909BP	2	1 1/2	9.19	12.13	43.00
3910BP	2	1 1/2	9.19	12.13	43.00

PUMP ACCESSORIES AND REPAIR

COUPLER



118705

Bell & Gossett

Part No.	Description	Use with
118705	Coupler 1/2" x 1/2", spring type, cast	Series 100, HV, 2", PR, 1", 1 1/4", 1 1/2", 2"
118473	Coupler 1/2" x 1/2", spring type, cast	PD-35, PD-37, 60 "AA", 1522, MF 60 with 51/4" and 61/4" impellers
118708	Coupler 3/4" x 5/8", spring type, cast	PD-35, PD-37, 60 "AA"
118709	Coupler 5/8" x 1/2", spring type, cast	PD-35, PD-37, 60 "AA", 1522
186410	Coupler 5/8" x 1/2", spring type, cast	PD-38, PD-39, PD-40, 60"A"
118723	Coupler 1/2" x 1/2", spring type, cast	21/2", LD-3, HD-3, HLD-3, HHD-3

BEARING



118844

Bell & Gossett

Part No.	Description	Use with
118844	Bearing assembly	Series 100, cast iron
185260	Bearing assembly, bronze fitted only	PD-38, PD-39, PD-40, 60"A"
185332	Bearing assembly	MF60 [5 1/4, 6 1/4" impellers]
186863	Bearing assembly	PD-35,PD-37, 60"AA", 1522, , bronze fitted or all bronze
189034	Bearing assembly	Series 100, , bronze fitted
189105	Bearing assembly	PR, 2 1/2", LD-3, HD-3
189134	Bearing assembly	Series 100, cast iron, [includes NFI imperller]
189162	Bearing assembly	1", 1 1/4", 1 1/2" [old models]
189163	Bearing assembly	1 1/2", 2", HV [old models], , cast iron with bronze impeller
189165	Bearing assembly	HV, 2" [new], 1 1/2" [old], cast iron or bronze

IMPELLER

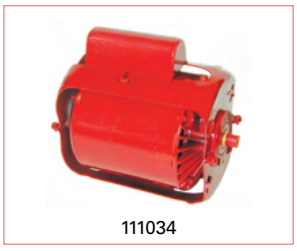


118431

Bell & Gossett

Part No.	Description	Use with
118431	Impeller, 2.75" diameter, brass	Series 100
118435	Impeller, 3.31" diameter, brass	1 1/4", 1 1/2" [old]
118436	Impeller, 3.375" diameter, brass	HV, 1 1/4", 1 1/2", 2"[old]
118612	Impeller, 4.25" diameter, brass	PR
118668	Impeller, 3 375" diameter, steel	HV, 2" [old]
118675	Impeller, 4.25" diameter, steel	HD-3
118629	Impeller, 5.25" diameter, steel	Series 60
189128	Impeller, 3.375" diameter, NFI	HV, 2"
189132	Impeller, 2.75" diameter, NFI	Series 100

MOTOR

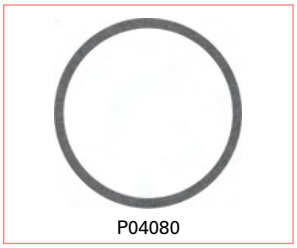


111034

Bell & Gossett

						Shaft (In.)	
Part No.	HP	Volt-age	RPM	Rotation	No. of Speeds	Diame-ter	Length
111034	1/12	115	1725	CCWOSE	1	1/2	1/2
111061	1/6	115	1725	CCWOSE	1	1/2	1/2
111031	1/6	115	1725	CCWOSE	1	1/2	1/2
111040	1/4	115	1725	CCWOSE	1	1/2	1/2
111042	1/3	115	1725	CCWOSE	1	1/2	1/2

PUMP ACCESSORIES AND REPAIR



P04080

GASKET-SEAL KIT

Pumps that use 1/2" seal include Series 100, HV, 2", PR, 2 1/2", LD-3, HD-3, PD-35, PD-37,60"AA", 1522, 1", 1 1/4",1 1/2", 2"

Bell & Gossett

Part No.	Description	Use with
P04080	Body Gasket, 2 3/4"ID x 3"OD	Series 100
P04890	Body Gasket, 3 1/2"ID x 3 3/4"OD	(B&G)1", 1 1/4", 1 1/2", 2", HV[old and new]
P05800	Body Gasket, 4 1/4"ID x 4 3/4"OD	2 1/2", LD-3,HD-3,PR
P48690	Body gasket	80, 1510, 1531
P57410	Body Gasket, 5 1/4"ID x 5 1/2"OD	PD-35,PD-37,60"AA", 1522, MF60(5 1/4, 6 1/4" impellers)
P57700	Body Gasket, 7 5/64"ID x 7 27/32"OD	60"A"
P58542	Adapter Ring Gasket	Series 60
118129	Flange gasket set	2 1/2", LD-3,HD-3,PD-35,PD-37,PD-38,PD-40,PD-39,MF60 3 x 5 1/4, PL130
118351	Flange gasket set	Series 100 [obsolete], 1"
118368	Flange gasket set	Series 100, LR, PL30,PL36,PR, 60AA 1, 1 1/4", PL55, 1 1/4"
118373	Flange gasket set	PL45,PL50,HV[new and old],1 1/2", 60A 1 1/2", 60AA 1 1/2"
118378	Flange gasket set	2", 60 AA, 60 A, MF60, PL-75, PL-130
118680	Seal kit less seat insert	1/2" seal pumps
118681	Seal kit 7	1/2" seal pumps
186681	Seal kit 6	All S/H 2-5 Series Pumps
186499	Seal kit	PD-38,PD-39,PD-40, 60"A", 60 2 1/2F



PCV100

CHECK VALVE

resideo

Part No.	Size (In.)	Cutoff GPM	Use with
PCV100	1	34.0	PC3F1558IUF00/U, PCG100/U



110251

FLANGE

Cast iron flange - use with Taco circulators and competing models with 2 5/8" bolt centers.

Taco

Part No.	FPT (In.)
110251	3/4
110252	1
110253	1 1/4
110254	1 1/2



34FLG

FLANGE, SERIES 100

Flanges for use with Bell & Gossett and competing booster pumps with 2 5/8" bolt centers.

- Shipped 2 to a package with bolts and nuts
- 34B and 1B are bronze flanges

Bell & Gossett

Part No.	FPT (In.)
34FLG	3/4
34BFLANG	3/4
1FLG	1
1BFLG	1
114FLG	1 1/4
112FLG	1 1/2



1HVFLG

FLANGE, HV SERIES

Bell & Gossett

Part No.	FPT (In.)
1HVFLG	1
114HVFLG	1 1/4


41413W

THE ISOLATOR® WITH ROTATING FLANGE AND MULTI-FUNCTION DRAIN

Full port forged brass uni-flange ball valve with detachable rotating flange, multi-function drain, adjustable packing gland, nuts and bolts

360° flange rotation and the capability to purge from either side of the pump. Install these valves at any degree of rotation necessary for your specifi c installation.

- Unique uni-body design is preserved
- Fully removable outer flange secured by snap ring
- Multi-function drain
- 3-Way valve purges before or after the pump
- 600 WOG, ISO 9001

Webstone VALVE INNOVATION

	Connection	
Part No.	Size (In.)	Type
41413W	3/4	FPT
51413W	3/4	Sweat


40403W

THE ISOLATOR® UNI-FLANGE BALL VALVE

Full port forged brass ball valve with adjustable packing gland, bonus wing style “T” handle, nuts and bolts

- Unique uni-body design
- Blowout proof stem
- Adjustable packing gland
- Conical inlet to minimize turbulence
- Slotted holes for high velocity pumps
- Fits virtually every circulator pump
- 600 WOG, ISO 9001

Webstone VALVE INNOVATION

	Connection	
Part No.	Size (In.)	Type
40403W	3/4	FPT
40404W	1	FPT
40405W	1 1/4	FPT
50403W	3/4	Sweat
50404W	1	Sweat
50405W	1 1/4	Sweat

HYDRONIC SPECIALTY


15T

EXPANSION TANK

A diaphragm-type expansion tank that is pre-pressurized with a standard charge of 12 psi. Welded-steel construction and its diaphragm is a rugged, flexible, long-life material that keeps system water and air separate.

- Fill-Trol tank accepts automatic fill/pressure reducing check valve 109076
- Install into T or air purging device
- Maximum working pressure: 100 psi
- Maximum temperature: 240°F
- System capacity at 30 psi relief, 40-70°F fill temperature, 12 psi fill pressure
- Connection: 1/2” MPT
- Tank air charge is adjustable

WATTS

				Connection			
Part No.	Type	Tank - Accep-tance Volume (Gal.)	System Capacity (Gal.)	Size (In.)	Type	Height (In.)	Ship Wgt (Lbs.)
15T	Extrol	2.0/1.0	29	1/2	MPT	8.40	5.00
109133	Fill-trol	2.0/1.0	29	1/2	MPT	12.63	5.00
30T	Extrol	4.4/2.5	64	1/2	MPT	16.60	9.00
110002	Fill-trol	4.4/2.5	64	1/2	MPT	15.50	9.00
60T	Extrol	7.6/2.5	87	1/2	MPT	23.00	10.85


109076

FILL-TROL® VALVE

Use with 100000 Series Fill-trol tank to provide pressure reducing automatic system fill to tank charge. With tank, regulates water expansion and minimum system pressure. Check valve prevents backflow.

AMTROL

Part No.	Description	Height (In.)	Ship Wgt (Lbs.)
109076	Fill-Trol® Valve	2.20	0.78


109P11/4

FILL-TROL PACKAGE

Combination package includes Fill-trol tank and valve, air purger and automatic air vent model 700C.

AMTROL

Part No.	Tank Model	Purger model	Line Size (In.)	Ship Wgt (Lbs.)
109P11/4	109133	444PV	1 1/4	10.00
110P11/4	110002	444PV	1 1/4	12.75

HYDRONIC SPECIALTY


41672W

EXPANSION TANK PRO SERVICE VALVE™

Full port forged brass ball valve with hi-flow hose drain. Designed for residential or light commercial use with water or oil. Allows for isolation and draining of an expansion tank in a closed loop hydronic heating system. It is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends.

	Connection		
Part No.	Size (In.)	Type	Ship Wgt (Lbs.)
41672W	1/2	FIP x MIP x FIP x Hose	0.87


50443WPR

THE ISOLATOR® E-X-P SERVICE VALVE, LEAD FREE

Tankless water heater service valve kit that includes hot and cold set of full port forged brass ball valves with hi-flow drains, pressure relieft valve outlet (150 PSI / 200,000 btu) and adjustable packing gland. This kit is compatible with all tankless water heaters that have 3/4" NPT hot/cold water outlets.

- Lead free
- 304 Stainless steel wing handle for easy actuation of the main ball
- Color coded insulator rings for easy identification of hot and cold valves
- Aluminum handle for easy actuaion of the drain ball

	Connection	
Part No.	Size (In.)	Type
50443WPR	3/4	IPS Union x SWT


44043PR

THE ISOLATOR® E-X-P E2™ SERVICE VALVE, LEAD FREE

Compact version of the original E-X-P.

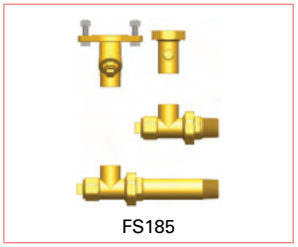
Tankless water heater service valve kit that includes hot and cold set of full port forged brass ball valves with hi-flow drains, pressure relieft valve outlet and adjustable packing gland. This kit is compatible with all tankless water heaters that have 3/4" NPT hot/cold water outlets.

Kit includes:

- Residential presure relief valve (150 PSI / 200,000 btu)
- Hot water valve, red: 3/4" IPS Valve x 3/4" IPS Union x 3/4" Hose Drain Valve x 3/4" IPS Outlet for pressure relief valve (hose drain cap included)
- Cold water valve, blue: 3/4" IPS Valve x 3/4" IPS Union x 3/4" hose drain valve (hose drain cap included)

44043PR and 4443WPR have a lead free cleanbrass construction.

	Connection	
Part No.	Size (In.)	Type
44043PR	3/4	IPS Union x IPS
44443WPR	3/4	IPS Union x IPS


FS185

HYDRO-CORE NEAR BOILER COMPONENT KIT

Includes:

- Connection fittings (2)
- Rotating flange "Y" strainer (1)
- Union connection with 1/4" plugged NPT gauge port
- Requires matching Hydro-Core manifold
- FS Series: floor standing, side mount kit
- FT Series: floor standing, top mount kit

	Connection	
Part No.	Size (In.)	Type
FS185	1 1/4	MIP
FT144	1	FIP
FT344	1	FIP



TK30PV100FM

BOILER TRIM PACKAGE

Combo welded tank kit, equipped with butyl diaphragms to separate the air from the system water. Pre-pressurized at 12 psi, the tank keeps fluids circulating and maintains minimum system pressure. Honeywell tanks resist waterlogging, loss of pressure through relief valve spills, loss of BTUs and reduce circulator running time. Use the super efficient Honeywell SuperVent or air vents to remove air and micro-bubbles from the system for maximum performance.

The Honeywell expansion tank maintains pressure in the system and utilizes the smallest possible space.

- Includes: welded diaphragm tank (TK300-30), SuperVent air and micro-bubble eliminator, and 1/2" boiler fill valve/backflow assembly (FM911).
- Maximum temperature: 240°F
- Maximum working pressure: 100 psi

resideo

Part No.	Tank Model	Purger model	Line Size (In.)	Ship Wgt (Lbs.)
TK30PV100FM	TK300-30	PV100	1	16.90
TK30PV125FM	TK300-30	PV125	1 1/4	18.00


AP400

AIR PURGE VALVE

- Tapped 1/8" for automatic air vent and 1/2" for expansion tank

resideo

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)
AP400	1	4.60
AP401	1 1/4	4.10
AP402	1 1/2	8.40


AS1

AIR SCOOP

Provides complete, continuous purging and venting of air in the hot water heating system when installed in conjunction with any 1/2" outlet tank and 1/8 MPT float vent.

- Maximum pressure: 125 psi
- Maximum temperature: 275°F
- Connection: FPT inlet/outlet, 1/8" FPT for float vent and 1/2" FPT for expansion tank

WATTS

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)
AS1	1	4.00
AS114	1 1/4	2.00


113055

AIR VENT, MANUAL

Manual air vent with coin/screwdriver actuating slot.

- Maximum working pressure: 150 psig
- Maximum operating temperature: 240°F
- Low profile

Bell & Gossett

	Connection		
Part No.	**Size (In.)**	**Type**	**Height (In.)**
113055	1/8	MPT	0.50


113001

AIR VENT, AUTOMATIC

Vents air from closed heating systems.

- Maximum operating temperature: 240°F

Bell & Gossett

	Connection		
Part No.	**Size (In.)**	**Type**	**Height (In.)**
113001	1/8	FPT	2.30
113020	1/8	MPT	1.90
113021	1/2 FPT, 3/4 MPT	MPT/FPT	2.20


FV418

AIR VENT, AUTOMATIC

Provides automatic air venting for hot or cold water distribution systems. Purges air that may be in the water system.

- Float is high temperature-resistant polyethylene.
- Suitable for use with glycol systems
- Maximum working temperature: 240°F
- Minimum working pressure: 1.45 psi
- Maximum working pressure: 150 psi

WATTS

	Connection		
Part No.	**Size (In.)**	**Type**	**Height (In.)**
FV418	1/8	MPT	1.70
FV414	1/4	MPT	1.80

HYDRONIC SPECIALTY


374A3430

PRESSURE RELIEF VALVE, 174A SERIES

- For hot water heating and supply boilers
- Pressure protection only
- 174A: Bronze body construction resists corrosive water conditions
- 374A: Iron body with forged bronze inlet
- Connection: FPT x FPT

WATTS

	Connection				
Part No.	Size (In.)	Type	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)
374A3430	3/4	FPT x FPT	1.90	550000	0.50
174A1	1	FPT x FPT	5.75	1005000	2.20


740

PRESSURE RELIEF VALVE, 740 SERIES

- For hot water heating boiler pressure protection
- Expanded outlet drain
- Offers greater discharge capacity than comparable competitive models
- Pressure setting: 30 psi
- Iron body construction

WATTS

Part No.	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)
740	3.40	925000	1.86
7401	7.25	1300000	3.70
740114	4.70	2105000	5.19
740112	9.25	2900000	8.35
7402	11.63	5250000	16.00


F8234

SAFETY RELIEF VALVE

Compact and economical pressure only safety relief valves for use on hot water space heating boilers, water supply heaters and storage tanks.

Designed for use on hot water service only and are NOT to be used on steam. F-82: bronze body, silicone seat disc and stainless steel pressure springs. F-30: all brass body, brass internal parts, a silicone seat disc and a stainless steel pressure spring

- Listed by ASME
- Completely automatic and reseat after pressure relief
- Pressure setting: 30 psi

CASH ACME

	Connection				
Part No.	Size (In.)	Type	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)
F8234	3/4	FPT x FPT	5.19	717000	0.68
F30F	3/4	FPT x FPT	3.38	510000	0.38
F30M	3/4	MPT x FPT	3.38	510000	0.18


FV180

AIR VENT, AUTOMATIC

- MPT air vent for water systems
- Solid brass body and cover, high temperature polypropylene float
- Maximum operating pressure: 150 psi

resideo

	Connection		
Part No.	Size (In.)	Type	Height (In.)
FV180	1/8	MPT	2.00


PV075S

SUPERVENT™

Purges air through a no clog vent assembly that controls dirt and debris to minimize air vent fouling.

- 360 degree adjustable collar ring for installation flexibility.
- Stainless steel concentrator which eliminates gurgling noise.
- Bronze body for rigid construction.
- Max. operationg pressure: 125 psi

resideo

	Connection			
Part No.	Size (In.)	Type	Flow (Cv)	Height (In.)
PV075S	3/4	Sweat	13.0	1.00
PV100	1	FPT	22.0	2.90
PV100S	1	Sweat	22.0	1.00
PV125	1 1/4	FPT	38.0	2.00
PV125S	1 1/4 nom.	Sweat	38.0	0.00
PV150	1 1/2	FPT	50	0.00

Continued on next page

	Connection			
Part No.	Size (In.)	Type	Flow (Cv)	Height (In.)
PV200	2	FPT	95	1.00
PVU100	1	FPT	22.0	1.00


79

AIR VENT, LOW PRESSURE MAINS

- For use on hot or cold or glycol water mains and process applications with specific gravity greater than 0.7
- Tapped at top for 1/8" NPT safety drain connection for discharging moisture
- Removable top
- Built-in check valve
- 1/2" NPT female and 3/4" NPT male straight shank
- Maximum operating pressure 75 psig (5.2 bar)*
- Maximum hydrostatic pressure 200 psig (13.8 bar)
- Maximum temperature 250°F (121°C)

Hoffman SPECIALTY

	Connection	
Part No.	Size (In.)	Type
79	1/2F (3/4M)	FPT x MPT


FWL234

PRESSURE-ONLY RELIEF VALVE

Designed specifically for the protection of hot water supply systems where over-pressure conditions are likely to occur as a result of thermal expansion. The valve may be installed directly on the tank or in a tee and is appropriate for either side (hot or cold) of the water heater.

- Bronze body, brass and stainless steel internal parts, a silicone seat disc and a stainless steel pressure spring
- Listed by ASME
- Completely automatic and reseat after pressure relief
- Pressure setting: 125 psi

CASH ACME

	Connection				
Part No.	Size (In.)	Type	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)
FWL234	3/4	MPT x FPT	3.38	500000	0.36


40XL5

TEMPERATURE/PRESSURE RELIEF, 40 SERIES

For hot water supply tanks and heaters.

- Bronze body construction
- Tamper-resistant bonnet screws
- Connection: MPT inlet x FPT outlet
- Temperature setting: 210°F
- Pressure setting: 150 psi

WATTS

Part No.	Connection Size (In.)	Pressure Setting (psig)	Valve Height (In.)	Tank Insertion (In.)	Capacity AGA (Btuh)
40XL5	3/4	150	5 5/8	5	200000
40XL4	1	150	6 1/4	4	500000
3422	2 x 1 1/2	150	9 3/4	3	1150000


110121

ASME RELIEF VALVE

Designed to protect fired and unfired hot water pressure vessels against overpressure conditions. The diaphragm's oversized effective area generates a greater operating force which helps to overcome the effects of fouling. Valves feature a unique fail-safe disc with sufficient area to permit the valves to maintain their safety relief function in the event of a diaphragm rupture.

- Bronze construction
- Pressure setting: 30 psi

Bell & Gossett

	Connection			
Part No.	Size (In.)	Type	Height (In.)	Ship Wgt (Lbs.)
110121	3/4	FPT	2.80	1.23
110129	1	FPT	4.94	1.50


110199

REDUCING/RELIEF VALVE

Combination of reducing valve and relief valve. Set at 12 psig supply pressure and 30 psig relief.

- 110197 has fast fill feature
- Connection: 1/2" NPT

Bell & Gossett

	Composition					
Part No.	Relief	Reducer	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
110199	Iron	Brass	1/2 NPT	6.44	5.38	4.04
110197	Brass	Brass	1/2 NPT	6.44	5.38	3.75

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HYDRONIC SPECIALTY


1450F12

REGULATOR/RELIEF ASSEMBLY

- Used on boiler feed lines to provide make up water to the system
- Maximum pressure: 100 psi
- Maximum temperature: 212°F
- Regulator set: 15 psi
- Adjustment range: 10-25 psi
- Combines features of 1156F and rugged iron body diaphragm relief valve (set to 30 psi).

WATTS

	Connection				
Part No.	Nominal Size (In.)	Type	Length (In.)	Height (In.)	Adjustment Range (psi)
1450F12	1/2	FPT inlet x FPT outlet	6.50	5.38	10 - 25
S1450F	1/2	Solder Union inlet x FPT outlet	7.00	5.38	10 - 25


B38BG

PRESSURE REDUCING VALVE

Protects heating and plumbing systems against excessive line pressures. Equipped with low inlet pressure check valve and removable strainer.

- Maximum flow: 5 1/2 to 6 GPM 125 psig inlet
- Brass construction
- 110192 is fast fill

Bell & Gossett

	Connection					
Part No.	Size (In.)	Type	Pressure Setting (psig)	Adjust-able Range	Height (In.)	Ship Wgt (Lbs.)
B38BG	1/2	FPT	12	10 to 25	3.70	1.25
B38TU	1/2	FPT/ Sweat	12	10 to 25	4.81	2.50
B712BG	3/4	FPT	12	10 to 25	3.70	2.18
110194	1/2	FPT	45	25 to 60	3.50	2.00
110195	3/4	FPT	45	25 to 60	3.50	2.25
FB38	1/2	FNPT X FNPT	12	10 To 25	3.90	2.00


SB1156F12

FEED WATER REGULATOR

For use in commercial and residential hydronic heating systems to fill the boiler and piping system with water, and to maintain water pressure in the system at all times. It also provides make-up water to the system in the event of system leaks. Includes a tight seating check valve, purge lever for manual purging, and a stainless steel strainer. @

- Maximum Pressure: 100psi

WATTS

	Connection				
Part No.	Nominal Size (In.)	Type	Length (In.)	Height (In.)	Adjustment Range (psi)
SB1156F12	1/2	Solder Union inlet x FPT outlet	4.13	5.38	10 - 25


3L34

POPPET PRESSURE RELIEF

- Connection: MPT inlet x FPT outlet

WATTS

	Connection			
Part No.	Size (In.)	Type	Height (In.)	Ship Wgt (Lbs.)
3L34	3/4	MPT inlet x FPT outlet	3.50	0.60


LF25AUB12

PRESSURE REGULATOR/ BYPASS, LEAD FREE

For supply water pressures up to 300 lbs. Can be adjusted from 25 to 75 lbs. The standard setting is 50 lbs. The bypass feature incorporated into these valves accurately controls build-up of system pressure and thermal expansion by equalizing the system and supply pressure when relief setting is in excess of available supply main pressure.

- Maximum temperature: 160°F
- Bronze body
- Connection: FPT union inlet x FPT outlet
- LF prefix: lead free

WATTS

	Connection							
Part No.	Size (In.)	Type	Adjust-ment Range (psi)	Factory Set De-faults	Overall Length (In.)	Overall Height (In.)	Ship Wgt (Lbs.)
LF25AUB12	1/2	FPT union inlet x FPT outlet	25 - 75	50 psi	5.50	5 1/8	3.04
LF25AUB34	3/4	FPT union inlet x FPT outlet	25 - 75	50 psi	5.50	5 1/8	2.00



152A34

STEAM PRESSURE REGULATOR

For autoclaves, steam tables/irons, vulcanizers and single radiators.

- Iron body
- Initial pressures up to 200 psi
- Connection: FPT x FPT

WATTS

	Connection			
Part No.	Size (In.)	Type	Height (In.)	Pressure Range (psi)
152A34	3/4	FPT x FPT	8.63	3 to 15



FM911

BOILER FILL VALVE

Pressure regulating valve for automatic control of boiler feed water and other pressure reducing applications. Especially constructed for expansion tank mounting.

- Fast fill feature
- Built in check valve
- Connection Type: NPT
- Pipe Size: 1/2"
- Maximum Ambient Temperature: 212°F

resideo

Part No.	Length (In.)	Height (In.)	Pressure Range (psi)
FM911	9.00	4.00	4 to 60



BP900

BACKFLOW PREVENTER

A double check backflow preventer with an intermediate vacuum breaker designed to prevent the backflow of contaminated water into the potable water supply. Designed for the use on small supply lines, it protects against both backflow and back siphonage for continuous pressure applications.

It is ideal for boiler feed lines, livestock drinking fountains, trailer park water hook-ups, laboratory equipment and numerous other applications. Suitable for either cold or hot water service, the BP900 is designed for non-continuous backflow temperatures up to 250°F (121°C) and working supply pressures up to 175 psi (1207 kPa).

- All bronze casting with brass connection.
- All working parts are stainless steel
- Stainless steel screen to protect seals.
- Approved by A.S.S.E. Standard 1012.

resideo

Part No.	Connection Size (In.)	Length (In.)	Height (In.)
BP900	1/2	1.00	1.00



9DS12

BACKFLOW PREVENTER

A backflow preventer specially made for low flow supply lines. Its purpose is to prevent the flow of polluted water back into the safe drinking water supply. Particularly recommended for residential boiler feed lines to prevent backflow when supply pressure falls below heating system pressure. Suitable for use under continuous pressure.

- Suitable for either hot or cold water service
- Bronze body construction with stainless steel working parts
- Durable rubber diaphragm and disc
- Suitable for working supply pressures up to 175 psi
- Emergency backflow temperatures up to 250°F
- Minimum pressure required: 25 psi

WATTS

Part No.	Connection Size (In.)	Length (In.)
9DS12	1/2 S	2.53
9D12	1/2 FPT	2.53
9DS34	3/4 Sweat	2.75



404200

FLOAT AND THERMOSTATIC STEAM TRAPS, H SERIES

- Feature Universal 4 - port tappings, (2 inlets, 2 outlets) that provide versatility to allow easy piping and system monitoring
- Stainless steel internal components
- Resistant to water hammer and corrosion
- Below condensate level seat design prevents steam leakage
- Rugged thermostatic element eliminates air binding
- Maximum body design pressure: 250 psig
- Maximum operating pressure 175 psig
- Maximum temperature: 406°F

Bell & Gossett

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
404200	3/4	6.50	5.60	11.70
404220	1 1/4	6.50	5.60	11.70

HYDRONIC SPECIALTY


113075

VACUUM BREAKER

Designed to protect closed vessels and piping systems against collapse when the induced vacuum exceeds design conditions. When used on steam heating systems, the No. 26 vacuum breaker controls induced vacuum, permitting normal return of condensate to the boiler. Adjustable range: 1/4" to 20" (mercury).

- Maximum working pressure: 150 psig

Bell & Gossett

Part No.	Connection Size (In.)
113075	1/8


TB1

FLOW BALANCER

An indicating flow meter and balancing device for measuring and balancing hydronic circuits. Installed in each circuit of a system, it permits simple balancing to meet design flow conditions.

- Capacity: 2 to 10 GPM
- Working pressure: 125 psig
- Maximum operating temperature: 250°F

Bell & Gossett

	Connection		
Part No.	Size (In.)	Type	Length (In.)
TB1	1	FPT	9.25


SA114

FLOW CONTROL VALVE

For preventing gravity flow in forced hot water systems and to permit summer-winter operation of indirect water heaters.

Bell & Gossett

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
SA114	1 1/4	4.00	6.50	4.00
SA112	1 1/2	5.00	7.25	8.00
SA-2	2	6.88	7.50	12.00
A212	2 1/2	7.25	7.63	20.00


HT34

FLOW CONTROL VALVE, HYDROTROL™

Used to prevent over-heating of zones due to gravity flow in hydronic heating systems and will permit summer-winter operation of indirect water heater.

- Maximum working pressure: 150 psi
- Maximum operating temperature: 250°F
- Valve can be installed to discharge in any direction

Bell & Gossett

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)
HT34	3/4	3.00	3.19	1.40


0792037

VACUUM BREAKER, LEAD FREE

- Vacuum breakers are designed to protect against the back-siphonage of contaminated water into the potable water supply
- For health hazard cross-connections not subject to continous pressure
- Install 6" above highest downstream point of water
- Maximum temperature 180°F at 125 psi working pressure
- Connection: FPT x FPT
- Plain brass finish
- 079 are lead free

WATTS

Part No.	Connection Size (In.)
0792037	3/8
0792038	1/2


LF70A12

TEMPERING VALVE, LEAD FREE

Hot water extender tempering valves for residential installations, mixes cold and hot water to extend capacity of water heater, storage tanks and hot water boiler tankless heaters.

- Connection: solder
- Lead free
- Temperature: 120-160 °F

WATTS

Part No.	Connection Size Nominal (In.)	Length (In.)
LF70A12	1/2	3.75


AMX302T

DIRECTCONNECT™ THERMOSTATIC MIXING VALVE KIT

- Installs in as little as 15 minutes
- Excellent temperature stability and control
- Effectively minimizes scalding risk to building occupants
- Mixing valve and cold water tee both connect directly to water heater; flexible stainless steel connector joins the cold water tee directly to the cold inlet port of the mixing valve
- Fits virtually all water heaters up to 1" (all necessary adapters included)
- Constant water temperature under different operating conditions
- Proportional valve (control of hot and cold water)
- Flow reduction in seconds if cold water supply is interrupted
- Includes 3/4" ASSE 1017 mixing valve, 3/4" cold water tee, and 11" SS flex connector
- Temperature adjustable with easy "Push-Twist-Release" locking hand wheel design
- Operating temperature: 100° to 212°F (hot water inlet), 33° to 80°F (cold water inlet)
- Maximum pressure: 150 psi
- Valve capacity: 2.1 Cv

Honeywell Home

Part No.	Pipe Size (In.)	Length (In.)
AMX302T	1	1.00


200034F

2-WAY FLOW CHECK

For forced hot water heating systems to provide positive gravity shut-off when circulator is not running.
One connection can be used for the installation of an expansion tank when installed at angle check.

- Maximum pressure: 50 psi
- Connection: FPT

WATTS

Part No.	Connection Size Nominal (In.)	Ship Wgt (Lbs.)
200034F	3/4	3.00
20001F	1	3.00
2000114F	1 1/4	4.98


0009864

DIELECTRIC UNION, LEAD FREE

Supplied with GA gaskets suitable for water, air, oil, natural gas, gasoline, propane, kerosene, mineral oil and alkalies.

- Protects against destructive effect of galvanic and stray current corrosion
- For residential, commercial and industrial applications
- Connection: FPT x solder
- 000 are lead free

WATTS

Part No.	Connection Size Nominal (In.)	Length (In.)
0009864	1/2	1.88
0009865	3/4	2.13
0009866	1	1.00


BP25NP

TEST PLUG

Allows for quick, efficient and accurate testing of hydronic pipe lines throughout HVAC systems. Consistently rated at 1000 psi. The self-sealing core insures long life and continuous service.

- Brass body and cap
- Neoprene (red cap) for natural gas
- Connection: MPT

WEISS INSTRUMENTS

Part No.	Plug Size (In.)
BP25NP*	1/4


RADIATORKEY

RADIATOR KEY

GB Gruner Brass Fittings CORP.

Part No.	Description
RADIATORKEY	Radiator Valve Stem Key

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WATER FEEDER



101A24

ELECTROMECHANICAL

A low-cost, efficient, and reliable electromechanical water feeder designed to maintain a minimum operating level in small steam boilers as controlled by the low water cut-off. Adding water on demand automatically, the 101A keeps the boiler operating during periods when the cut-off might otherwise stop the burner, providing an extra precaution against overheating should the fuel regulators fail.
This electric water feeder is intended to provide automatic fill on small, low pressure steam boilers in residential and light commercial applications.

- Max. water pressure: 150 lbs.
- Max. steam pressure: 25 lbs.
- Max. boiler size: 5000 sq. ft.
- Connection: 1/2" FPT

McDonnell & Miller

Part No.	Voltage	Use with
101A24	24	Gas Boiler
101A120	120	Oil Boiler



WFU224

ELECTRONIC/MECHANICAL

These water feeders use modern electronic circuitry in conjunction with a solenoid valve to maintain a minimum operating level in low pressure steam boilers. Designed to compliment the new McDonnell & Miller PS 800 Series probe type low water cut-offs.

- Supplies 2 GPM
- Max. boiler size: 500,000 BTUH
- Max. water pressure: 150 psi
- Max. boiler pressure: 15 psi
- Max. water temperature: 175°F
- Connection: 3/8" FPT

McDonnell & Miller

Part No.	Voltage
WFU224	24
WFU2120	120



51

MECHANICAL

Maintains predetermined water levels and provides low water control.
Designed to provide control for boilers above 5000 sq. ft. capacity

- Maximum boiler pressure: 35 psi
- Maximum supply water pressure: 150 psi
- Use with 2 switch for low water cut-off
- Connection: 3/4" FPT

McDonnell & Miller

Part No.	Description
51	Water Feeder, >5000 Sq. Ft.



247

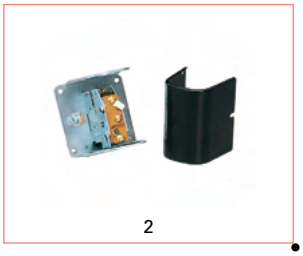
MECHANICAL

For small steam and hot water boilers with high supply needs.

- Hydraulically activated switch
- Automatically adds water when boiler level drops below minimum operating level.
- Maximum boiler pressure: 30 psi
- Maximum supply water pressure: 150 psi
- Connection: 1" FPT
- Use with 2 switch for low water cut-off

McDonnell & Miller

Part No.	Description
247	Water Feeder



2

CUT-OFF SWITCH

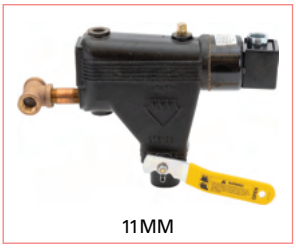
Used to add electrical low water cut-off to mechanical water feeder. Has high voltage terminals for low water cut-off and for low water alarm.

- Use with model 47, 247, 51, 52, 53
- Contact rating: 5.1 F.L. amps 240 Vac

McDonnell & Miller

Part No.	Description
2	Cut-off switch, automatic

LOW WATER CUT-OFF


11MM

MECHANICAL QUICK HOOK-UP

McDonnell & Miller

Part No.	Description
11MM	Replacement Switch


150S

PUMP CONTROL

Mounted at the boiler water line, it starts and stops the pump as the boiler level itself dictates—not according to the rate at which condensate accumulates in the receiver. Consequently it holds the boiler water level between the limits recommended by the boiler manufacturer to maintain maximum steaming efficiency.

- Can be used as liquid level control on tanks or other vessels

McDonnell & Miller

Part No.	Switch
150S	Snap Action


RB24E

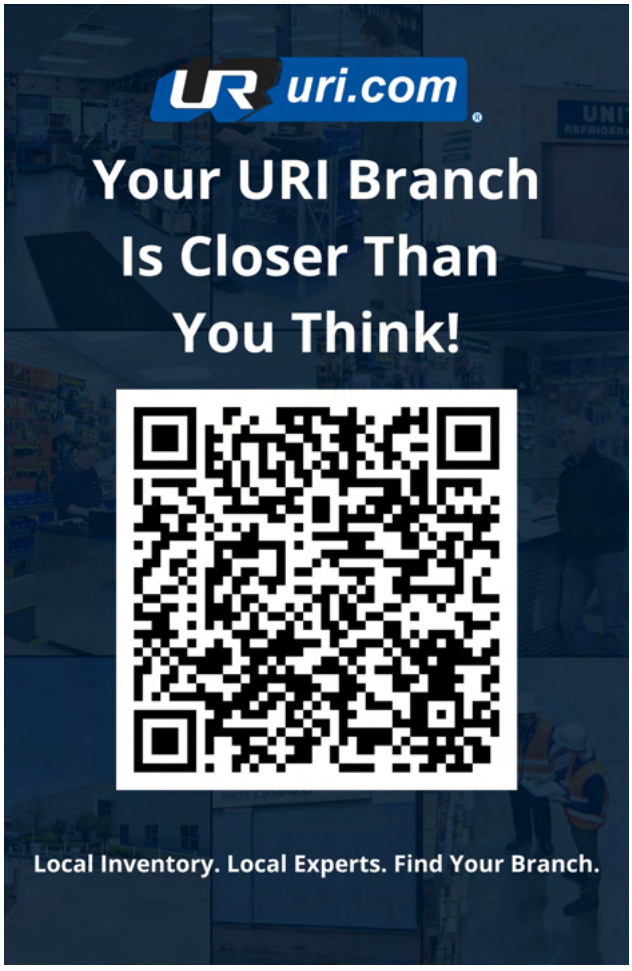
ELECTRONIC SWITCH, LOW PRESSURE

Used to add electrical low water cut-off to mechanical water feeder.

- For residential applications
- Compact size
- Easy to install and wire
- Automatic reset feature resumes operation after a power outage when water is on probe
- Indicates power on and low water
- Maximum ambient temperature 120°F (49°C)
- Maximum water pressure 50 psi (3.5 kg/cm)
- 3' harness cable included

McDonnell & Miller

Part No.	Description
RB24E	Guard Dog, 24V



NOTES



	Page
• Copper Tubing	644-646
• XHP System	647-649
• Tubing Insulation	650-661
• Copper Fitting	662-670
• SB1	667
• RLS Fittings	672-675
• Brass Fitting-Flare	676-683
• PRO PRESS Fitting	684
• ACR Press Fittings	685
• ZoomLock	686
• Brass Fitting-Pipe	687-689
• Brass Fitting-Compression	690-691

	Page
• Pneumatic Fitting	692-694
• Black Iron Pipe	695-698
• Galvanized Iron Pipe	699-700
• Flue Gas Venting System	701-702
• PVC Fitting	703-709
• Food Service, John Guest	710-713
• Access Fitting	714-718
• Tube Hangers	719-729
• Heating Cable	730-731
• Flexible Gas	732-733
• Roof Penetration	734-736

REFRIGERATION SERVICE



14ACR10

TYPE ACR

Copper tube pressurized with nitrogen provides maximum protection against the formation of harmful oxides generated during brazing operations. ACR tube used in the Refrigeration & Air Conditioning Industry is L type tube that is cleaned and capped and specified by the OD. ACR type seamless copper tubing is available cleaned, capped and charged with nitrogen in sizes 3/8" OD thru 3 1/8" OD. Available cleaned, capped, but not charged to 4 1/8" OD. OD sizes 3/8" through 1 3/8" are suitable for use with R410A.

PRICED PER FOOT

Part No.	OD (In.)	Wall Thickness (In.)	Length (Ft.)	Weight/Ft (Lbs.)	Weight (Lbs.)
14ACR10	1/4	0.025	10.0	0.0685	0.07
14TCT[1]	1/4	0.025	20.0	0.0685	0.07
38ACR10	3/8	0.03	10.0	0.126	0.13
38ACR	3/8	0.03	20.0	0.126	0.13
12ACR10	1/2	0.035	10.0	0.198	0.20
12ACR	1/2	0.035	20.0	0.198	0.20
58ACR10	5/8	0.04	10.0	0.285	0.29
58ACR	5/8	0.04	20.0	0.285	0.29
34ACR10	3/4	0.042	10.0	0.362	0.36
34ACR	3/4	0.042	20.0	0.362	0.36
78ACR10	7/8	0.045	10.0	0.455	0.46
78ACR	7/8	0.045	20.0	0.455	0.46
118ACR10	1 1/8	0.05	10.0	0.655	0.66
118ACR	1 1/8	0.05	20.0	0.655	0.66
138ACR10	1 3/8	0.055	10.0	0.884	0.88
138ACR	1 3/8	0.055	20.0	0.884	0.88
158ACR10	1 5/8	0.06	10.0	1.14	1.14
158ACR	1 5/8	0.06	20.0	1.14	1.14
218ACR10	2 1/8	0.07	10.0	1.75	1.75
218ACR	2 1/8	0.07	20.0	1.75	1.75
258ACR	2 5/8	0.08	20.0	2.48	2.48
318ACR	3 1/8	0.09	20.0	3.33	3.33
358ACR	3 5/8	0.1	20.0	4.29	4.29
418ACR	4 1/8	0.11	20.0	5.38	5.38
518ACR	5 1/8	0.125	20.0	7.61	7.61

1 Not cleaned and capped.



18X50

Refrigeration service tube is dehydrated and nitrogen purged sealed copper tube of a consistent fully annealed temper. Tube is manufactured in accordance with ASTM B 280 and ANSI B9.1, refrigeration industry standards. OD sizes 1/8" through 1 1/8" are suitable for use with R410A.

Part No.	OD (In.)	Wall Thickness (In.)	Length (Ft.)	Weight/Coil (Lbs.)	Weight (Lbs.)
18X50	1/8	0.03	50.0	1.74	0.85
316X50	3/16	0.03	50.0	2.88	2.88
14X50	1/4	0.03	50.0	4.02	39.30
14X100	1/4	0.03	100.0	8.04	8.50
516X10	5/16	0.032	10.0	1.09	1.09
516X30	5/16	0.032	30.0	3.27	3.28
516X50	5/16	0.032	50.0	5.45	1.95
516X100	5/16	0.032	100.0	10.9	10.90
38X50	3/8	0.032	50.0	6.7	6.05
38X100	3/8	0.032	100.0	13.4	12.90
12X50	1/2	0.032	50.0	9.1	50.00
12X100	1/2	0.032	100.0	18.2	18.20
58X30	5/8	0.035	30.0	7.53	7.54
58X50	5/8	0.035	50.0	12.55	11.85
58X100	5/8	0.035	100.0	25.1	25.10
34X50	3/4	0.035	50.0	15.25	5.30
34X100	3/4	0.035	100.0	30.5	30.50
78X50	7/8	0.045	50.0	22.75	7.00
78X100	7/8	0.045	100.0	45.5	45.50
118X50	1 1/8	0.05	50.0	32.75	20.00
118X100	1 1/8	0.05	100.0	65.5	65.50
138X50	1 3/8	0.055	50.0	44.2	44.20
138X100	1 3/8	0.055	100.0	88.4	88.40
158X50	1 5/8	0.06	50.0	57.0	57.00
158X100	1 5/8	0.06	100.0	14.0	114.00

WATER SERVICE



12LCOPPER

TYPE L

L type tube is used in the Plumbing Industry for water service and is specified by its nominal ID dimension.

PRICED PER FOOT

Part No.	Nominal ID (In.)	OD (In.)	Wall Thick-ness (In.)	Weight/Ft (Lbs.)	Weight (Lbs.)
12LCOPPER	1/2	5/8	0.04	0.285	0.28
34LCOPPER	3/4	7/8	0.045	0.455	0.45
1LCOPPER	1	1 1/8	0.05	0.655	0.65
114LCOPPER	1-1/4	1 3/8	0.055	0.884	0.88
112LCOPPER	1-1/2	1 5/8	0.06	1.14	1.14

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Part No.	Nominal ID (In.)	OD (In.)	Wall Thick-ness (In.)	Weight/Ft (Lbs.)	Weight (Lbs.)
2LCOPPER	2	2 1/8	0.07	1.75	1.75
212LCOPPER	2-1/2	2 5/8	0.08	2.48	2.48
3LCOPPER	3	3 1/8	0.09	3.33	3.33
4LCOPPER	4	4 1/8	0.11	5.38	5.38
5LCOPPER	5	5 1/8	0.125	7.61	7.61
6LCOPPER	6	6 1/8	0.122	10.2	10.20



38KACR

TYPE K

K type copper, traditionally used in underground service, is heavier walled than L tube. It is used in underground water service and oxygen service. It could be specified by OD or ID. So, please specify exact dimension. Cleaned for oxygen service to ASTM B819 specifications. 20' length standard. OD sizes 3/8" through 2 5/8" are suitable for use with R410A.

PRICED PER FOOT

Part No.	Nominal ID (In.)	OD (In.)	Wall Thick-ness (In.)	Weight/Ft (Lbs.)	Weight (Lbs.)
38KACR	1/4	3/8	0.035	0.145	0.14
12KACR	3/8	1/2	0.049	0.269	0.27
58KACR	1/2	5/8	0.049	0.344	0.34
34KACR	5/8	3/4	0.049	0.418	0.42
78KACR	3/4	7/8	0.065	0.641	0.64
118KACR	1	1 1/8	0.065	0.839	0.84
138KACR	1-1/4	1 3/8	0.065	1.04	1.04
158KACR	1-1/2	1 5/8	0.072	1.36	1.36
218KACR	2	2 1/8	0.083	2.06	2.06
258KACR	2-1/2	2 5/8	0.095	2.93	2.93
318KACR	3	3 1/8	0.109	4.0	4.00



12M

TYPE M

M type copper, is thin walled, low cost tube that is used in water service and drain. It is specified by nominal ID.

PRICED PER FOOT

Part No.	Nominal ID (In.)	OD (In.)	Wall Thick-ness (In.)	Weight/Ft (Lbs.)	Weight (Lbs.)
12M	1/2	5/8	0.028	0.204	0.20
58MCOPPER	5/8	3/4	0.03	0.263	0.26
34M	3/4	7/8	0.032	0.328	0.33
1M	1	1 1/8	0.035	0.465	0.46
114M	1-1/4	1 3/8	0.042	0.682	0.68
112M	1-1/2	1 5/8	0.049	0.94	0.94
2M	2	2 1/8	0.058	1.46	0.90
212M	2-1/2	2 5/8	0.065	2.03	2.03
3M	3	3 1/8	0.072	2.68	2.68
4M	4	4 1/8	0.095	4.66	4.66

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Part No.	Nominal ID (In.)	OD (In.)	Wall Thick-ness (In.)	Weight/Ft (Lbs.)	Weight (Lbs.)
5M	5	5 1/8	0.109	6.66	6.66
6M	6	6 1/8	0.122	8.92	8.92

PREINSULATED SUCTION LINE



14X12X50ISL

- Does not include liquid line
- Insulation wall thickness available: 3/8, 1/2, 3/4 inch

MUELLER INDUSTRIES

Part No.	Tube Size (In.)	Wall Thickness (In.)	Length (Ft.)	Weight (Lbs.)
14X12X50ISL	1/4	1/2	50.0	5.00
14X1X50ISL	1/4	1	50.0	4.02
14X1X50ISL-C[1]	1/4	1	50.0	4.10
14X1X100ISL-C[1]	1/4	1	100.0	16.86
14X12X50ISL-C[1]	1/4	1/2	50.0	11.85
14X12X100ISL-C[1]	1/4	1/2	100.0	22.46
14X34X50ISL-C[1]	1/4	3/4	50.0	12.68
14X34X100ISL-C[1]	1/4	3/4	100.0	16.85
12X12X50ISL	1/2	1/2	50.0	10.00
38X12X50ISL	3/8	1/2	50.0	9.00
12X34X50ISL-C[1]	1/2	3/4	50.0	21.11
12X34X100ISL-C[1]	1/2	3/4	100.0	31.03
12X12X50ISL-C[1]	1/2	1/2	50.0	20.23
12X12X100ISL-C[1]	1/2	1/2	100.0	37.28
12X1X50ISL	1/2	1	50.0	9.12
38X1X50ISL	3/8	1	50.0	6.68
12X1X50ISL-C[1]	1/2	1	50.0	9.13
38X1X50ISL-C[1]	3/8	1	50.0	6.70
12X1X100ISL-C[1]	1/2	1	100.0	31.03
38X1X100ISL-C[1]	3/8	1	100.0	22.39
58X12X50ISL	5/8	1/2	50.0	12.55
58X12X50ISL-C[1]	5/8	1/2	50.0	24.02
58X12X100ISL-C[1]	5/8	1/2	100.0	44.87
58X1X50ISL	5/8	1	50.0	12.58
58X1X50ISL-C[1]	5/8	1	50.0	12.60
58X1X100ISL-C[1]	5/8	1	100.0	38.62
58X34X50ISL-C[1]	5/8	3/4	50.0	24.91
58X34X100ISL-C[1]	5/8	3/4	100.0	38.62
58X34X50ISL	5/8	3/4	50.0	12.55
34X12X50ISL	3/4	1/2	50.0	15.20
34X12X50ISL-C[1]	3/4	1/2	50.0	29.66
34X12X100ISL-C[1]	3/4	1/2	100.0	54.37
38X12X50ISL-C[1]	3/8	1/2	50.0	15.44
38X12X100ISL-C[1]	3/4	1/2	100.0	27.99
38X34X50ISL-C[1]	3/8	3/4	50.0	16.79
38X34X100ISL-C[1]	3/8	3/4	100.0	22.39
34X34X50ISL	3/4	3/4	50.0	15.20
34X34X50ISL-C[1]	3/4	3/4	50.0	30.31
34X34X100ISL-C[1]	3/4	3/4	100.0	48.12
34X1X50ISL	3/4	1	50.0	15.24

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⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PREINSULATED SUCTION LINE

Part No.	Tube Size (In.)	Wall Thickness (In.)	Length (Ft.)	Weight (Lbs.)
34X1X50ISL-C[1]	3/4	1	50.0	15.30
34X1X100ISL-C[1]	3/4	1	100.0	48.12
78X12X50ISL	7/8	1/2	50.0	23.70
78X12X50ISL-C[1]	7/8	1/2	50.0	38.90
78X12X100ISL-C[1]	7/8	1/2	100.0	72.85
78X1X50ISL-C[1]	7/8	1	50.0	38.55
78X1X100ISL-C[1]	7/8	1	100.0	66.60
78X34X50ISL	7/8	3/4	50.0	22.70
78X1X50ISL	7/8	1	50.0	22.75
78X34X50ISL-C[1]	7/8	3/4	50.0	39.55
78X34X100ISL-C[1]	7/8	3/4	100.0	66.60
118X50ISL	1 1/8	0.375	50.0	32.75
118X12X50ISL	1 1/8	1/2	50.0	32.75
118X34X50ISL	1 1/8	3/4	50.0	32.75
118X1X50ISL	1 1/8	1	50.0	32.75

1 Coated insulation

PREINSULATED LINE SET



61030

- Includes insulated suction line and non-insulated liquid line.
- Insulation wall thickness 3/8" or 3/4"
- Suitable for use with R410A

Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Wall Thick-ness (In.)	Length (Ft.)	Weight (Lbs.)
61030	3/8	5/8	0.375	30.0	11.55
61030-1/2	3/8	5/8	1/2	30.0	35.00
61030-3/4	3/8	5/8	3/4	30.0	11.55
61050-1/2	3/8	5/8	1/2	50.0	19.25
61050-3/4	3/8	5/8	3/4	50.0	19.25
61225-1/2	3/8	3/4	1/2	25.0	12.00
61230-3/4	3/8	3/4	3/4	30.0	13.14
61235-1/2	3/8	3/4	1/2	35.0	16.00
61230-1/2	3/8	3/4	1/2	30.0	15.00
61250-1/2	3/8	3/4	1/2	50.0	21.90
61425-1/2	3/8	7/8	1/2	25.0	15.00
61430-1/2	3/8	7/8	1/2	30.0	18.50
61250-3/4	3/8	3/4	3/4	50.0	21.90
61250-1	3/8	3/4	1	50.0	21.95
61430-3/4	3/8	7/8	3/4	30.0	17.64
61225	3/8	3/4	0.375	25.0	10.95
61450-1/2	3/8	7/8	1/2	50.0	29.00
61425	3/8	7/8	0.375	25.0	14.70
61450-3/4	3/8	7/8	3/4	50.0	29.40
61450-1	3/8	7/8	1	50.0	29.45
61435	3/8	7/8	0.375	35.0	20.58
61830	3/8	1-1/8	0.375	30.0	23.67
61830-1/2	3/8	1-1/8	1/2	30.0	24.00
61850-1/2	3/8	1-1/8	1/2	50.0	39.00

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Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Wall Thick-ness (In.)	Length (Ft.)	Weight (Lbs.)
61850-3/4	3/8	1-1/8	3/4	50.0	39.45
61850-1	3/8	1-1/8	1	50.0	39.45

LINE SET WITH POWER CABLE



61010500B6

MINI SPLIT

Part No.	Description	Length (Ft.)
61010500B6	Mini Split Line Set 3/8"X5/8"X1"Wall 50'	50.0
61210500B6	Mini Split Line Set 3/8"X3/4"X1"Wall 50'	50.0
61420500B6	Mini Split Line Set 3/8"X7/8"X1"Wall 50'	50.0
40810500B6	Mini Split Line Set 1/4"X1/2"X1"Wall 50'	50.0



MSLS141214425-1/2

WALL THICKNESS, 1/2"

- Sunlight resistant
- RoHS compliant, black PVC Jacket
- 600V
- R410A rated

Part No.	Liquid Line OD (In.)	Suction Line OD (In.)	Wall Thick-ness (In.)	Length (Ft.)	Weight (Lbs.)
MSLS141214425-1/2	1/4	1/2	1/2	25.0	6.45
MSLS141214450-1/2	1/4	1/2	1/2	50.0	12.90
MSLS143814425-1/2	1/4	3/8	1/2	25.0	6.50
MSLS143814450-1/2	1/4	3/8	1/2	50.0	13.00
MSLS145814425-1/2	1/4	5/8	1/2	25.0	9.62
MSLS145814450-1/2	1/4	5/8	1/2	50.0	19.25
MSLS385814425-1/2	3/8	5/8	1/2	25.0	9.62
MSLS385814450-1/2	3/8	5/8	1/2	50.0	19.25
MSLS141225-1/2[1]	1/4	1/2	1/2	25.0	11.27
MSLS141250-1/2[1]	1/4	1/2	1/2	50.0	14.00
MSLS143825-1/2[1]	1/4	3/8	1/2	25.0	5.50
MSLS143850-1/2[1]	1/4	3/8	1/2	50.0	14.00
MSLS145825-1/2[1]	1/4	5/8	1/2	25.0	8.29
MSLS145850-1/2[1]	1/4	5/8	1/2	50.0	16.57
MSLS385825-1/2[1]	3/8	5/8	1/2	25.0	12.48
MSLS385850-1/2[1]	3/8	5/8	1/2	50.0	18.00
MSLS141214425-3/4	1/4	1/2	3/4	25.0	7.00
MSLS141214450-3/4	1/4	1/2	3/4	50.0	13.25
MSLS143814425-3/4	1/4	3/8	3/4	25.0	7.00
MSLS143814450-3/4	1/4	3/8	3/4	50.0	13.50
MSLS145814425-3/4	1/4	5/8	3/4	25.0	10.20
MSLS145814450-3/4	1/4	5/8	3/4	50.0	20.00
MSLS385814425-3/4	3/8	5/8	3/4	25.0	10.20
MSLS385814450-3/4	3/8	5/8	3/4	50.0	20.00

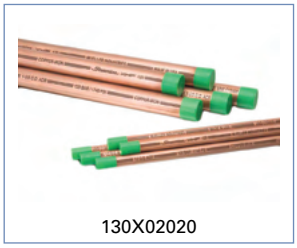
1 No Cable

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

XHP COPPER TUBE & FITTINGS

TUBING

Mueller Industries' Streamline® XHP system consists of copper-iron alloy tube and fittings specially designed to manage the extended high pressures and broad temperature fluctuations associated with modern refrigerants. Ideally suited for commercial CO refrigeration applications, this technically advanced tubing is a more practical alternative to steel piping due in part to familiar copper properties and the traditional joining method of brazing.



130X02020

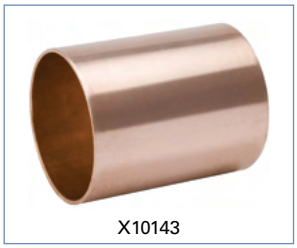
TUBING

- 1885 PSI - Alloy C194 (CuFe2P)
- ACR Cleaning Process
- High Corrosion Resistance
- Traditional Brazed Joining
- Magnetic Identification
- Green Caps
- XHP Tube is Made in USA

PRICED PER FOOT

Part No.	OD (In.)	Length (Ft.)	Weight/Ft (Lbs.)
130X02020	3/8	20.0	0.11
130X03020	1/2	20.0	0.2
130X04020	5/8	20.0	0.31
130X06020	7/8	20.0	0.6
130X10020	1 1/8	20.0	0.9967
130X12020	1 3/8	20.0	1.4883
130X14020	1 5/8	20.0	2.0781
130X20020	2 1/8	20.0	3.5

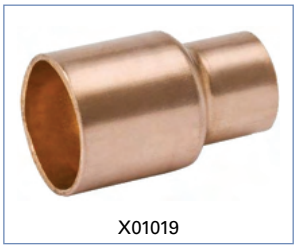
COUPLING, STAKED STOP



X10143

Part No.	OD (In.)
X10143	3/8
X10144	1/2
X10145	5/8
X10157	3/4
X10146	7/8
X10147	1 1/8
X10148	1 3/8
X10149	1 5/8
X10150	2 1/8
X10151	2-5/8

COUPLING REDUCER



X01019

Part No.	OD 1 (In.)	OD 2 (In.)
X01019	1/2	3/8
X01023	5/8	1/2
X01029	3/4	5/8
X01035	7/8	3/4
X01052	1 1/8	1/2
X01049	1 1/8	7/8
X01061	1 3/8	1/2
X01060	1 3/8	5/8
X01059	1 3/8	3/4
X01058	1 3/8	7/8
X01056	1 3/8	1 1/8
X01065	1 5/8	1 1/8
X01064	1 5/8	1 3/8
X01068	1 5/8	3/4
X01067	1 5/8	7/8
X01073	2 1/8	1 5/8

FITTING REDUCER



X01312

Part No.	OD 1 (In.)	OD 2 (In.)
X01312	1/2	3/8
X01317	5/8	3/8
X01315	5/8	1/2
X01322	3/4	3/8
X01321	3/4	1/2
X01320	3/4	5/8
X11328	7/8	3/8
X01327	7/8	1/2
X01326	7/8	5/8
X01325	7/8	3/4
X01340	1 1/8	1/2
X01399	1 1/8	5/8
X01338	1 1/8	3/4
X01337	1 1/8	7/8
X01347	1 3/8	5/8
X01343	1 3/8	1 1/8
X01353	1 5/8	7/8
X01350	1 5/8	1 3/8
X01360	2 1/8	1 1/8
X01358	2 1/8	1 5/8
X01367	2-1/8	2-5/8

XHP COPPER TUBE & FITTINGS

CAP



X07004

Part No.	OD (In.)
X07004	3/8
X07006	1/2
X07007	5/8
X07008	3/4
X07009	7/8
X07011	1 1/8
X07012	1 3/8
X07013	1 5/8
X07014	2 1/8

45° ELBOW LONG RADIUS



X03012

Part No.	OD (In.)
X03012	3/8
X03021	1/2
X03026	5/8
X03030	3/4
X03034	7/8
X03044	1 1/8
X03050	1 3/8
X03055	1 5/8
X03059	2 1/8

45° ELBOW LONG RADIUS STREET



X03312

Part No.	OD (In.)
X03312	3/8
X03321	1/2
X03326	5/8
X03330	3/4
X03334	7/8
X03344	1 1/8
X03350	1 3/8
X03355	1 5/8
X03359	2 1/8

90° ELBOW LONG RADIUS



X02716

Part No.	OD (In.)
X02716	3/8
X02717	1/2
X02722	5/8
X02728	3/4
X02734	7/8
X02747	1 1/8
X02055	1 3/8
X02063	1 5/8
X02072	2 1/8
X02082	2-5/8

90° ELBOW LONG RADIUS STREET


X02809

Part No.	OD (In.)
X02809	3/8
X02817	1/2
X02822	5/8
X02828	3/4
X02834	7/8
X02847	1 1/8
X02350	1 3/8
X02355	1 5/8
X02359	2 1/8
X02363	2-5/8

TEE

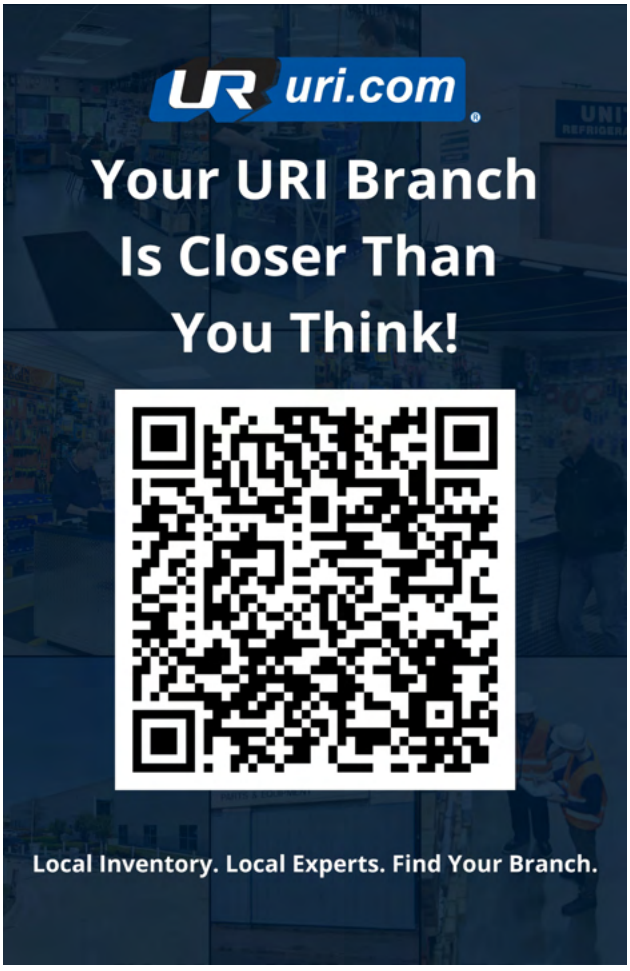

X04000

Part No.	OD (In.)
X04000	3/8
X04001	1/2
X04006	5/8
X04017	3/4
X04031	7/8
X04048	1 1/8
X04068	1 3/8
X04084	1 5/8
X40102	2 1/8

REDUCING TEE


X04004

Part No.	OD 1 (In.)	OD 2 (In.)	OD (In.)
X04004	1/2	3/8	3/8
X04002	1/2	1/2	3/8
X04008	5/8	5/8	3/8
X04007	5/8	5/8	1/2
X04010	5/8	1/2	1/2
X04018	3/4	3/4	5/8
X04019	3/4	3/4	1/2
X04032	7/8	7/8	3/4
X04034	7/8	7/8	1/2
X04033	7/8	7/8	5/8
X04050	1 1/8	1 1/8	3/4
X04049	1 1/8	1 1/8	7/8
X14071	1 3/8	1 3/8	3/4
X04070	1 3/8	1 3/8	7/8
X04069	1 3/8	1 3/8	1 1/8
X04086	1 5/8	1 5/8	1 1/8
X04085	1 5/8	1 5/8	1 3/8
X40103	2 1/8	2 1/8	1 5/8
X40123	2 5/8	2 5/8	2 5/8



EXPANDED ELASTOMER



34X38COIL

COIL INSULATION

Closed cell elastomeric thermal insulation supplied in a continous length, un-slit. Designed to minimize waste, eliminate joints, facilitate speed and ease of insulation in a compact easy to handle package. Coil insulation has relaxed ID tolerance to accomodate elbows and fittings.

armacell

Part No.	Insulation ID (In.)	Wall Thickness (In.)	Length (Ft.)
34X38COIL	3/4	3/8	110.0
78X38COIL	7/8	3/8	95.0
118X38COIL	1 1/8	3/8	75.0
58X12COIL	5/8	1/2	95.0
78X12COIL	7/8	1/2	75.0



14X38

UNSLIT 3/8" WALL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	Copper Tubing (In.) OD Size	Iron Pipe (In.)	Wall Thickness (In.)
14X38	1/4	1/8	1/4	1/2	3/8
38X38	3/8	1/4	3/8	1/2	3/8
12X38	1/2	3/8	1/2	1/4	3/8
58X38	5/8	1/2	5/8	3/8	3/8
34X38	3/4	5/8	3/4	-	3/8
78X38	7/8	3/4	7/8	1/2	3/8
118X38	1 1/8	1	1 1/8	3/4	3/8
138X38	1 3/8	1 1/4	1 3/8	1	3/8
158X38	1 5/8	1 1/2	1 5/8	1.25	3/8
178X38	1 7/8	-	1.875	1.5	3/8
218X38	2 1/8	2	2 1/8	-	3/8
238X38	2 3/8	-	2.375	2	3/8
258X38	2 5/8	2 1/2	2 5/8	-	3/8
318X38	3 1/8	3	3 1/8	3 1/8	3/8
358X38	3 5/8	3.625	4.375	3	3/8



38X12

UNSLIT 1/2" WALL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	Copper Tubing (In.) OD Size	Iron Pipe (In.)	Wall Thick-ness (In.)	Length (Ft.)
14X12[1]	1/4	-	1/4	-	1/4	6.0
38X12[1]	3/8	1/4	3/8	-	1/2	6.0
12X12[1]	1/2	3/8	1/2	1/4	1/2	6.0
58X12[1]	5/8	1/2	5/8	3/8	1/2	6.0
34X12[1]	3/4	5/8	3/4	-	1/2	6.0
78X12[1]	7/8	3/4	7/8	1/2	1/2	6.0
118X12[1]	1 1/8	1	1 1/8	3/4	1/2	6.0
138X12[1]	1 3/8	1 1/4	1 3/8	1	1/2	6.0
158X12[1]	1 5/8	1 1/2	1 5/8	1.25	1/2	6.0
218X12[1]	2 1/8	2	2 1/8	-	1/2	6.0
258X12[1]	2 5/8	2 1/2	2 5/8	-	1/2	6.0
318X12[1]	3 1/8	3	3 1/8	-	1/2	6.0
358X12[1]	3 5/8	3 1/2	3 5/8	-	1/2	6.0
418X12[1]	4 1/8	4	4 1/8	3.5	1/2	6.0

1 6' length



38X34

UNSLIT 3/4" WALL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	Copper Tubing (In.) OD Size	Iron Pipe (In.)	Wall Thick-ness (In.)	Length (Ft.)
14X34[1]	1/4	1/8	1/4	-	3/4	6.0
38X34[1]	3/8	1/4	3/8	-	3/4	6.0
12X34[1]	1/2	3/8	1/2	1/4	3/4	6.0
58X34[1]	5/8	1/2	5/8	3/8	3/4	6.0
34X34[1]	3/4	5/8	3/4	-	3/4	6.0
78X34[1]	7/8	3/4	7/8	1/2	3/4	6.0
118X34[1]	1 1/8	1	1 1/8	3/4	3/4	6.0
138X34[1]	1 3/8	1 1/4	1 3/8	1	3/4	6.0
158X34[1]	1 5/8	1 1/2	1 5/8	1.25	3/4	6.0
178X34[1]	1 7/8	-	1 7/8	1.5	3/4	6.0
218X34[1]	2 1/8	2	2 1/8	-	3/4	6.0
212X34[1]	2.5	-	2.875	2.5	3/4	6.0
258X34[1]	2 5/8	2 1/2	2 5/8	-	3/4	6.0
318X34[1]	3 1/8	3	3 1/8	-	3/4	6.0
358X34[1]	3 5/8	3 1/2	3 5/8	-	3/4	6.0
418X34[1]	4 1/8	4	4 1/8	3.5	3/4	6.0

1 6' length

UNSLIT 1" WALL


14X1

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
14X1[1]	1/4	-	1/4	-	1	6.0
38X1	3/8	1/4	3/8	-	1	6.0
12X1[1]	1/2	3/8	1/2	1/4	1	6.0
58X1[1]	5/8	1/2	5/8	3/8	1	6.0
34X1[1]	3/4	5/8	3/4	-	1	6.0
78X1[1]	7/8	3/4	7/8	1/2	1	6.0
118X1[1]	1 1/8	1	1 1/8	3/4	1	6.0
138X1[1]	1 3/8	1 1/4	1 3/8	1	1	6.0
158X1[1]	1 5/8	1 1/2	1 5/8	1.25	1	6.0
218X1[1]	2 1/8	2	2 1/8	-	1	6.0
258X1[1]	2 5/8	2 1/2	2 5/8	-	1	6.0
318X1[1]	3 1/8	3	3 1/8	-	1	6.0
358X1[1]	3 5/8	3 1/2	3 5/8	-	1	6.0
418X1[1]	4 1/8	4	4 1/8	3.5	1	6.0

1 6' length

UNSLIT, 1 1/2" WALL


38X112

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X112	3/8	1/4	3/8	-	1 1/2
58X112	5/8	1/2	5/8	3/8	1 1/2
34X112	3/4	5/8	3/4	-	1 1/2
78X112	7/8	3/4	7/8	1/2	1 1/2
12X112	1/2	3/8	1/2	1/4	1 1/2
118X112	1 1/8	1	1 1/8	3/4	1 1/2
138X112	1 3/8	1 1/4	1 3/8	1	1 1/2
158X112	1 5/8	1 1/2	1 5/8	1.25	1 1/2
218X112	2 1/8	2	2 1/8	-	1 1/2
258X112	2 5/8	2 1/2	2 5/8	-	1 1/2
318X112	3 1/8	3	3 1/8	-	1 1/2
358X112	3 5/8	3 1/2	3 5/8	3	1 1/2
418X112	4 1/8	4	4 1/8	3.5	1 1/2

UNSLIT, 2" WALL


58X2

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
58X2	5/8	1/2	5/8	3/8	2
78X2	7/8	3/4	7/8	1/2	2
118X2	1 1/8	1	1 1/8	3/4	2
138X2	1 3/8	1 1/4	1 3/8	1	2
218X2	2 1/8	2	2 1/8	-	2
318X2	3 1/8	3	3 1/8	-	2
358X2	3 5/8	3 1/2	3 5/8	-	2

UNSLIT 1/2" WALL WHITE


38X12WT

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
38X12WT[1]	3/8	1/4	3/8	-	1/2	6.0
12X12WT[1]	1/2	3/8	1/2	1/4	1/2	6.0
58X12WT[1]	5/8	1/2	5/8	3/8	1/2	6.0
34X12WT[1]	3/4	5/8	3/4	-	1/2	6.0
78X12WT[1]	7/8	3/4	7/8	1/2	1/2	6.0
118X12WT[1]	1 1/8	1	1 1/8	3/4	1/2	6.0
138X12WT[1]	1 3/8	1 1/4	1 3/8	1	1/2	6.0
158X12WT[1]	1 5/8	1 1/2	1 5/8	1.25	1/2	6.0
218X12WT[1]	2 1/8	2	2 1/8	-	1/2	6.0
258X12WT[1]	2 5/8	2 1/2	2 5/8	-	1/2	6.0
318X12WT[1]	3 1/8	3	3 1/8	-	1/2	6.0

1 6' length

EXPANDED ELASTOMER

UNSLIT 3/4" WALL WHITE



12X34WT

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
12X34WT[1]	1/2	3/8	1/2	1/4	3/4	6.0
58X34WT[1]	5/8	1/2	5/8	3/8	3/4	6.0
34X34WT[1]	3/4	5/8	3/4	-	3/4	6.0
78X34WT[1]	7/8	3/4	7/8	1/2	3/4	6.0
118X34WT[1]	1 1/8	1	1 1/8	3/4	3/4	6.0
138X34WT[1]	1 3/8	1 1/4	1 3/8	1	3/4	6.0
158X34WT[1]	1 5/8	1 1/2	1 5/8	1.25	3/4	6.0
218X34WT[1]	2 1/8	2	2 1/8	-	3/4	6.0
258X34WT[1]	2 5/8	2 1/2	2 5/8	-	3/4	6.0
318X34WT[1]	3 1/8	3	3 1/8	-	3/4	6.0
358X34WT[1]	3 5/8	3 1/2	3 5/8	3	3/4	6.0
418X34WT[1]	4 1/8	4	4 1/8	-	3/4	6.0

1 6' length

UNSLIT 1" WALL WHITE



12X1WT

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
12X1WT[1]	1/2	3/8	1/2	1/4	1	6.0
58X1WT[1]	5/8	1/2	5/8	3/8	1	6.0
78X1WT[1]	7/8	3/4	7/8	1/2	1	6.0
118X1WT[1]	1 1/8	1	1 1/8	3/4	1	6.0
138X1WT[1]	1 3/8	1 1/4	1 3/8	1	1	6.0
158X1WT[1]	1 5/8	1 1/2	1 5/8	1.25	1	6.0
218X1WT[1]	2 1/8	2	2 1/8	-	1	6.0
258X1WT[1]	2 5/8	2 1/2	2 5/8	-	1	6.0
318X1WT[1]	3 1/8	3	3 1/8	-	1	6.0
358X1WT[1]	3 5/8	3 1/2	3 5/8	-	1	6.0
418X1WT[1]	4 1/8	4	4 1/8	-	1	6.0

1 6' length

UNSLIT 1 1/2" WALL WHITE



38X112WT

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
38X112WT[1]	3/8	1/4	3/8	-	1 1/2	6.0
12X112WT[1]	1/2	3/8	1/2	1/4	1 1/2	6.0
58X112WT[1]	5/8	1/2	5/8	3/8	1 1/2	6.0
78X112WT[1]	7/8	3/4	7/8	1/2	1 1/2	6.0
118X112WT[1]	1 1/8	1	1 1/8	3/4	1 1/2	6.0
138X112WT[1]	1 3/8	1 1/4	1 3/8	1	1 1/2	6.0
158X112WT[1]	1 5/8	1 1/2	1 5/8	1.25	1 1/2	6.0
218X112WT[1]	2 1/8	2	2 1/8	-	1 1/2	6.0
258X112WT[1]	2 5/8	2 1/2	2 5/8	-	1 1/2	6.0
318X112WT[1]	3 5/8	3 1/2	3 1/8	-	1 1/2	6.0
418X112WT[1]	4 1/8	4	4 1/8	-	1 1/2	6.0
358X112WT	3 5/8	3 1/2	3 5/8	-	1 1/2	6.0

1 6' length

UNSLIT 2" WALL WHITE

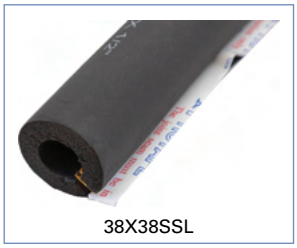


12X2WT

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
12X2WT[1]	1/2	3/8	1/2	1/4	2	6.0
58X2WT[1]	5/8	1/2	5/8	3/8	2	6.0
38X2WT	3/8	1/4	3/8	-	2	6.0
78X2WT[1]	7/8	3/4	7/8	1/2	2	6.0
118X2WT	1 1/8	1	1 1/8	3/4	2	6.0
138X2WT[1]	1 3/8	1 1/4	1 3/8	1	2	6.0
158X2WT[1]	1 5/8	1 1/2	1 5/8	1.25	2	6.0
218X2WT[1]	2 1/8	2	2 1/8	-	2	6.0
258X2WT[1]	2 5/8	2 1/2	2 5/8	-	2	6.0
318X2WT[1]	3 1/8	3	3 1/8	-	2	6.0
358X2WT[1]	3 5/8	3 1/2	3 5/8	-	2	6.0
418X2WT	4 1/8	4	4 1/8	-	2	6.0

1 6' length

PRE-SLIT 3/8" WALL, SELF SEAL



38X38SSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X38SSL	3/8	1/4	3/8	-	3/8
58X38SSL	5/8	1/2	5/8	3/8	3/8
34X38SSL	3/4	5/8	3/4	-	3/8
78X38SSL	7/8	3/4	7/8	1/2	3/8
118X38SSL	1 1/8	1	1 1/8	3/4	3/8
138X38SSL	1 3/8	1 1/4	1 3/8	1	3/8
158X38SSL	1 5/8	1 1/2	1 5/8	1.25	3/8
218X38SSL	2 1/8	2	2 1/8	-	3/8

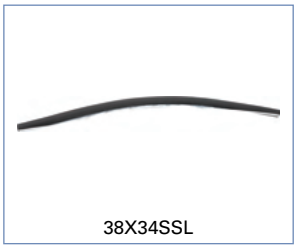
PRE-SLIT 1/2" WALL, SELF SEAL



38X12SSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X12SSL	3/8	1/4	3/8	-	1/2
12X12SSL	1/2	3/8	1/2	1/4	1/2
58X12SSL	5/8	1/2	5/8	3/8	1/2
34X12SSL	3/4	5/8	3/4	-	1/2
78X12SSL	7/8	3/4	7/8	1/2	1/2
118X12SSL	1 1/8	1	1 1/8	3/4	1/2
138X12SSL	1 3/8	1 1/4	1 3/8	1	1/2
158X12SSL	1 5/8	1 1/2	1 5/8	1.25	1/2
218X12SSL	2 1/8	2	2 1/8	-	1/2
258X12SSL	2 5/8	2 1/2	2 5/8	-	1/2
318X12SSL	3 1/8	3	3 1/8	-	1/2

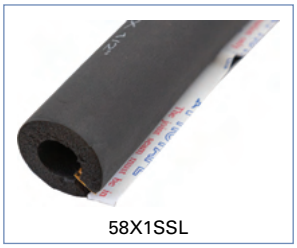
PRE-SLIT 3/4" WALL, SELF SEAL



38X34SSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X34SSL	3/8	1/4	3/8	-	3/4
12X34SSL	1/2	3/8	1/2	1/4	3/4
58X34SSL	5/8	1/2	5/8	3/8	3/4
34X34SSL	3/4	5/8	3/4	-	3/4
78X34SSL	7/8	3/4	7/8	1/2	3/4
118X34SSL	1 1/8	1	1 1/8	3/4	3/4
138X34SSL	1 3/8	1 1/4	1 3/8	1	3/4
158X34SSL	1 5/8	1 1/2	1 5/8	1.25	3/4
218X34SSL	2 1/8	2	2 1/8	-	3/4
258X34SSL	2 5/8	2 1/2	2 5/8	-	3/4
318X34SSL	3 1/8	3	3 1/8	-	3/4
418X34SSL	4 1/8	4	4 1/8	3 1/2	3/4

PRE-SLIT 1" WALL, SELF SEAL

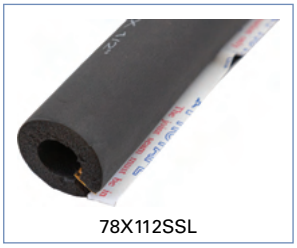


58X1SSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
58X1SSL	5/8	1/2	5/8	3/8	1
34X1SSL	3/4	5/8	3/4	-	1
78X1SSL	7/8	3/4	7/8	1/2	1
118X1SSL	1 1/8	1	1 1/8	3/4	1
138X1SSL	1 3/8	1 1/4	1 3/8	1	1
158X1SSL	1 5/8	1 1/2	1 5/8	1.25	1
218X1SSL	2 1/8	2	2 1/8	-	1
258X1SSL	2 5/8	2 1/2	2 5/8	-	1
318X1SSL	3 1/8	3	3 1/8	-	1
358X1SSL	3 5/8	3 1/2	3 5/8	3	1
418X1SSL	4 1/8	4	4 1/8	3 1/2	1

EXPANDED ELASTOMER

PRE-SLIT 1 1/2" WALL, SELF SEAL


78X112SSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
78X112SSL	7/8	3/4	7/8	1/2	1 1/2
118X112SSL	1 1/8	1	1 1/8	3/4	1 1/2
138X112SSL	1 3/8	1 1/4	1 3/8	1	1 1/2
158X112SSL	1 5/8	1 1/2	1 5/8	1.25	1 1/2
218X112SSL	2 1/8	2	2 1/8	-	1 1/2
258X112SSL	2 5/8	2 1/2	2 5/8	-	1 1/2

PRE-SLIT 1/2" WALL, SELF SEAL, WHITE


38X12WTSSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X12WTSSL	3/8	1/4	3/8	-	1/2
12X12WTSSL	1/2	3/8	1/2	1/4	1/2
58X12WTSSL	5/8	1/2	5/8	3/8	1/2
34X12WTSSL	3/4	5/8	3/4	-	1/2
78X12WTSSL	7/8	3/4	7/8	1/2	1/2
118X12WTSSL	1 1/8	1	1 1/8	3/4	1/2
138X12WTSSL	1 3/8	1 1/4	1 3/8	1	1/2
158X12WTSSL	1 5/8	1 1/2	1 5/8	1.25	1/2
218X12WTSSL	2 1/8	2	2 1/8	-	1/2
258X12WTSSL	2 5/8	2 1/2	2 5/8	-	1/2
318X12WTSSL	3 1/8	3	3 1/8	-	1/2

PRE-SLIT 3/4" WALL, SELF SEAL, WHITE


38X34WTSSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
38X34WTSSL	3/8	1/4	3/8	-	3/4
12X34WTSSL	1/2	3/8	1/2	1/4	3/4
58X34WTSSL	5/8	1/2	5/8	3/8	3/4
34X34WTSSL	3/4	5/8	3/4	-	3/4
78X34WTSSL	7/8	3/4	7/8	1/2	3/4
118X34WTSSL	1 1/8	1	1 1/8	3/8	3/4
138X34WTSSL	1 3/8	1 1/4	1 3/8	1	3/4
158X34WTSSL	1 5/8	1 1/2	1 5/8	1.25	3/4
218X34WTSSL	2 1/8	2	2 1/8	-	3/4
258X34WTSSL	2 5/8	2 1/2	2 5/8	-	3/4
318X34WTSSL	3 1/8	3	3 1/8	-	3/4
418X34WTSSL	4 1/8	4	4 1/8	3.5	3/4

PRE-SLIT 1" WALL, SELF SEAL, WHITE


58X1WTSSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
58X1WTSSL	5/8	1/2	5/8	3/8	1
34X1WTSSL	3/4	5/8	3/4	-	1
78X1WTSSL	7/8	3/4	7/8	1/2	1
118X1WTSSL	1 1/8	1	1 1/8	3/4	1
138X1WTSSL	1 3/8	1 1/4	1 3/8	1	1
158X1WTSSL	1 5/8	1 1/2	1 5/8	1.25	1
218X1WTSSL	2 1/8	2	2 1/8	-	1
258X1WTSSL	2 5/8	2 1/2	2 5/8	-	1
318X1WTSSL	3 1/8	3	3 1/8	-	1
418X1WTSSL	4 1/8	4	4 1/8	3.5	1

PRE-SLIT 1 1/2" WALL, SELF SEAL, WHITE


158X112WTSSL

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)
158X112WTSSL	1 5/8	1 1/2	1 5/8	1.25	1 1/2
218X112WTSSL	2 1/8	2	2 1/8	-	1 1/2
118X112WTSSL	1 1/8	1	1 1/8	3/4	1 1/2

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APF07834EL3

ELBOW

****More sizes available on uri.com or at your local branch.****

armacell

Part No.	Wall Thickness (In.)	Insulation ID (In.)	Color
APF07834EL3	3/4	7/8	Black
APF07812EL3	1/2	7/8	Black
APF07834EL3W	3/4	7/8	White
APF07812EL3W	1/2	7/8	White
APF05810EL3	1	5/8	Black
APF05815EL3	1 1/2	5/8	Black
APF05810EL3W	1	5/8	White
APF05815EL3W	1 1/2	5/8	White
APF03810EL3	1	3/8	Black
APF03815EL3	1 1/2	3/8	Black
APF03434EL3	3/4	3/4	Black
APF03410EL3	1	3/4	Black
APF03410EL3W	1	3/4	White
APF03415EL3W	1 1/2	3/4	White
APF01234EL3W	3/4	1/2	White
APF01212EL3W	1/2	1/2	White
APF11834EL3	3/4	1 1/8	Black
APF11812EL3	1/2	1 1/8	Black
APF11810EL3W	1	1 1/8	White
APF11815EL3W	1 1/2	1 1/8	White
APF13810EL3	1	1 3/8	Black
APF13815EL3	1 1/2	1 3/8	Black
APF15834EL3	3/4	1 5/8	Black
APF15810EL3	1	1 5/8	Black
APF15810EL3W	1	1 5/8	White
APF15815EL3W	1 1/2	1 5/8	White
APF21815EL3W	1 1/2	2 1/8	White
APF25834EL3	3/4	2 5/8	Black
APF25834EL3W	3/4	2 5/8	White
APF25815EL3W	1 1/2	2 5/8	White
APF31834EL3W	3/4	3 1/8	White
APF35815EL3	1 1/2	3 5/8	Black
APF35815EL3W	1 1/2	3 5/8	White
APF41815EL3	1 1/2	4 1/8	Black
APF41815EL3W	1 1/2	4 1/8	White


APF07834PT

P TRAP, BLACK

armacell

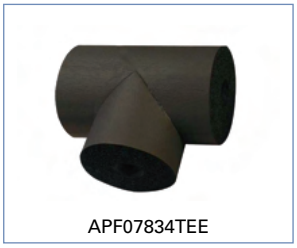
Part No.	Wall Thickness (In.)	Insulation ID (In.)	Color
APF07834PT	3/4	7/8	Black

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Part No.	Wall Thickness (In.)	Insulation ID (In.)	Color
APF07810PT	1	7/8	Black
APF07815PT	1 1/2	7/8	Black
APF07834PTW	3/4	7/8	White
APF07810PTW	1	7/8	White
APF07815PTW	1 1/2	7/8	White
APF05834PT	3/4	5/8	Black
APF05810PT	1	5/8	Black
APF05815PT	1 1/2	5/8	Black
APF05834PTW	3/4	5/8	White
APF05810PTW	1	5/8	White
APF05815PTW	1 1/2	5/8	White
APF03810PT	1	3/8	Black
APF03815PT	1 1/2	3/8	Black
APF03810PTW	1	3/8	White
APF03815PTW	1 1/2	3/8	White
APF03434PT	3/4	3/4	Black
APF03410PT	1	3/4	Black
APF03415PT	1 1/2	3/4	Black
APF03434PTW	3/4	3/4	White
APF01234PT	3/4	1/2	Black
APF03410PTW	1	3/4	White
APF01210PT	1	1/2	Black
APF03415PTW	1 1/2	3/4	White
APF01215PT	1 1/2	1/2	Black
APF01234PTW	3/4	1/2	White
APF01210PTW	1	1/2	White
APF01215PTW	1 1/2	1/2	White
APF11834PT	3/4	1 1/8	Black
APF11810PT	1	1 1/8	Black
APF11815PT	1 1/2	1 1/8	Black
APF11834PTW	3/4	1 1/8	White
APF11810PTW	1	1 1/8	White
APF11815PTW	1 1/2	1 1/8	White
APF13834PT	3/4	1 3/8	Black
APF13810PT	1	1 3/8	Black
APF13815PT	1 1/2	1 3/8	Black
APF13834PTW	3/4	1 3/8	White
APF13810PTW	1	1 3/8	White
APF13815PTW	1 1/2	1 3/8	White
APF15834PT	3/4	1 5/8	Black
APF15810PT	1	1 5/8	Black
APF15815PT	1 1/2	1 5/8	Black
APF15834PTW	3/4	1 5/8	White
APF15810PTW	1	1 5/8	White
APF15815PTW	1 1/2	1 5/8	White
APF21810PT	1	2 1/8	Black
APF21815PT	1 1/2	2 1/8	Black
APF21815PTW	1 1/2	2 1/8	White

EXPANDED ELASTOMER

TEE, BLACK



APF07834TEE

armacell

Part No.	Wall Thickness (In.)	Insulation ID (In.)	Color
APF07834TEE	3/4	7/8	Black
APF07812TEE	1/2	7/8	Black
APF07810TEE	1	7/8	Black
APF07812TEEW	1/2	7/8	White
APF07810TEEW	1	7/8	White
APF05834TEE	3/4	5/8	Black
APF05812TEE	1/2	5/8	Black
APF05810TEE	1	5/8	Black
APF05812TEEW	1/2	5/8	White
APF01212TEE	1/2	1/2	Black
APF01212TEEW	1/2	1/2	White
APF01210TEE	1	1/2	Black
APF11834TEE	3/4	1 1/8	Black
APF11812TEE	1/2	1 1/8	Black
APF11810TEE	1	1 1/8	Black
APF11812TEEW	1/2	1 1/8	White
APF11810TEEW	1	1 1/8	White
APF13812TEE	1/2	1 3/8	Black
APF13810TEE	1	1 3/8	Black
APF13812TEEW	1/2	1 3/8	White
APF13810TEEW	1	1 3/8	White
APF15834TEE	3/4	1 5/8	Black
APF15810TEE	1	1 5/8	Black
APF15810TEEW	1	1 5/8	White
APF21815TEE	1 1/2	2 1/8	Black
APF21815TEEW	1 1/2	2 1/8	White
APF25815TEE	1 1/2	2 5/8	Black
APF25815TEEW	1 1/2	2 5/8	White
APF31815TEE	1 1/2	3 1/8	Black
APF31815TEEW	1 1/2	3 1/8	White

ELBOW, BLACK



EL7834LR

AEROFLEX USA, INC.

Part No.	Wall Thickness (In.)	Insulation ID (In.)
EL7834LR	3/4	7/8
EL7812LR	1/2	7/8
EL7810LR	1	7/8
EL78112LR	1 1/2	7/8
EL78114LR	1 1/4	7/8
EL5834LR	3/4	5/8
EL5812LR	1/2	5/8
EL5810LR	1	5/8
EL58112LR	1 1/2	5/8
EL58114LR	1 1/4	5/8
EL3834LR	3/4	3/8
EL3812LR	1/2	3/8
EL3810LR	1	3/8
EL3434LR	3/4	3/4
EL3410LR	1	3/4
EL34112LR	1 1/2	3/4
EL34114LR	1 1/4	3/4
EL1234LR	3/4	1/2
EL1212LR	1/2	1/2
EL1210LR	1	1/2
EL11834LR	3/4	1 1/8
EL11810LR	1	1 1/8
EL118112LR	1 1/2	1 1/8
EL118114LR	1 1/4	1 1/8
EL13834LR	3/4	1 3/8
EL13812LR	1/2	1 3/8
EL13810LR	1	1 3/8
EL138112LR	1 1/2	1 3/8
EL138114LR	1 1/4	1 3/8
EL15834LR	3/4	1 5/8
EL15810LR	1	1 5/8
EL158112LR	1 1/2	1 5/8
EL158114LR	1 1/4	1 5/8
EL21812LR	1/2	2 1/8
EL218112LR	1 1/2	2 1/8
EL218114LR	1 1/4	2 1/8
EL258112LR	1 1/2	2 5/8
EL258114LR	1 1/4	2 5/8
EL318112LR	1 1/2	3 1/8
EL318114LR	1 1/4	3 1/8
EL418112LR	1 1/2	4 1/8

P-TRAP, BLACK



PTRAP7834S

AEROFLEX USA, INC.

Part No.	Wall Thickness (In.)	Insulation ID (In.)
PTRAP7834S	3/4	7/8
PTRAP7810S	1	7/8
PTRAP5834S	3/4	5/8
PTRAP5810S	1	5/8
PTRAP3434S	3/4	3/4
PTRAP3410S	1	3/4
PTRAP11834S	3/4	1 1/8

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Part No.	Wall Thickness (In.)	Insulation ID (In.)
PTRAP11810S	1	1 1/8
PTRAP13834S	3/4	1 3/8
PTRAP13810S	1	1 3/8
PTRAP15834S	3/4	1 5/8
PTRAP15810S	1	1 5/8
PTRAP158114S	1 1/4	1 5/8
PTRAP21834S	3/4	2 1/8
PTRAP21810S	1	2 1/8
PTRAP218114S	1 1/4	2 1/8

K-FIT™, TEE, BLACK



801T068078

K-FLEX USA

Part No.	Wall Thickness (In.)	Insulation ID (In.)
801T068078	3/4	7/8
801T048078	1/2	7/8
801T100078	1	7/8
801T148078	1 1/2	7/8
801T048058	1/2	5/8
801T068118	3/4	1 1/8
801T048118	1/2	1 1/8
801T100118	1	1 1/8
801T068138	3/4	1 3/8
801T148118	1 1/2	1 1/8
801T048138	1/2	1 3/8
801T100138	1	1 3/8
801T148138	1 1/2	1 3/8
801T100158	1	1 5/8

K-FIT™, P-TRAP



801P068078

K-FLEX USA

Part No.	Wall Thickness (In.)	Insulation ID (In.)
801P068078	3/4	7/8
801P100078	1	7/8
801P148078	1 1/2	7/8
801P068058	3/4	5/8
801P100058	1	5/8
801P148058	1 1/2	5/8
801P068118	3/4	1 1/8
801P100118	1	1 1/8
801P148118	1 1/2	1 1/8
801P068138	3/4	1 3/8
801P100138	1	1 3/8

Continued on next page

Part No.	Wall Thickness (In.)	Insulation ID (In.)
801P148138	1 1/2	1 3/8
801P068158	3/4	1 5/8
801P100158	1	1 5/8
801P148158	1 1/2	1 5/8
801P068218	3/4	2 1/8
801P100218	1	2 1/8
801P148218	1 1/2	2 1/8

K-FIT™, 90 DEGREE ELBOW, BLACK



801LRE068078

K-FLEX USA

Part No.	Wall Thickness (In.)	Insulation ID (In.)
801LRE068078	3/4	7/8
801LRE048078	1/2	7/8
801LRE100078	1	7/8
801LRE148078	1 1/2	7/8
801LRE068058	3/4	5/8
801LRE048058	1/2	5/8
801LRE100058	1	5/8
801LRE148058	1 1/2	5/8
801LRE048038	1/2	3/8
801LRE100038	1	3/8
801LRE068068	3/4	3/4
801LRE048068	1/2	3/4
801LRE100068	1	3/4
801LRE148068	1 1/2	3/4
801LRE048048	1/2	1/2
801LRE100048	1	1/2
801LRE148048	1 1/2	1/2
801LRE068118	3/4	1 1/8
801LRE048118	1/2	1 1/8
801LRE100118	1	1 1/8
801LRE148118	1 1/2	1 1/8
801LRE068138	3/4	1 3/8
801LRE048138	1/2	1 3/8
801LRE100138	1	1 3/8
801LRE148138	1 1/2	1 3/8
801LRE068158	3/4	1 5/8
801LRE100158	1	1 5/8
801LRE148158	1 1/2	1 5/8
801LRE068218	3/4	2 1/8
801LRE100218	1	2 1/8
801LRE148218	1 1/2	2 1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

EXPANDED ELASTOMER

K-FLEX CLAD®, UNSLIT 1 1/2" WALL WHITE



6RY148058WTS

K-FLEX USA

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
6RY148058WTS[1]	5/8	1/2	5/8	3/8	1 1/2	3.0
6RY148068WTS[1]	3/4	5/8	3/4	-	1 1/2	3.0
6RY148078WTS[1]	7/8	3/4	7/8	1/2	1 1/2	3.0
6RY148118WTS[1]	1 1/8	1	1 1/8	3/4	1 1/2	3.0
6RY148138WTS[1]	1 3/8	1 1/4	1 3/8	1	1 1/2	3.0
6RY148158WTS[1]	1 5/8	1 1/2	1 5/8	1 1/4	1 1/2	3.0
6RY148218WTS[1]	2 1/8	2	2 1/8	-	1 1/2	3.0
6RY148258WTS[1]	2 5/8	2 1/2	2 5/8	-	1 1/2	3.0

1 3' length



K-FLEX CLAD, UNSLIT 1" WALL WHITE



6RY100078WTS

K-FLEX USA

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
6RY100078WTS[1]	7/8	3/4	7/8	1/2	1	3.0
6RY100118WTS[1]	1 1/8	1	1 1/8	3/4	1	3.0
6RY100138WTS[1]	1 3/8	1 1/4	1 3/8	1	1	3.0
6RY100158WTS[1]	1 5/8	1 1/2	1 5/8	1 1/4	1	3.0
6RY100218WTS[1]	2 1/8	2	2 1/8	-	1	3.0
6RY100258WTS[1]	2 5/8	2 1/2	2 5/8	-	1	3.0

1 3' length

K-FLEX CLAD® AL, PRE-SLIT 1" WALL



6RYL100058AL

K-FLEX USA

Part No.	Insulation ID (In.)	Copper Tubing (In.) Nom. Size	OD Size	Iron Pipe (In.)	Wall Thickness (In.)	Length (Ft.)
6RYL100058AL[1]	5/8	1/2	5/8	3/8	1	3.0
6RYL100078AL[1]	7/8	3/4	7/8	1/2	1	3.0
6RYL100118AL[1]	1 1/8	1	1 1/8	3/4	1	3.0
6RYL100138AL[1]	1 3/8	1 1/4	1 3/8	1	1	3.0
6RYL100158AL[1]	1 5/8	1 1/2	1 5/8	1.25	1	3.0
6RYL100218AL[1]	2 1/8	2	2 1/8	-	1	3.0
6RYL100258AL[1]	2 5/8	2 1/2	2 5/8	-	1	3.0
6RYL100318AL[1]	3 1/8	3	3 1/8	-	1	3.0
6RYL100358AL[1]	3 5/8	3 1/2	3 5/8	-	1	3.0
6RYL100418AL[1]	4 1/8	4	4 1/8	-	1	3.0

1 3' length

K-FLEX CLAD® AL, PRE-SLIT 1/2" WALL



6RYL048048AL

K-FLEX USA

		Copper Tubing (In.)				
Part No.	Insulation ID (In.)	Nom. Size	OD Size	Iron Pipe (In.)	Wall Thick-ness (In.)	Length (Ft.)
6RYL048048AL[1]	1/2	3/8	1/2	1/4	1/2	3.0
6RYL048058AL[1]	5/8	1/2	5/8	3/8	1/2	3.0

1 3' length

ARMAFLEX® SHIELD FLEXIBLE FOAM INSULATION, 1/2" WALL



IPPCT07812CL

armacell

	Copper Tubing (In.)		
Part No.	Nom. Size	OD Size	Wall Thickness (In.)
IPPCT07812CL	3/4	7/8	1/2
IPPCT05812CL	1/2	5/8	1/2
IPPCT05810CL	-	5/8	1
IPPCT03812CL	1/4	3/8	1/2
IPPCT03412CL	5/8	3/4	1/2
IPPCT01412CL	-	1/4	1/2
IPPCT01212CL	3/8	1/2	1/2
IPPCT01210CL	1/4	1/2	1
IPPCT11812CL	1	1 1/8	1/2

ARMAFLEX® SHIELD FLEXIBLE FOAM INSULATION, 3/4" WALL



IPPCT03834CL

armacell

	Copper Tubing (In.)		
Part No.	Nom. Size	OD Size	Wall Thickness (In.)
IPPCT03834CL	1/4	3/8	3/4
IPPCT01234CL	3/8	1/2	3/4
IPPCT05834CL	1/2	5/8	3/4
IPPCT03434CL	5/8	3/4	3/4

ARMAFLEX® SHIELD FLEXIBLE FOAM INSULATION, 1" WALL



IPPCT03410CL

armacell

	Copper Tubing (In.)		
Part No.	Nom. Size	OD Size	Wall Thickness (In.)
IPPCT03410CL	5/8	3/4	1
IPPCT07810CL	3/4	7/8	1

ARMAFLEX® SHIELD FLEXIBLE FOAM INSULATION, 7/8" WALL



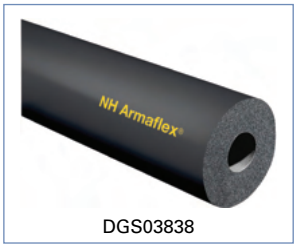
IPPCT07834CL

armacell

	Copper Tubing (In.)		
Part No.	Nom. Size	OD Size	Wall Thickness (In.)
IPPCT07834CL	3/4	7/8	3/4

POLYETHYLENE INSULATION, PLUMBING

PRE-SLIT 3/8" WALL, SELF SEAL



DGS03838

armacell

Part No.	ID (In.)	Box Qty*
DGS03838	3/8	540 Ft
DGS01238	1/2	456 Ft
DGS05838	5/8	396 Ft
DGS03438	3/4	300 Ft
DGS07838	7/8	276 Ft
DGS11838	1 1/8	222 Ft
DGS13838	1 3/8	180 Ft
DGS15838	1 5/8	138 Ft
DGS21838	2 1/8	102 Ft
DGS25838	2 5/8	72 Ft

POLYETHYLENE INSULATION, PLUMBING

PRE-SLIT 1/2" WALL, SELF SEAL


DGS03812

armacell

Part No.	ID (In.)	Box Qty*
DGS03812	3/8	414 Ft
DGS01212	1/2	336 Ft
DGS05812	5/8	300 Ft
DGS03412	3/4	264 Ft
DGS07812	7/8	240 Ft
DGS11812	1 1/8	186 Ft
DGS13812	1 3/8	150 Ft
DGS15812	1 5/8	120 Ft
DGS21812	2 1/8	84 Ft
DGS25812	2 5/8	60 Ft
DGS31812	3 1/8	48 Ft
DGS35812	3 5/8	36 Ft

PRE-SLIT 3/4" WALL, SELF SEAL


DGS03834

armacell

Part No.	ID (In.)	Box Qty*
DGS03834	3/8	228 Ft
DGS01234	1/2	210 Ft
DGS05834	5/8	180 Ft
DGS03434	3/4	162 Ft
DGS07834	7/8	150 Ft
DGS11834	1 1/8	120 Ft
DGS13834	1 3/8	96 Ft
DGS15834	1 5/8	84 Ft
DGS21834	2 1/8	54 Ft
DGS25834	2 5/8	48 Ft
DGS31834	3 1/8	36 Ft
DGS35834	3 5/8	30 Ft
DGS41834	4 1/8	24 Ft

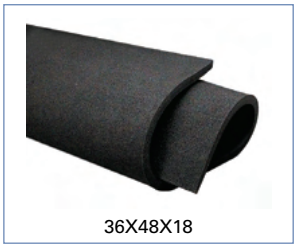
PRE-SLIT 1" WALL, SELF SEAL


DGS05810

armacell

Part No.	ID (In.)	Box Qty*
DGS05810	5/8	126 Ft
DGS07810	7/8	102 Ft
DGS11810	1 1/8	84 Ft
DGS13810	1 3/8	72 Ft
DGS15810	1 5/8	54 Ft
DGS21810	2 1/8	54 Ft
DGS25810	2 5/8	36 Ft
DGS31810	3 1/8	24 Ft
DGS35810	3 5/8	24 Ft

SHEET INSULATION


36X48X18

Sheet insulation is a flexible, elastomeric thermal insulation, black in color. It is furnished with a smooth skin on one side which forms the outer exposed insulation surface. The expanded closed-cell structure makes it an efficient insulator. Sheet insulation is certified to consistently provide actual values on these key performance criteria for mechanical system insulation: Thermal conductivity: 0.27; water vapor transmission: 0.10. As tested by ASTM E 84 Method of Test for Surface Burning Characteristics for Building Materials Sheet Insulation in thicknesses of 1/8", 1/4", 3/8", 1/2" and 3/4" (3, 6, 10, 13, and 19 mm) has a flame-spread rating of 25 or less and a smoke-developed rating of 50 or less. 1" (25 mm) has a flame-spread rating of 25 or less and a smoke-developed rating of 100 or less.

Part No.	Width (In.)	Length (In.)	Thickness (In.)	Box Qty*
36X48X18	36.00	48.00	1/8	48
36X48X14	36.00	48.00	1/4	24
36X48X38	36.00	48.00	3/8	16
36X48X12	36.00	48.00	1/2	12
36X48X34	36.00	48.00	3/4	8
36X48X1	36.00	48.00	1.00	6
36X48X112	36.00	48.00	1 1/2	4

INSULATION CEMENT



373GAL

K FLEX

374GAL is white protective coating

Part No.	Description	Container Size	Color
373GAL	Adhesive	Gallon	Blue
373QT	Adhesive	Quart	Blue
373-1/2PTBR	Adhesive, w/ brush	1/2 Pt.	Blue
373PTBR	Adhesive, w/ brush	Pint	Blue
373QTBR	Adhesive, w/ brush	Quart	Blue
374GAL	Protective Coating	Gallon	White





ADH1GP

AEROCEL

ACG is white protective coating

Part No.	Description	Container Size	Color
ADH1GP	Adhesive	Gallon	Amber
ADH1GPBLK	Adhesive	Gallon	Black
ADH1QP	Adhesive	Quart	Amber
ADH1QPBLK	Adhesive	Quart	Black
ADH12PBT	Adhesive, w/ brush	1/2 Pt.	Amber
ADH12PBTBLK	Adhesive, w/ brush	1/2 Pt.	Black
ADH1PBT	Adhesive, w/ brush	Pint	Amber
ADH1PBTBLK	Adhesive, w/ brush	Pint	Black
ACG	Protective Coating	Gallon	White



520-1/2PTBR

ARMACELL

Armstrong 520 Adhesive is an air-drying contact adhesive that is excellent for joining seams and butt joints of pipe and sheet insulations for line temperatures up to 220°F (105°C). The adhesive may also be used to apply armaflex sheet insulation to flat or curved metal surfaces that will operate at temperatures up to 180°F (82°C). 520 Adhesive may be used for bonding a variety of materials to many clean, dry surfaces. It will make a resilient and heat-resistant bond with many materials where the use of a solvent-base neoprene contact adhesive is suitable and desirable.

BR suffix to part number indicates brush applicator in can. AAD520 formulation is a toluene free, hexane free, low volatile organic compound developed to meet the requirements of the South Coast Air Quality Management District (SCAQMD) Rule 1168. The black color gives the installer a neater, cleaner, more finished installation.

Part No.	Container Size	Color
520-1/2PTBR*	1/2 Pint	Light Tan
520PTBR*	1 Pint	Light Tan
AAD520004B*	1 Pint	Black
520QT*	1 Quart	Light Tan
AAD520005STDB*	1 Quart	Black
WBQT*	1 Quart	White
AAD520005B	1 Quart	Black
520GAL*	1 Gallon	Light Tan
AAD520006B*	1 Gallon	Black
WBGAL*	1 Gallon	White

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

COUPLING


CWOS14

WITHOUT STOP

Connection ODF Sweat

Part No.	Industry No.	OD (In.)	Box Qty*
CWOS14	W01900	1/4	100
CWOS38	W01901	3/8	50
CWOS12	W01902	1/2	50
CWOS58	W01903	5/8	50
CWOS34	W01904	3/4	25
CWOS78	W01905	7/8	25
CWOS118	W01906	1 1/8	10
CWOS138	W01907	1 3/8	25
CWOS158	W01908	1 5/8	10
CWOS218	W01909	2 1/8	75
CWOS258	W01910	2 5/8	50
CWOS318	W01911	3 1/8	25
CWOS418	W01913	4 1/8	15


C18

ROLLED STOP

Connection ODF Sweat

Part No.	Industry No.	OD (In.)	Dim. A (In.)	Box Qty*
C18	W01000	1/8	3/64	100
C316	W01001	3/16	1/16	100
C14	W01003	1/4	1/16	100
C516	W10142	5/16	1/16	25
C38	W01009	3/8	1/16	50
C12	W01017	1/2	1/16	50
C58	W01022	5/8	1/16	50
C34	W01028	3/4	1/16	25
C78	W01034	7/8	1/16	25
C118	W01047	1 1/8	1/16	10
C138	W01055	1 3/8	1/16	25
C158	W01063	1 5/8	1/16	10
C218	W01072	2 1/8	1/16	75
C258	W01082	2 5/8	3/16	50
C318	W01092	3 1/8	3/16	25
C358	W10100	3 5/8	3/16	20
C418	W10107	4 1/8	3/16	15
C518	W10155	5 1/8	45732	8
C618	W10156	6 1/8	3/16	3


C1418

REDUCING

Connection ODF Sweat

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
C1418	W01005	1/4	1/8	3/16	50
C3814	W01011	3/8	1/4	3/16	50
C38516	W01010	3/8	5/16	3/32	50
C1214	W01021	1/2	1/4	3/8	50
C1238	W01019	1/2	3/8	7/32	50
C5814	W01027	5/8	1/4	23/64	100
C5838	W01025	5/8	3/8	19/64	50
C5812	W01023	5/8	1/2	1/8	50
C3438	W01031	3/4	3/8	5/16	100
C3412	W01030	3/4	1/2	3/16	100
C3458	W01029	3/4	5/8	1/4	100
C7838	W01038	7/8	3/8	3/8	50
C7812	W01037	7/8	1/2	13/32	50
C7858	W01036	7/8	5/8	19/64	50
C7834	W01035	7/8	3/4	13/64	100
C11812	W01052	1 1/8	1/2	15/32	25
C11858	W01051	1 1/8	5/8	13/32	25
C11834	W01050	1 1/8	3/4	23/64	25
C11878	W01049	1 1/8	7/8	11/32	25
C13858	W01060	1 3/8	5/8	17/32	10
C13878	W01058	1 3/8	7/8	13/32	10
C138118	W01056	1 3/8	1 1/8	9/32	10
C15858	W01069	1 5/8	5/8	25/32	10
C15878	W01067	1 5/8	7/8	19/32	10
C158118	W01065	1 5/8	1 1/8	15/32	10
C158138	W01064	1 5/8	1 3/8	5/16	10
C21858	W01079	2 1/8	5/8	1 3/32	75
C21878	W01077	2 1/8	7/8	29/32	100
C218118	W01075	2 1/8	1 1/8	13/16	100
C218138	W01074	2 1/8	1 3/8	35/64	100
C218158	W01073	2 1/8	1 5/8	15/32	100
C258118	W01086	2 5/8	1 1/8	1 3/16	50
C258138	W01085	2 5/8	1 3/8	1	50
C258158	W01084	2 5/8	1 5/8	7/8	50
C258218	W01083	2 5/8	2 1/8	19/32	50
C318158	W01095	3 1/8	1 5/8	1 1/4	25
C318218	W01094	3 1/8	2 1/8	15/16	25
C318258	W01093	3 1/8	2 5/8	1/2	25
C358318	W10101	3 5/8	3 1/8	29/64	25
C418218	W10111	4 1/8	2 1/8	1 5/8	20
C418258	W10110	4 1/8	2 5/8	1 7/16	15
C418318	W10109	4 1/8	3 1/8	29/32	20
C418358	W10108	4 1/8	3 5/8	5/8	20


FR1418

FITTING REDUCER

Connection FTG x C

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
FR1418	W01302	1/4	1/8	17/32	50
FR3814	W01306	3/8	1/4	3/8	50
FR1214	W01314	1/2	1/4	19/32	50
FR1238	W01312	1/2	3/8	5/8	50
FR5812	W01315	5/8	1/2	3/4	50
FR5838	W01317	5/8	3/8	25/32	50
FR3438	W01322	3/4	3/8	7/8	100
FR3412	W01321	3/4	1/2	29/32	100
FR3458	W01320	3/4	5/8	7/8	100
FR7812	W01327	7/8	1/2	1 1/8	50
FR7858	W01326	7/8	5/8	61/64	50
FR7834	W01325	7/8	3/4	31/32	100
FR11812	W01340	1 1/8	1/2	1 3/8	20
FR11858	W01339	1 1/8	5/8	1 11/32	25
FR11834	W01338	1 1/8	3/4	1 1/4	25
FR11878	W01337	1 1/8	7/8	1 7/64	25
FR13858	W01347	1 3/8	5/8	1 1/2	10
FR13878	W01345	1 3/8	7/8	1 11/32	10
FR138118	W01343	1 3/8	1 1/8	1 7/32	10
FR15858	W01355	1 5/8	5/8	1 3/4	10
FR15878	W01353	1 5/8	7/8	1 11/16	10
FR158118	W01351	1 5/8	1 1/8	1 17/32	10
FR158138	W01350	1 5/8	1 3/8	1 13/32	10
FR21858	W01364	2 1/8	5/8	2 5/8	100
FR21878	W01362	2 1/8	7/8	2 3/16	100
FR218118	W01360	2 1/8	1 1/8	2 1/8	100
FR218138	W01359	2 1/8	1 3/8	2 1/32	100
FR218158	W01358	2 1/8	1 5/8	1 27/32	100
FR258118	W01370	2 5/8	1 1/8	2 7/8	50
FR258138	W01369	2 5/8	1 3/8	2 15/32	50
FR258158	W01368	2 5/8	1 5/8	2 7/32	50
FR258218	W01367	2 5/8	2 1/8	2 1/32	50
FR318138	W01379	3 1/8	1 3/8	3	50
FR318158	W01378	3 1/8	1 5/8	2 21/32	50
FR318218	W01377	3 1/8	2 1/8	2 1/2	25
FR318258	W01376	3 1/8	2 5/8	2 1/32	25
FR358218	W01383	3 5/8	2 1/8	3 3/32	20
FR358258	W01382	3 5/8	2 5/8	1 39/64	20
FR358318	W01381	3 5/8	3 1/8	2 11/32	20
FR418218	W01389	4 1/8	2 1/8	3 21/32	15
FR418258	W01388	4 1/8	2 5/8	3 35/64	15
FR418318	W01387	4 1/8	3 1/8	2 31/32	15
FR418358	W01386	4 1/8	3 5/8	2 1/2	20


FB3814

FLUSH BUSHING

Connection FTG x C

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
FB3814	W01706	3/8	1/4	3/8	100
FB1214	W01714	1/2	1/4	7/16	100
FB1238	W01712	1/2	3/8	7/16	100
FB5838	W01717	5/8	3/8	9/16	100
FB5812	W01715	5/8	1/2	9/16	100
FB3438	W01722	3/4	3/8	11/16	25
FB3412	W01721	3/4	1/2	11/16	50
FB3458	W01720	3/4	5/8	11/16	50
FB7812	W01727	7/8	1/2	13/16	50
FB7858	W01726	7/8	5/8	13/16	50
FB7834	W01725	7/8	3/4	13/16	50
FB11858	W01739	1 1/8	5/8	31/32	25
FB11834	W01738	1 1/8	3/4	31/32	50
FB11878	W01737	1 1/8	7/8	31/32	50
FB13878	W01745	1 3/8	7/8	1 1/32	10
FB138118	W01743	1 3/8	1 1/8	1 1/32	10
FB158118	W01751	1 5/8	1 1/8	1 5/32	10
FB158138	W01750	1 5/8	1 3/8	1 5/32	10
FB218158	W01758	2 1/8	1 5/8	1 13/32	10

PIPE THREAD ADAPTER

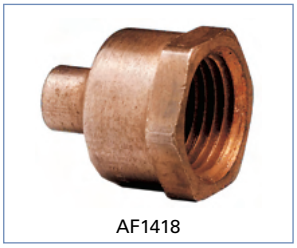

AFF3838

FEMALE FITTING

Connection FTG x FPT

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
AFF3838	W01514	3/8	3/8	1 9/32	50
AFF1214	W01526	1/2	1/4	1 1/8	50
AFF1238	W01525	1/2	3/8	1 19/64	50
AFF5838	W01532	5/8	3/8	1 19/64	50
AFF5812	W01531	5/8	1/2	1 1/2	50
AFF7812	W01547	7/8	1/2	1 11/16	50
AFF7834	W01546	7/8	3/4	1 45/64	50
AFF1181	W01563	1 1/8	1	2 5/64	25
AFF138114	W01571	1 3/8	1 1/4	2 7/32	10
AFF158112	W01579	1 5/8	1 1/2	2 15/32	10
AFF2182	W01587	2 1/8	2	2 13/32	50
AFF258212	W01596	2 5/8	2 1/2	2 53/64	25

PIPE THREAD ADAPTER


AF1418

FEMALE

Connection C x FPT

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
AF1418	W01207	1/4	1/8	9/16	100
AF1414	W01206	1/4	1/4	21/32	100
AF1438	W01205	1/4	3/8	5/8	100
AF3818	W01216	3/8	1/8	17/32	100
AF3814	W01215	3/8	1/4	5/8	50
AF3838	W01214	3/8	3/8	21/32	50
AF1214	W01226	1/2	1/4	19/32	50
AF1238	W01225	1/2	3/8	53/64	50
AF1212	W01224	1/2	1/2	1	50
AF1234	W01223	1/2	3/4	13/16	50
AF5814	W01233	5/8	1/4	1/2	50
AF5838	W01232	5/8	3/8	49/64	50
AF5812	W01231	5/8	1/2	27/32	50
AF5834	W01230	5/8	3/4	1 3/64	50
AF3412	W01239	3/4	1/2	29/32	50
AF3434	W01238	3/4	3/4	57/64	25
AF7812	W01247	7/8	1/2	1	50
AF7834	W01246	7/8	3/4	27/32	25
AF781	W01245	7/8	1	1 5/32	25
AF11812	W01265	1 1/8	1/2	23/32	25
AF11834	W01264	1 1/8	3/4	13/16	25
AF1181	W01263	1 1/8	1	31/32	25
AF1381	W01272	1 3/8	1	1	10
AF138114	W01271	1 3/8	1 1/4	1 7/32	10
AF138112	W01270	1 3/8	1 1/2	1 7/32	10
AF158114	W01280	1 5/8	1 1/4	29/32	10
AF158112	W01279	1 5/8	1 1/2	1 1/4	10
AF1582	W01278	1 5/8	2	1 7/32	60
AF2182	W01287	2 1/8	2	15/16	50
AF258212	W01296	2 5/8	2 1/2	1 3/16	25
AF3183	W01297	3 1/8	3	1 5/16	15


AMF1238

MALE FITTING

Connection FTG x MPT

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
AMF1238	W01432	1/2	3/8	1 15/64	50
AMF5838	W01431	5/8	3/8	1 7/32	50
AMF5812	W01425	5/8	1/2	1 3/8	50
AMF7812	W01447	7/8	1/2	1 27/32	50
AMF7834	W01446	7/8	3/4	1 59/64	50
AMF1181	W01463	1 1/8	1	2 1/4	25
AMF138114	W01471	1 3/8	1 1/4	2 15/32	10
AMF158112	W01479	1 5/8	1 1/2	2 19/32	10
AMF2182	W01487	2 1/8	2	2 49/64	50
AMF258212	W01496	2 5/8	2 1/2	3 3/8	20


AM1418

MALE

Connection C x MPT

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
AM1418	W01107	1/4	1/8	27/64	100
AM1414	W01106	1/4	1/4	49/64	50
AM1438	W01105	1/4	3/8	55/64	50
AM3814	W01115	3/8	1/4	21/32	50
AM3838	W01114	3/8	3/8	53/64	50
AM3812	W01113	3/8	1/2	1	50
AM1214	W01126	1/2	1/4	7/8	50
AM1238	W01125	1/2	3/8	21/32	50
AM1212	W01124	1/2	1/2	13/16	50
AM1234	W01123	1/2	3/4	1 7/64	25
AM5814	W01133	5/8	1/4	3/4	25
AM5838	W01132	5/8	3/8	41/64	50
AM5812	W01131	5/8	1/2	13/16	50
AM5834	W01130	5/8	3/4	15/16	25
AM581	W01129	5/8	1	1 29/64	25
AM3412	W01139	3/4	1/2	1 3/32	25
AM3434	W01138	3/4	3/4	1 1/64	25
AM7812	W01147	7/8	1/2	7/8	25
AM7834	W01146	7/8	3/4	29/32	50
AM781	W01145	7/8	1	1 5/32	25
AM11812	W01165	1 1/8	1/2	31/32	25
AM11834	W01164	1 1/8	3/4	59/64	10
AM1181	W01163	1 1/8	1	1 9/64	25
AM118114	W01162	1 1/8	1 1/4	1 9/16	10

Continued on next page

		OD (In.)			
Part No.	Industry No.	1	2	Dim. A (In.)	Box Qty*
AM118112	W01161	1 1/8	1 1/2	1 45/64	10
AM13834	W01173	1 3/8	3/4	31/32	10
AM1381	W01172	1 3/8	1	1	10
AM138114	W01171	1 3/8	1 1/4	1 9/32	20
AM138112	W01170	1 3/8	1 1/2	1 21/32	10
AM1581	W01181	1 5/8	1	1 3/32	10
AM158114	W01180	1 5/8	1 1/4	1 1/16	10
AM158112	W01179	1 5/8	1 1/2	1 1/4	10
AM1582	W01178	1 5/8	2	1 7/32	50
AM218114	W01189	2 1/8	1 1/4	1 5/32	50
AM218112	W01188	2 1/8	1 1/2	1 3/32	50
AM2182	W01187	2 1/8	2	1 19/64	50
AM2582	W01197	2 5/8	2	1 1/8	20
AM258212	W01196	2 5/8	2 1/2	1 25/32	20
AM3183	W01199	3 1/8	3	1 27/64	20

90 DEGREE ELBOW

SHORT

Connection C x C



E14

		OD (In.)				
Part No.	Industry No.	1	2	Dim. A (In.)	Dim. B (In.)	Box Qty*
E14	W02003	1/4	1/4	3/8	3/8	50
E38	W02009	3/8	3/8	3/8	3/8	50
E12	W02017	1/2	1/2	1/2	1/2	50
E58	W02022	5/8	5/8	19/32	19/32	100
E34	W02028	3/4	3/4	7/8	7/8	50
E78	W02034	7/8	7/8	53/64	53/64	50
E118	W02047	1 1/8	1 1/8	1 5/64	1 5/64	25
E138	W02084	1 3/8	1 3/8	1 3/32	1 3/32	10
E158	W02085	1 5/8	1 5/8	1 7/32	1 7/32	10
E218	W02086	2 1/8	2 1/8	1 9/16	1 9/16	10
E258	W02087	2 5/8	2 5/8	1 13/16	1 13/16	5
E318	W02088	3 1/8	3 1/8	2 1/16	2 1/16	5
E358	W02089	3 5/8	3 5/8	2 13/32	2 13/32	2
E418	W02090	4 1/8	4 1/8	2 23/32	9 2/3	2

SHORT REDUCING

Connection C x C



E1238

		OD (In.)				
Part No.	Industry No.	1	2	Dim. A (In.)	Dim. B (In.)	Box Qty*
E1238	W02019	1/2	3/8	9/16	7/16	50
E5838	W02025	5/8	3/8	21/32	7/16	50
E5812	W02023	5/8	1/2	5/8	1/2	50
E3458	W02029	3/4	5/8	11/16	19/32	50
E7812	W02037	7/8	1/2	15/16	5/8	50
E7858	W02036	7/8	5/8	59/64	21/32	50
E7834	W02035	7/8	3/4	29/32	7/8	50
E11858	W02051	1 1/8	5/8	1 3/16	3/4	25
E11878	W02049	1 1/8	7/8	1	7/8	25
E138118	W02056	1 3/8	1 1/8	1 7/16	1 1/8	20
E158138	W02077	1 5/8	1 3/8	1 9/64	55/64	5
E218158	W02078	2 1/8	1 5/8	1 9/16	1 13/64	2

LONG

Connection C x C



EL14

		OD (In.)				
Part No.	Industry No.	1	2	Dim. A (In.)	Dim. B (In.)	Box Qty*
EL14	W02715	1/4	1/4	1/2	1/2	50
EL516	W02710	5/16	5/16	9/16	9/16	50
EL38	W02716	3/8	3/8	3/4	3/4	50
EL12	W02717	1/2	1/2	3/4	3/4	50
EL58	W02722	5/8	5/8	7/8	7/8	50
EL34	W02728	3/4	3/4	1 1/8	1 1/8	50
EL78	W02734	7/8	7/8	1 3/16	1 3/16	25
EL118	W02747	1 1/8	1 1/8	1 1/2	1 1/2	10
EL138	W02055	1 3/8	1 3/8	1 7/8	1 7/8	10
EL158	W02063	1 5/8	1 5/8	2 1/4	2 1/4	5
EL218	W02072	2 1/8	2 1/8	2 7/8	2 7/8	5
EL258	W02082	2 5/8	2 5/8	3 21/32	3 21/32	5
EL318	W02092	3 1/8	3 1/8	4 5/8	4 5/8	2
EL358	W02093	3 5/8	3 5/8	4 29/32	4 29/32	1
EL418	W02095	4 1/8	4 1/8	5 7/8	5 7/8	1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

90 DEGREE ELBOW


EL1238

LONG REDUCING

Connection C x C

Part No.	Industry No.	OD (In.) 1	OD (In.) 2	Dim. A (In.)	Dim. B (In.)	Box Qty*
EL1238	W02719	1/2	3/8	41/64	39/64	50
EL5812	W02723	5/8	1/2	3/4	11/16	50
EL7858	W02736	7/8	5/8	7/8	7/8	50
EL7834	W02735	7/8	3/4	1 5/32	1 1/16	25
EL138118	W02756	1 3/8	1 1/8	1 5/8	1 15/32	10
EL158118	W02065	1 5/8	1 1/8	2 1/8	1 5/8	5
EL158138	W02064	1 5/8	1 3/8	1 59/64	1 7/8	5
EL218158	W02073	2 1/8	1 5/8	2 7/16	2 11/64	2
EL258218	W02083	2 5/8	2 1/8	2 31/32	2 31/32	2


EF14

SHORT FITTING

Connection FTG x C

Part No.	Industry No.	OD (In.) 1	Dim. A (In.)	Dim. B (In.)	Box Qty*
EF14	W02305	1/4	3/4	3/8	50
EF38	W02312	3/8	3/4	3/8	50
EF12	W02321	1/2	15/16	1/2	50
EF58	W02326	5/8	1 5/32	19/32	50
EF34	W02330	3/4	1 7/16	7/8	25
EF78	W02334	7/8	1 5/8	13/16	25
EF118	W02344	1 1/8	2 1/32	1 1/16	25
EF138	W02384	1 3/8	2 5/64	1 1/16	25
EF158	W02385	1 5/8	2 3/8	1 7/32	10
EF218	W02386	2 1/8	3 3/64	1 19/32	10
EF258	W02387	2 5/8	3 11/32	1 13/16	5
EF318	W02388	3 1/8	3 25/32	2 1/16	2
EF358	W02389	3 5/8	4 3/8	2 23/64	1
EF418	W02390	4 1/8	4 15/16	2 23/64	2


ELF38

LONG FITTING

Connection FTG x C

Part No.	Industry No.	OD (In.) 1	Dim. A (In.)	Dim. B (In.)	Box Qty*
ELF38	W02809	3/8	1 1/8	3/4	50
ELF12	W02817	1/2	1 3/16	3/4	50
ELF58	W02822	5/8	1 3/8	7/8	50
ELF34	W02828	3/4	1 13/16	1 1/8	25
ELF78	W02834	7/8	2	1 3/16	25
ELF118	W02847	1 1/8	2 15/32	1 1/2	10
ELF138	W02350	1 3/8	2 29/32	1 7/8	10
ELF158	W02355	1 5/8	3 7/16	2 1/4	5
ELF218	W02359	2 1/8	4 9/32	2 7/8	5
ELF258	W02363	2 5/8	5 5/32	3 21/32	5
ELF318	W02368	3 1/8	6 9/32	4 5/8	2
ELF358	W02393	3 5/8	7 7/32	5 1/4	1
ELF418	W02395	4 1/8	8 3/32	5 7/8	1

45 DEGREE ELBOW


E4514

Connection C x C

Part No.	Industry No.	OD (In.) 1	Dim. A (In.)	Box Qty*
E4514	W03005	1/4	3/16	50
E4538	W03012	3/8	3/16	50
E4512	W03021	1/2	13/64	50
E4558	W03026	5/8	17/64	50
E4534	W03030	3/4	5/16	50
E4578	W03034	7/8	23/64	25
E45118	W03044	1 1/8	15/32	25
E45138	W03050	1 3/8	7/16	10
E45158	W03055	1 5/8	1/2	10
E45218	W03059	2 1/8	5/8	10
E45258	W03063	2 5/8	1 9/16	5
E45318	W03067	3 1/8	1 21/32	2
E45358	W03070	3 5/8	1 3/4	2
E45418	W03073	4 1/8	1 15/16	1
E45618	W03075	6 1/8	2	1


E45F38

FITTING

Connection FTG x C

		OD (In.)			
Part No.	Industry No.	1	Dim. A (In.)	Dim. B (In.)	Box Qty*
E45F38	W03312	3/8	9/16	3/16	100
E45F12	W03321	1/2	21/32	13/64	100
E45F58	W03326	5/8	13/16	17/64	50
E45F34	W03330	3/4	1	5/16	50
E45F78	W03334	7/8	1 11/64	23/64	25
E45F118	W03344	1 1/8	1 7/16	15/32	25
E45F138	W03350	1 3/8	1 13/16	25/32	10
E45F158	W03355	1 5/8	2 5/64	15/16	10
E45F218	W03359	2 1/8	2 41/64	1 1/4	5
E45F258	W03363	2 5/8	3 3/32	1 9/16	2
E45F318	W03368	3 1/8	3 3/8	1 21/32	2

TEE


T316

Connection C x C x C

		OD (In.)	Dimensions (In.)		
Part No.	Industry No.	1	A	C	Box Qty*
T316	W40302	3/16	7/64	25/32	50
T14	W40306	1/4	5/32	5/32	100
T516	W40313	5/16	13/64	3/16	50
T38	W04000	3/8	13/64	3/16	50
T12	W04001	1/2	17/64	1/4	50
T58	W04006	5/8	21/64	21/64	50
T34	W04017	3/4	13/32	25/64	25
T78	W04031	7/8	15/32	29/64	25
T118	W04048	1 1/8	37/64	9/16	10
T138	W04068	1 3/8	23/32	45/64	5
T158	W04084	1 5/8	53/64	53/64	5
T218	W40102	2 1/8	1 3/32	1 3/32	5
T258	W40123	2 5/8	1 5/16	1 3/8	2
T318	W40152	3 1/8	1 19/32	1 5/8	2
T358	W40190	3 5/8	1 15/16	1 55/64	1
T418	W40200	4 1/8	2 1/8	2 1/8	1


T787858

REDUCING

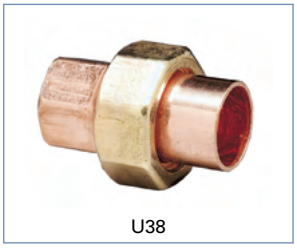
Connection C x C x C (Branch)

****More sizes available on uri.com or at your local branch.****

		OD (In.)			Dimensions (In.)			
Part No.	Industry No.	1	2	3	A	B	C	Box Qty*
T787858	W04033	7/8	7/8	5/8	21/64	21/64	35/64	25
T787834	W04032	7/8	7/8	3/4	15/32	15/32	27/32	25
T785878	W04041	7/8	5/8	7/8	15/32	23/32	29/64	25
T785858	W04043	7/8	5/8	5/8	21/64	23/32	35/64	25
T785838	W04045	7/8	5/8	3/8	21/64	11/16	15/16	25
T785834	W04042	7/8	5/8	3/4	15/32	47/64	27/32	25
T785812	W04044	7/8	5/8	1/2	21/64	5/8	55/64	25
T583838	W04013	5/8	3/8	3/8	17/64	39/64	11/16	50
T585834	W04029	5/8	5/8	3/4	25/64	25/64	53/64	25
T585812	W04007	5/8	5/8	1/2	17/64	17/64	25/64	50
T5858118	W04067	5/8	5/8	1-1/8	1 7/32	1 7/32	9/16	10
T383814	W40324	3/8	3/8	1/4	5/32	5/32	7/32	50
T383812	W04005	3/8	3/8	1/2	1/4	1/4	15/64	50
T381438	W40330	3/8	1/4	3/8	13/64	33/64	3/16	50
T345858	W04022	3/4	5/8	5/8	19/32	1 1/64	29/64	25
T345834	W04021	3/4	5/8	3/4	13/32	3/4	25/64	25
T343412	W04019	3/4	3/4	1/2	21/64	21/64	53/64	25
T141438	W40368	1/4	1/4	3/8	33/64	33/64	3/16	50
T121438	W40364	1/2	1/4	3/8	7/32	21/32	19/64	50
T123838	W04004	1/2	3/8	3/8	7/32	1/2	9/32	50
T121214	W40350	1/2	1/2	1/4	7/32	7/32	19/32	50
T1187858	W04058	1 1/8	7/8	5/8	23/64	41/64	21/32	10
T11858118	W04061	1 1/8	5/8	1-1/8	37/64	1 7/32	9/16	10
T11811878	W04049	1 1/8	1 1/8	7/8	15/32	15/32	49/64	10
T11811812	W04052	1 1/8	1 1/8	1/2	23/64	23/64	1 3/32	10
T13858138	W04083	1 3/8	5/8	1-3/8	23/32	1 5/8	11/16	5
T13813812	W04072	1 3/8	1 3/8	1/2	19/32	19/32	1 9/16	5
T15878138	W40239	1 5/8	7/8	1-3/8	23/32	1 11/16	15/16	5
T158118158	W04095	1 5/8	1 1/8	1-5/8	53/64	1 23/32	53/64	5
T158158118	W04086	1 5/8	1 5/8	1-1/8	45/64	45/64	1 19/32	5
T21858218	W40249	2 1/8	5/8	2-1/8	1 3/32	2 23/32	1 1/8	5
T218138158	W40116	2 1/8	1 3/8	1-5/8	27/32	1 27/32	1 7/32	2
T21815878	W40113	2 1/8	1 5/8	7/8	37/64	1 29/64	1 11/16	2
T258218158	W40132	2 5/8	2 1/8	1-5/8	1 5/64	2 11/64	2 7/16	4
T258258158	W40125	2 5/8	2 5/8	1-5/8	1 3/32	1 3/32	2 5/16	2
T318318118	W40147	3 1/8	3 1/8	1-1/8	23/32	23/32	1 55/64	2
T318318258	W40151	3 1/8	3 1/8	2-5/8	1 19/32	1 19/32	2 31/32	2
T418418258	W40197	4 1/8	4 1/8	2-5/8	1 19/32	1 19/32	3 13/64	1

UNION COUPLING

CONNECTION C X C


U38

Part No.	Industry No.	OD (In.)	Dim. A (In.)	Box Qty*
U38	W08001	3/8	19/32	25
U12	W08002	1/2	7/16	25
U58	W08003	5/8	15/32	25
U78	W08004	7/8	5/8	10
U118	W08005	1 1/8	29/64	10
U138	A11205	1 3/8	1/2	5
U158	A11206	1 5/8	23/32	5
U218	A11207	2 1/8	1/2	1
U258	A11216	2 5/8	1	1
U318	A11217	3 1/8	1 5/32	1

CONNECTION C X MPT


UM12

Part No.	Industry No.	OD (In.)	MPT (In.)	Dim. A (In.)	Box Qty*
UM12	A11209	1/2	1/2	1 5/8	25
UM58	A11210	5/8	1/2	1 11/16	25
UM78	A11211	7/8	3/4	1 29/32	10
UM118	A11212	1 1/8	1	2 1/8	10
UM138	A11213	1 3/8	1 1/4	2 5/32	5
UM158	A11214	1 5/8	1 1/2	2 13/32	1
UM218	A11215	2 1/8	2	2 25/32	1
UM258	A11240	2 5/8	2 1/2	3 17/32	1

TUBE CAP


TC14

Connection C

Part No.	Industry No.	OD (In.)	Dim. A (In.)	Box Qty*
TC14	W07002	1/4	1/32	50
TC38	W07004	3/8	1/32	50
TC12	W07006	1/2	1/32	50
TC58	W07007	5/8	1/32	100
TC34	W07008	3/4	3/64	50
TC78	W07009	7/8	3/64	50
TC118	W07011	1 1/8	3/64	50
TC138	W07012	1 3/8	3/64	25
TC158	W07013	1 5/8	1/16	25
TC218	W07014	2 1/8	1/16	100
TC258	W07015	2 5/8	5/64	50
TC318	W07016	3 1/8	5/64	50
TC358	W07017	3 5/8	3/32	25
TC418	W07018	4 1/8	7/64	20

RETURN BEND


RB38

Connection C x C

Part No.	Industry No.	OD (In.)	Dim. A (In.)	Dim. B (In.)	Box Qty*
RB38	W06020	3/8	1 1/2	15/16	25
RB12	W06032	1/2	1 1/2	1	50
RB58	W06051	5/8	1 9/16	1 3/32	25
RB34	W06073	3/4	2	1 3/8	10
RB78	W06092	7/8	2 1/2	1 11/16	10
RB118	W60110	1 1/8	3	2 1/16	5
RB138	W60121	1 3/8	3 3/4	2 9/16	5
RB158	W60131	1 5/8	4 1/2	3 1/6	1
RB218	W60140	2 1/8	5 1/2	3 13/16	1

P-TRAP - SUCTION LINE


PT58

CONNECTION C X C

			Dimensions (In.)			
Part No.	Industry No.	OD (In.)	A	B	C	Box Qty*
PT58	W60999	5/8	6	5 1/2	1 1/2	10
PT34	W61008	3/4	5 7/8	5 3/8	1 1/2	10
PT78	W61000	7/8	5 3/4	5 1/4	1 1/2	5
PT118	W61001	1 1/8	5 1/32	5 3/32	1 1/2	3
PT138	W61002	1 3/8	6 9/16	5 3/32	1 7/8	4
PT158	W61003	1 5/8	8 21/32	7 29/32	2 1/2	4
PT218	W61009	2 1/8	9 29/32	8 21/32	3	3


PTL58

LONG RADIUS

Connection C x C

Part No.	Industry No.	OD (In.)	Box Qty*
PTL58	W60998	5/8	30
PTL34	W60997	3/4	20
PTL78	W60996	7/8	15
PTL118	W60995	1 1/8	15
PTL138	W60994	1 3/8	5
PTL158	W60993	1 5/8	4
PTL218	W60992	2 1/8	3
PTL258	W60991	2 5/8	3

STRAP


TS14

TUBE STRAP

2-Hole

Part No.	Industry No.	OD (In.)	Box Qty*	Wgt/Ea. (Lbs.)
TS14	A01203	1/4	100	0.01
TS38	A01278	3/8	100	0.01
TS12	A01366	1/2	100	0.01
TS58	A02529	5/8	100	0.01
TS34	A01467	3/4	50	0.01
TS78	A02574	7/8	50	0.01
TS118	A02614	1 1/8	50	0.02
TS138	A02650	1 3/8	50	0.04
TS158	A02675	1 5/8	50	0.05
TS218	A02708	2 1/8	25	0.06

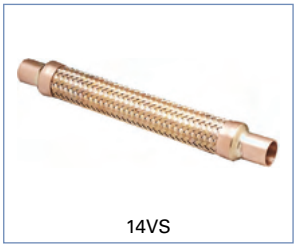

62325

COPPER STRAP

Perforated copper strap, 3/4" wide

Part No.	Length (Ft.)	Wgt/Ea. (Lbs.)
62325	25.0	1.629

VIBRATION ABSORBER


14VS

Vibration absorbers are designed for installation in the suction and discharge lines of air conditioning and refrigeration systems to dampen the transmission of compressor-induced vibration through system piping. Vibration absorbers function best when installed as close to the compressor as possible, and perpendicular to the major vibration direction. For optimum absorption of vibration, the refrigerant line should be anchored at the absorber end furthest from the vibration source.

- Flexible tubing: Corrugated red brass for 1/4"-1 5/8"; corrugated type 321 stainless steel for 2 1/8"-4 1/8"
- Wired braid: Bronze for 1/4"-1 5/8"; type 304 stainless steel for 2 1/8"-3 5/8"
- Ferrules: Copper for 1/4"-1 5/8"; type 304 stainless steel for 2 1/8"-3 5/8"
- Tube ends: Copper

IRP International Refrigeration Products

Part No.	OD (In.)	Length (In.)	Max. Operating Pressure (psi)	Burst Pressure
14VS	1/4	10.00	500.0	2,500 psi
38VS	3/8	10.00	500.0	2,500 psi
12VS	1/2	10.00	500.0	2,500 psi
58VS	5/8	9.90	500.0	2,500 psi
34VS	3/4	12.20	500.0	2,500 psi
78VS	7/8	12.50	500.0	2,500 psi
118VS	1 1/8	13.60	500.0	2,500 psi
138VS	1 3/8	14.75	500.0	2,500 psi
158VS	1 5/8	17.00	500.0	2,500 psi
218VS	2 1/8	20.70	390.0	1,950 psi
258VS	2 5/8	25.00	340.0	1,700 psi
318VS	3 1/8	28.00	300.0	1,500 psi
358VS[1]	3 5/8	34.17	175.0	525 psi
418VS[1]	4 1/8	33.38	175.0	525 psi

1 U.L. and C.S.A. approved for low side (suction side) use only.

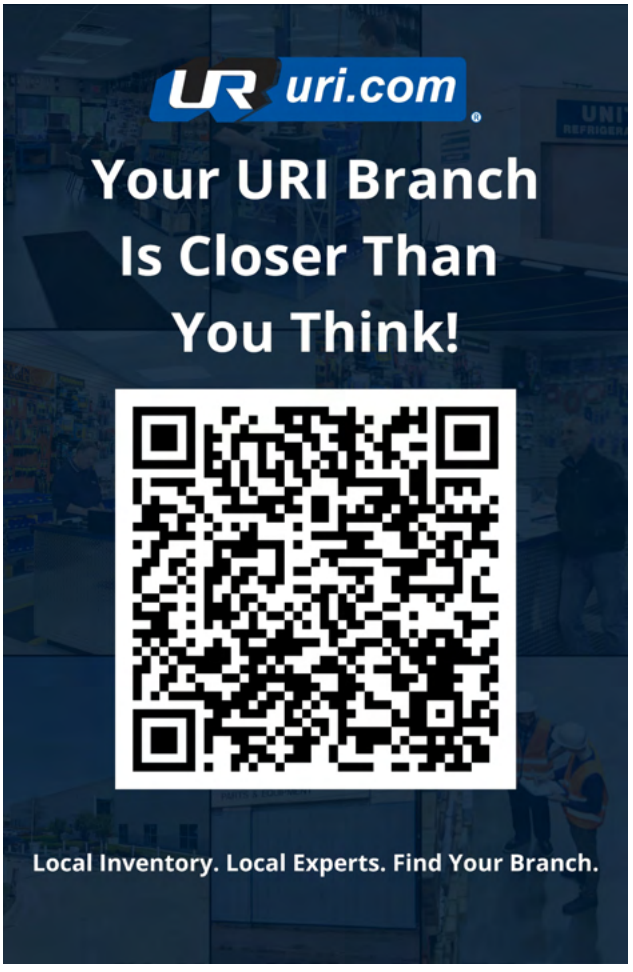
FLEXIBLE REFRIGERANT HOSE


6MF48

These flexible units are fabricated of red brass tubing having a continuous helical corrugation covered by bronze braid. Standard models have an SAE male flare connector at one end and an SAE female flare swivel of the same size on the other end.

PACKLESS INDUSTRIES

	Connection			
Part No.	Size (In.)	Type	Hose ID (In.)	Overall Length (In.)
6MF48	3/8	MFL x FFL Swivel	1/4	48
10MF48	5/8	MFL x FFL Swivel	1/2	48



QUICK CONNECT

COUPLING


SBC14

Part No.	Connection Size (In.)	OD (In.)	Length (In.)
SBC14	1/4	0.787	1.87
SBC38	3/8	0.945	1.87
SBC12	1/2	1.063	1.00
SBC58	5/8	1.181	2.34
SBC34	3/4	1.457	2.57
SBC78	7/8	1.575	2.57

FLARE FITTING


SBF14

Part No.	Connection Size (In.)	OD (In.)	Length (In.)
SBF14	1/4	0.669	1.87
SBF38	3/8	0.866	1.87
SBF12	1/2	0.945	2.34
SBF58	5/8	1.063	2.34

45 DEGREE ELBOW


SBE4514

Part No.	Connection Size (In.)	Length (In.)
SBE4514	1/4	1.87
SBE4538	3/8	1.87
SBE4512	1/2	2.34
SBE4558	5/8	2.34

90 DEGREE ELBOW


SBE14

Part No.	Connection Size (In.)	OD (In.)	Length (In.)
SBE14	1/4	0.787	1.87
SBE38	3/8	0.945	1.87
SBE12	1/2	1.063	2.34
SBE58	5/8	1.181	2.34
SBE34	3/4	1.457	2.57
SBE78	7/8	1.575	2.57

REDUCER COUPLING


SBCR3814

Part No.	Connection Size (In.)	OD (In.)	Length (In.)
SBCR3814	3/8 - 1/4	1969	1.87
SBCR1238	1/2 - 3/8	2.165	2.34
SBCR5812	5/8 - 1/2	2.362	2.34

REDUCER ELBOW


SBER3814

Part No.	Connection Size (In.)	OD (In.)	Length (In.)
SBER3814	3/8 - 1/4	1.024	1.87
SBER1238	1/2 - 3/8	1.181	2.34
SBER5812	5/8 - 1/2	1.339	2.34

TOOLS

Installation tools for SB1 quick connect fittings.


SBDC1458

Part No.	Connection Size (In.)	Length (In.)
SBDC1458	1/4 - 5/8	1.00
SBLM1458	1/4 - 5/8	1.00
SBLMDC3478	3/4 - 7/8	1.00
SBLMDC118	1 1/8	1.00

REFRIGERANT PRESS FITTING

COUPLING

RLS Refrigerant Press Fittings are specially designed to work without brazing, which automatically makes your job simpler and faster when joining copper tubes. In addition, the one piece fittings are reliably secure, leak-proof and more repeatable than brazed connections.

- Less equipment and no gas needed
- Safer conditions, no fire hazards, more environment-friendly
- No hot work permits required
- No solder-related quality issues
- More flexible access to job sites
- No need to nitrogen-purge

Parameters:

- Continuous Operating Temperature: 250°F
- O-Ring Temperature Rating: -40 to 300°F
- Maximum Rated Pressure: 700 psi
- Maximum Burst Pressure: 3000 psi
- Vacuum Pressure Capability: 20 Microns
- External Leak Rate: <0.1 Ounces of Helium per Year at Operating Pressure Range

Compatibility

- Approved Oils: Mineral Oil, POE, PVE, PAG
- Approved Tubing Materials: Copper to Copper Connections
- Approved Copper Tubing Type: Annealed Copper Tubing
- Type ACR, M, L, K Hard Copper (all sizes except 1-1/8")



PZKC4HNBR

COUPLING

Part No.	RLS Part No.	OD (In.)
PZKC4HNBR*	3011040400111	1/4
PZKC5HNBR*	3011050500111	5/16
PZKC6HNBR*	3011060600111	3/8
PZKC8HNBR*	3011080800111	1/2
PZKC10HNBR*	3011101000111	5/8
PZKC12HNBR*	3011121200111	3/4
PZKC14HNBR*	3011141400111	7/8
PZKC18HNBR*	3011181800111	1 1/8
PZKC22HNBR*	3011222200111	1 3/8



PZKRC4HNBR

SLIP COUPLING

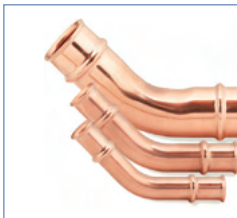
Part No.	RLS Part No.	OD (In.)
PZKRC4HNBR*	3021040400111	1/4
PZKRC6HNBR*	3021060600111	3/8
PZKRC8HNBR*	3021080800111	1/2
PZKRC10HNBR*	3021101000111	5/8
PZKRC12HNBR*	3021121200111	3/4
PZKRC14HNBR*	3021141400111	7/8
PZKRC18HNBR*	3021181800111	1 1/8
PZKRC22HNBR*	3021222200111	1 3/8



PZK90E4HNBR

90° ELBOW

Part No.	RLS Part No.	OD (In.)
PZK90E4HNBR*	3031040400111	1/4
PZK90E5HNBR*	3031050500111	5/16
PZK90E6HNBR*	3031060600111	3/8
PZK90E8HNBR*	3031080800111	1/2
PZK90E10HNBR*	3031101000111	5/8
PZK90E12HNBR*	3031121200111	3/4
PZK90E14HNBR*	3031141400111	7/8
PZK90E18HNBR*	3031181800111	1 1/8
PZK90E22HNBR*	3031222200111	1 3/8



PZK45E6HNBR

45° ELBOW

Part No.	RLS Part No.	OD (In.)
PZK45E6HNBR*	3081060600111	3/8
PZK45E8HNBR*	3081080800111	1/2
PZK45E10HNBR*	3081101000111	5/8
PZK45E12HNBR*	3081121200111	3/4
PZK45E14HNBR*	3081141400111	7/8
PZK45E18HNBR*	3081181800111	1 1/8
PZK45E22HNBR*	3081222200111	1 3/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LONG RADIUS STREET ELBOW



PZK90SE6HNBR

Part No.	RLS Part No.	OD (In.)
PZK90SE6HNBR*	3501060600111	3/8
PZK90SE8HNBR*	3501080800111	1/2
PZK90SE10HNBR*	3501101000111	5/8
PZK90SE12HNBR*	3501121200111	3/4
PZK90SE14HNBR*	3501141400111	7/8
PZK90SE18HNBR*	3501181800111	1 1/8
PZK90SE22HNBR*	3501222200111	1 3/8

P-TRAP



PZKPT8NA

Part No.	RLS Part No.	OD (In.)
PZKPT8NA*	3761080800111	1/2
PZKPT10NA*	3761101000111	5/8
PZKPT12NA*	3761121200111	3/4
PZKPT14NA*	3761141400111	7/8
PZKPT18NA*	3761181800111	1 1/8
PZKPT22NA*[1]	3761222200111	1 3/8

1 Can only be crimped with 19 kN Klauke tools or RIDGID crimping jaws.

TEE



PZKT6HNBR

Part No.	RLS Part No.	OD (In.)
PZKT6HNBR*	3091060606111	3/8
PZKT8HNBR*	3091080808111	1/2
PZKT10HNBR*	3091101010111	5/8
PZKT12HNBR*	3091121212111	3/4
PZKT14HNBR*	3091141414111	7/8
PZKT18HNBR*	3091181818111	1 1/8
PZKT22HNBR*	3091222222111	1 3/8

Y-JOINT



PZKY6NA

Part No.	RLS Part No.	OD (In.)
PZKY6NA*	3771060606111	3/8
PZKY8NA*	3771080808111	1/2
PZKY10NA*	3771101010111	5/8
PZKY12NA*	3771121212111	3/4
PZKY14NA*	3771141414111	7/8
PZKY18NA*	3771181818111	1 1/8

REDUCER



PZKR64HNBR

Part No.	RLS Part No.	Size (In.)
PZKR64HNBR*	3051060400111	3/8 to 1/4
PZKR84HNBR*	3051080400111	1/2 to 1/4
PZKR86HNBR*	3051080600111	1/2 to 3/8
PZKR104HNBR*	3051100400111	5/8 to 1/4
PZKR106HNBR*	3051100600111	5/8 to 3/8
PZKR108HNBR*	3051100800111	5/8 to 1/2
PZKR1210HNBR*	3051121000111	3/4 to 5/8
PZKR128HNBR*	3051120800111	3/4 to 1/2
PZKR148HNBR*	3051140800111	7/8 to 1/2
PZKR1410HNBR*	3051141000111	7/8 to 5/8
PZKR1412HNBR*	3051141200111	7/8 to 3/4
PZKR1810HNBR*	3051181000111	1 1/8 to 5/8
PZKR1812HNBR*	3051181200111	1 1/8 to 3/4
PZKR1814HNBR*	3051181400111	1 1/8 to 7/8
PZKR2214HNBR*	3051221400111	1 3/8 to 7/8
PZKR2218HNBR*	3051221800111	1 3/8 to 1 1/8

REDUCING BUSHING, FLARE



PZKB86HNBR

Part No.	RLS Part No.	Size (In.)
PZKB86HNBR*	3521080600111	1/2 to 3/8
PZKB108HNBR*	3521100800111	5/8 to 1/2
PZKB1814HNBR*	3521181400111	1 1/8 to 7/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT PRESS FITTING

CAP



PZKCP4HNBR

Part No.	RLS Part No.	Size (In.)
PZKCP4HNBR*	3071040000111	1/4
PZKCP5HNBR*	3071050000111	5/16
PZKCP6HNBR*	3071060000111	3/8
PZKCP8HNBR*	3071080000111	1/2
PZKCP10HNBR*	3071100000111	5/8
PZKCP12HNBR*	3071120000111	3/4
PZKCP14HNBR*	3071140000111	7/8
PZKCP18HNBR*	3071180000111	1 1/8
PZKCP22HNBR*	3071220000111	1 3/8

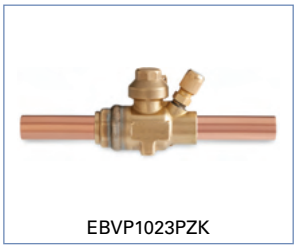
FITTING, FLARE



PZKF4HNBR

Part No.	RLS Part No.	Size (In.)
PZKF4HNBR*	3291040000111	1/4
PZKF6HNBR*	3291060000111	3/8
PZKF8HNBR*	3291080000111	1/2
PZKF10HNBR*	3291100000111	5/8
PZKF12HNBR*	3291120000111	3/4

BALL VALVE, FLARE



EBVP1023PZK

- Compatible with ZoomLockTM braze-free fittings
- ODM X ODM connections
- Dual Teflon seals surround the polished, brass ball to prevent leakage. Stem seal and stem washer provide the primary stem seal. Bottom load stem for safety
- Stainless steel stop plate ensures fully open to fully closed with a 1/4 turn
- Ball internal relief port design ensures positive shut-off in either flow direction, even during system evacuation
- Ball valves are bi-directional and may be installed in any position.
- Full refrigeration service temperature range: -40 to +300°F
- Design working pressure: 700 psig
- Suitable for use with R-134a, R-404A, R-407A, R-407C, R-407F, R-410A, R-422D, R-448A, R-449A, R-450A, R-507 and R-513A

Part No.	RLS Part No.	Connection Size (In.)	Overall Length (In.)	Flow (Cv)
EBVP1023PZK*	3791040400111	1/4	6.50	2.1
EBVP1033PZK*	3791060600111	3/8	6.50	4.3
EBVP1043PZK*	3791080800111	1/2	6.50	7.0
EBVP1053PZK*	3791101000111	5/8	6.50	13.9
EBVP1063PZK*	3791121200111	3/4	7.25	21.0
EBVP1073PZK*	3791141400111	7/8	7.25	30.3
EBVP1093PZK*	3791181800111	1 1/8	8.50	61.3

KLAUKE® COMPATIBLE PRESSING JAW



PZKJ4

Part No.	RLS Part No.	Size (In.)
PZKJ4*	399021151040	1/4
PZKJ5*	399021151050	5/16
PZKJ6*	399021151060	3/8
PZKJ8*	399021151080	1/2
PZKJ10*	399021151100	5/8
PZKJ12*	399021151120	3/4
PZKJ14*	399021151140	7/8
PZKJ18*	399021151180	1 1/8
PZKKJ4*	399021191040	1/4
PZKKJ5*	399021191050	5/16
PZKKJ6*	399021191060	3/8
PZKKJ8*	399021191080	1/2
PZKKJ10*	399021191100	5/8
PZKKJ12*	399021191120	3/4
PZKKJ14*	399021191140	7/8
PZKKJ18*	399021191180	1 1/8
PZKKJ22*	399021191220	1 3/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

RIDGID® COMPATIBLE PRESSING JAW



PZKRJ4

Part No.	RLS Part No.	Size (In.)
PZKRJ4*	399022001040	1/4
PZKRJ5*	399022001050	5/16
PZKRJ6*	399022001060	3/8
PZKRJ8*	399022001080	1/2
PZKRJ10*	399022001100	5/8
PZKRJ12*	399022001120	3/4
PZKRJ14*	399022001140	7/8
PZKRJ18*	399022001180	1 1/8
PZKRJ22*	399022001220	1 3/8

PRESSING JAW KIT



770208

Part No.	RLS Part No.	Description
770208*	399031190801	8-Piece Jaw Kit (J Series) in Carrying Case - sizes 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8
770219*	399032000801	9-Piece Jaw Kit (RJ Series) in Carrying Case - sizes 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8
770240*	399031000100	Press Fitting pressing jaw carrying case, case only - (8 empty slots)
770220*	399011000100	Press Fitting pressing jaw carrying case, case only - (9 empty slots)

JAW TOOL KIT



PZKTK190

Crimping Tool Specifications:

- Short pressing cycle, 5-7 seconds
- Compact design and 350°jaw rotation allows technician to install in tight spaces
- Lightweight design increases productivity
- Tool service indicated via imbedded LEDs, illuminates at 10,000 cycles
- Automatic piston return
- Safety feature that allows crimp cycle to be interrupted
- High-quality, powerful Makita Li-Ion technology for lasting, battery-powered pressing

Part No.	RLS Part No.	Description
PZKTK190*	399011190001	Jaw Tool Kit, 0 Jaws
PZKTK195*	399011190501	Jaw Tool Kit, 5 Jaws - sizes 3/8, 1/2, 5/8, 7/8, 1-1/8
770016*	399032000100	Replacement Klauke empty tool kit case

Continued on next page

RLS CRIMP GAUGE



PZKGNG1

Confirms the measurement of the finished crimp band diameter.

Part No.	RLS Part No.	Description
PZKGNG1*	399040306	Crimp Gauge

DIAGNOSTIC TOOL



PGA1

Adaptor tool for crimping tool diagnostics. Easily connect to PC via USB-Interface. Provides statistical evaluation of average crimping process of tool. Free downloading of Software "iPress" via www.klauke.com.

Part No.	RLS Part No.	Description
PGA1*	399040201	Klauke Diagnostic Tool

DIAGNOSTIC TOOL



PGA1

Adaptor tool for crimping tool diagnostics. Easily connect to PC via USB-Interface. Provides statistical evaluation of average crimping process of tool. Free downloading of Software "iPress" via www.klauke.com.

Part No.	RLS Part No.	Description
PGA1*	399040201	Klauke Diagnostic Tool

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLARE NUT


NS43

SHORT

Connection FFL x OD

Part No.	Connection Size (In.)
NS43	3/16
NS44	1/4
NS45	5/16
NS46	3/8
NS48	1/2
NS410	5/8
NS412	3/4
NS414	7/8


HNS44

EXTRA HEAVY SHORT

Connection FFL x OD

Part No.	Connection Size (In.)
HNS44	1/4
HNS46	3/8
HNS48	1/2
HNS410	5/8
HNS412	3/4


N44

LONG

Connection FFL x OD

Part No.	Connection Size (In.)
N44	1/4
N45	5/16
N46	3/8
N48	1/2
N410	5/8
N412	3/4


NST44

FROST FREE SHORT

Connection FFL x OD

Part No.	Connection Size (In.)
NST44	1/4
NST48	1/2
NST410	5/8


NRS443

REDUCING SHORT

Connection FFL x OD

Part No.	Connection Size (In.)
NRS443	1/4
NRS454	5/16
NRS464	3/8
NRS465	3/8
NRS486	1/2
NRS4108	5/8
NRS4128	3/4
NRS41210	3/4

CONNECTOR


U44

FLARE

Connection FFL x FFL

- Appropriate flare gaskets included

Part No.	Connection Size (In.)	Connection Size 2 (In.)
U44	1/4	1/4
U46	3/8	3/8
U48	1/2	1/2
U410	5/8	5/8


US44

SWIVEL NUT

Connection FFL x FFL

Part No.	Connection Size (In.)	Connection Size 2 (In.)
US44	1/4	1/4
US45	5/16	5/16
US46	3/8	3/8
US48	1/2	1/2
US410	5/8	5/8
US412	3/4	3/4

COUPLING


U22

MALE UNION

Connection MFL x MFL

Part No.	Description
U22	1/8″ MFL x 1/8″ MFL
U23	3/16″ MFL x 3/16″ MFL
U24	1/4″ MFL x 1/4″ MFL
U25	5/16″ MFL x 5/16″ MFL
U26	3/8″ MFL x 3/8″ MFL
U28	1/2″ MFL x 1/2″ MFL
U210	5/8″ MFL x 5/8″ MFL
U212	3/4″ MFL x 3/4″ MFL


UR243

MALE UNION, REDUCING

Connection MFL x MFL

Part No.	Description
UR243	1/4″ MFL x 3/16″ MFL
UR254	5/16″ MFL x 1/4″ MFL
UR264	3/8″ MFL x 1/4″ MFL
UR265	3/8″ MFL x 5/16″ MFL
UR284	1/2″ MFL x 1/4″ MFL
UR286	1/2″ MFL x 3/8″ MFL
UR2106	5/8″ MFL x 3/8″ MFL
UR2108	5/8″ MFL x 1/2″ MFL
UR2128	3/4″ MFL x 1/2″ MFL
UR21210	3/4″ MFL x 5/8″ MFL


UR343

FEMALE UNION, REDUCING

Connection FFL x MFL

- Appropriate flare gasket included

Part No.	Description
UR343	1/4″ FFL x 3/16″ MFL
UR346	1/4″ FFL x 3/8″ MFL
UR348	1/4″ FFL x 1/2″ MFL
UR364	3/8″ FFL x 1/4″ MFL
UR368	3/8″ FFL x 1/2″ MFL
UR3610	3/8″ FFL x 5/8″ MFL
UR384	1/2″ FFL x 1/4″ MFL
UR386	1/2″ FFL x 3/8″ MFL
UR3810	1/2″ FFL x 5/8″ MFL
UR3106	5/8″ FFL x 3/8″ MFL
UR3108	5/8″ FFL x 1/2″ MFL
UR31012	5/8″ FFL x 3/4″ MFL
UR31210	3/4″ FFL x 5/8″ MFL

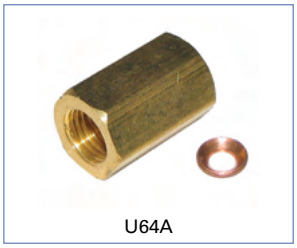
COUPLING


U13A

MALE HALF UNION

Connection MFL x MPT

Part No.	Description
U13A	3/16″ MFL x 1/8″ MPT
U14A	1/4″ MFL x 1/8″ MPT
U14B	1/4″ MFL x 1/4″ MPT
U14C	1/4″ MFL x 3/8″ MPT
U14D	1/4″ MFL x 1/2″ MPT
U15A	5/16″ MFL x 1/8″ MPT
U15B	5/16″ MFL x 1/4″ MPT
U15C	5/16″ MFL x 3/8″ MPT
U16A	3/8″ MFL x 1/8″ MPT
U16B	3/8″ MFL x 1/4″ MPT
U16C	3/8″ MFL x 3/8″ MPT
U16D	3/8″ MFL x 1/2″ MPT
U16E	3/8″ MFL x 3/4″ MPT
U18A	1/2″ MFL x 1/8″ MPT
U18B	1/2″ MFL x 1/4″ MPT
U18C	1/2″ MFL x 3/8″ MPT
U18D	1/2″ MFL x 1/2″ MPT
U18E	1/2″ MFL x 3/4″ MPT
U110B	5/8″ MFL x 1/4″ MPT
U110C	5/8″ MFL x 3/8″ MPT
U110D	5/8″ MFL x 1/2″ MPT
U110E	5/8″ MFL x 3/4″ MPT
U112C	3/4″ MFL x 3/8″ MPT
U112D	3/4″ MFL x 1/2″ MPT
U112E	3/4″ MFL x 3/4″ MPT


U64A

FEMALE HALF UNION

Connection FFL x FPT

Part No.	Description
U64A	1/4″ FFL x 1/8″ FPT
U64B	1/4″ FFL x 1/4″ FPT


U54A

PIPE

Connection FFL x MPT

- Appropriate flare gasket included

Part No.	Description
U54A	1/4″ FFL x 1/8″ MPT
U54B	1/4″ FFL x 1/4″ MPT
U56B	3/8″ FFL x 1/4″ MPT
U58C	1/2″ FFL x 3/8″ MPT
U58D	1/2″ FFL x 1/2″ MPT


U33A

FEMALE HALF UNION

Connection MFL x FPT

Part No.	Description
U33A	3/16″ MFL x 1/8″ FPT
U34A	1/4″ MFL x 1/8″ FPT
U34B	1/4″ MFL x 1/4″ FPT
U34C	1/4″ MFL x 3/8″ FPT
U34D	1/4″ MFL x 1/2″ FPT
U35A	5/16″ MFL x 1/8″ FPT
U35B	5/16″ MFL x 1/4″ FPT
U36A	3/8″ MFL x 1/8″ FPT
U36B	3/8″ MFL x 1/4″ FPT
U36C	3/8″ MFL x 3/8″ FPT
U36D	3/8″ MFL x 1/2″ FPT
U36E	3/8″ MFL x 3/4″ FPT
U38B	1/2″ MFL x 1/4″ FPT
U38C	1/2″ MFL x 3/8″ FPT
U38D	1/2″ MFL x 1/2″ FPT
U38E	1/2″ MFL x 3/4″ FPT
U310C	5/8″ MFL x 3/8″ FPT

Continued on next page

Part No.	Description
U310D	5/8″ MFL x 1/2″ FPT
U310E	5/8″ MFL x 3/4″ FPT
U312D	3/4″ MFL x 1/2″ FPT
U312E	3/4″ MFL x 3/4″ FPT



US344

SWEAT

Connection MFL x OD

Part No.	Connection Size (In.)
US344	1/4
US346	3/8
US364	3/8
US366	3/8
US368	3/8
US3610	3/8
US388	1/2
US3812	1/2
US3108	5/8
US3128	3/4
US31212	3/4



US544

SWEAT SWIVEL

Connection FFL x OD

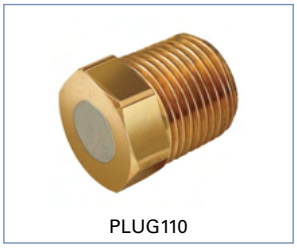
Part No.	Connection Size (In.)
US544	1/4
US566	3/8
US588	1/2
US51010	5/8
US51212	3/4



UNION154

FUSIBLE UNIONS

Part No.	Description
UNION154*	210 DEG 1/4 SAE X 1/4 MPT
UNION-184*	212 DEG 3/8 SAE X 3/8 MPT
UNION58*	212 DEG 3/8 SAE X 1/2 MPT
UNION44*	283 DEG 1/4 SAE X 1/4 MPT
UNION76*	283 DEG 3/8 SAE X 3/8 MPT



PLUG110

FUSIBLE PLUGS

Part No.	Description
PLUG110*	168 DEG 1/8″ MPT
PLUG153*	210 DEG 1/4″ MPT
PLUG148*	210 DEG 1/8″ MPT
PLUG175*	210 DEG 3/8″ MPT
PLUG421*	283 DEG 1/4″ MPT
PLUG166*	283 DEG 1/8″ MPT
PLUG337*	283 DEG 3/8″ MPT

UNION ELBOW



E23

MALE FLARE

Connection MFL x MFL

Part No.	Description
E23	3/16″ MFL x 3/16″ MFL
E24	1/4″ MFL x 1/4″ MFL
E25	5/16″ MFL x 5/16″ MFL
E26	3/8″ MFL x 3/8″ MFL
E28	1/2″ MFL x 1/2″ MFL
E210	5/8″ MFL x 5/8″ MFL
E212	3/4″ MFL x 3/4″ MFL

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UNION ELBOW


ER264

MALE FLARE, REDUCING

Connection MFL x MFL

Part No.	Description
ER264	3/4″ MFL x 1/4″ MFL
ER284	1/2″ MFL x 1/4″ MFL
ER286	1/2″ MFL x 3/8″ MFL
ER2106	5/8″ MFL x 3/8″ MFL
ER2108	5/8″ MFL x 1/2″ MFL
ER2128	3/4″ MFL x 1/2″ MFL


E444

MALE TO FEMALE FLARE

Connection MFL x FFL

Part No.	Description
E444	1/4″ MFL x 1/4″ FFL
E466	3/8″ MFL x 3/8″ FFL
E41010	5/8″ MFL x 5/8″ FFL


ES444

SWIVEL

Connection MFL x FFL

Part No.	Description
ES444	1/4″ MFL x 1/4″ FFL
ES466	3/8″ MFL x 3/8″ FFL
ES488	1/2″ MFL x 1/2″ FFL
ES41010	5/8″ MFL x 5/8″ FFL
ES41212	3/4″ MFL x 3/4″ FFL


E13A

HALF UNION

Connection MFL x MPT

Part No.	Description
E13A	3/16″ MFL x 1/8″ MPT
E14A	1/4″ MFL x 1/8″ MPT
E14B	1/4″ MFL x 1/4″ MPT
E14C	1/4″ MFL x 3/8″ MPT
E14D	1/4″ MFL x 1/2″ MPT
E15A	5/16″ MFL x 1/8″ MPT
E15B	5/16″ MFL x 1/4″ MPT
E15C	5/16″ MFL x 3/8″ MPT
E16A	3/8″ MFL x 1/8″ MPT
E16B	3/8″ MFL x 1/4″ MPT
E16C	3/8″ MFL x 3/8″ MPT
E16D	3/8″ MFL x 1/2″ MPT
E16E	3/8″ MFL x 3/4″ MPT
E18B	1/2″ MFL x 1/4″ MPT
E18C	1/2″ MFL x 3/8″ MPT
E18D	1/2″ MFL x 1/2″ MPT
E18E	1/2″ MFL x 3/4″ MPT
E110B	5/8″ MFL x 1/4″ MPT
E110C	5/8″ MFL x 3/8″ MPT
E110D	5/8″ MFL x 1/2″ MPT
E110E	5/8″ MFL x 3/4″ MPT
E112D	3/4″ MFL x 1/2″ MPT
E112E	3/4″ MFL x 3/4″ MPT


E33A

HALF UNION

Connection MFL x FPT

Part No.	Description
E33A	3/16″ MFL x 1/8″ FPT
E34A	1/4″ MFL x 1/8″ FPT
E34B	1/4″ MFL x 1/4″ FPT
E34C	1/4″ MFL x 3/8″ FPT
E35A	5/16″ MFL x 1/8″ FPT
E35B	5/16″ MFL x 1/4″ FPT
E36A	3/8″ MFL x 1/8″ FPT
E36B	3/8″ MFL x 1/4″ FPT
E36C	3/8″ MFL x 3/8″ FPT
E36D	3/8″ MFL x 1/2″ FPT
E36E	3/8″ MFL x 3/4″ FPT
E38B	1/2″ MFL x 1/4″ FPT
E38C	1/2″ MFL x 3/8″ FPT

Continued on next page

Part No.	Description
E38D	1/2″ MFL x 1/2″ FPT
E38E	1/2″ MFL x 3/4″ FPT
E310C	5/8″ MFL x 3/8″ FPT
E310D	5/8″ MFL x 1/2″ FPT
E310E	5/8″ MFL x 3/4″ FPT
E312D	3/4″ MFL x 1/2″ FPT
E312E	3/4″ MFL x 3/4″ FPT



ES244

SWEAT

Connection Size 1 = M Flare
Connection Size 2 = ODF Sweat

Part No.	Connection Size (In.)
ES244	1/4
ES266	3/8
ES288	1/2

TEE



T23

MALE FLARE

Connection MFL

Part No.	Connection Size (In.)
T23	3/16
T24	1/4
T25TEE	5/16
T26	3/8
T28	1/2
T210	5/8
T212	3/4



TR246

MALE FLARE, REDUCING

Connection MFL

Part No.	Description
TR246	1/4″ MFL run x 3/8″ MFL branch
TR264	3/8″ MFL run x 1/4″ MFL branch
TR268	3/8″ MFL run x 1/2″ MFL branch
TR284	1/2″ MFL run x 1/4″ MFL branch
TR286	1/2″ MFL run x 3/8″ MFL branch
TR2810	1/2″ MFL run x 5/8″ MFL branch
TR2106	5/8″ MFL run x 3/8″ MFL branch
TR2108	5/8″ MFL run x 1/2″ MFL branch
TR21012	5/8″ MFL run x 3/4″ MFL branch
TR21210	3/4″ MFL run x 5/8″ MFL branch



T64

FEMALE FLARE, BRANCH

Connection MFL x MFL x FFL (Branch)

- 1/4″ flare gasket included

Part No.	Description
T64	1/4″ MFL run x 1/4″ FFL branch

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEE


T14A

MALE FLARE, BRANCH

Connection MFL x MFL x MPT (Branch)

Part No.	Description
T14A	1/4″ MFL run x 1/8″ MPT branch
T14B	1/4″ MFL run x 1/4″ MPT branch
T14C	1/4″ MFL run x 3/8″ MPT branch
T15B	5/16″ MFL run x 1/4″ MPT branch
T16A	3/8″ MFL run x 1/8″ MPT branch
T16B	3/8″ MFL run x 1/4″ MPT branch
T16C	3/8″ MFL run x 3/8″ MPT branch
T16D	3/8″ MFL run x 1/2″ MPT branch
T18B	1/2″ MFL run x 1/4″ MPT branch
T18C	1/2″ MFL run x 3/8″ MPT branch
T18D	1/2″ MFL run x 1/2″ MPT branch
T110C	5/8″ MFL run x 3/8″ MPT branch
T110D	5/8″ MFL run x 1/2″ MPT branch
T112D	3/4″ MFL run x 1/2″ MPT branch
T112E	3/4″ MFL run x 3/4″ MPT branch


T54A

FEMALE BRANCH

Connection MFL x MFL x FPT (Branch)

Part No.	Description
T54A	1/4″ MFL run x 1/8″ FPT branch
T54B	1/4″ MFL run x 1/4″ FPT branch


T33A

MALE RUN

Connection MFL x MPT x MFL (Branch)

Part No.	Description
T33A	3/16″ MFL x 1/8″ MPT x 3/16″ MFL branch
T34A	1/4″ MFL x 1/8″ MPT x 1/4″ MFL branch
T34B	1/4″ MFL x 1/4″ MPT x 1/4″ MFL branch
T34C	1/4″ MFL x 3/8″ MPT x 1/4″ MFL branch
T35A	5/16″ MFL x 1/8″ MPT x 5/16″ MFL branch
T35B	5/16″ MFL x 1/4″ MPT x 5/16″ MFL branch

Continued on next page

Part No.	Description
T36B	3/8″ MFL x 1/4″ MPT x 3/8″ MFL branch
T36C	3/8″ MFL x 3/8″ MPT x 3/8″ MFL branch
T38C	1/2″ MFL x 3/8″ MPT x 1/2″ MFL branch
T38D	1/2″ MFL x 1/2″ MPT x 1/2″ MFL branch
T310C	5/8″ MFL x 3/8″ MPT x 5/8″ MFL branch
T310D	5/8″ MFL x 1/2″ MPT x 5/8″ MFL branch

CAP


N53

HEX

Connection FFL

Part No.	Connection Size (In.)
N53	3/16
N54	1/4
N55	5/16
N56	3/8
N58	1/2
N510	5/8
N512	3/4


NFT54

FINGER TIGHT

Connection FFL

- Includes rubber seal ring

Part No.	Connection Size (In.)
NFT54	1/4
NFT56	3/8

FLARE FITTING PLUG


P24

Part No.	Connection Size (In.)
P24	1/4
P26	3/8

Continued on next page

Part No.	Connection Size (In.)
P28	1/2
P210	5/8
P212	3/4

REFRIGERANT DRUM ADAPTER



K11

- Connection Size 1 (FPT) x Connection Size 2 (Male Flare)
- Supplied with gasket.
- K1 or P10A gaskets available separately (for K11, K13, K15)

Part No.	Description
K11	3/4″ FPT x 1/4″ MFL
K13	3/4″ FPT x 3/8″ MFL
K15	3/4″ FPT x 1/2″ MFL
K18	1/2″ FPT x 1/4″ MFL

GASKET



P10A

Part No.	Connection Size (In.)
P10A	3/4

FLARE NUT SEAL

COPPER FLARE BONNET



B13

Part No.	Connection Size (In.)
B13	3/16
B14	1/4
B15	5/16
B16	3/8
B18	1/2
B110	5/8
B112	3/4



B23

COPPER FLARE GASKET

Part No.	Connection Size (In.)
B23	3/16
B24	1/4
B25	5/16
B26	3/8
B28	1/2
B210	5/8
B212	3/4



SEFTKIT60PC

FLARESEAL

Sigma Engineering LLC

Part No.	Connection Size (In.)
SEFTKIT60PC	Kit
SEFTKIT3X5*	3/8 x 5/8
SEFTKIT3X4*	3/8 x 1/2
SEFTKIT2X5*	1/4 x 5/8
SEFTKIT2X3	1/4 x 3/8
SEFTKIT2X4*	1/4 x 1/2
SEFTKIT4X5*	1/2 x 5/8
SEFTBX10*	5/8
SEFTBX12*	3/4
SEFTBP12	3/4
SEFTBX06*	3/8
SEFTBX04*	1/4
SEFTBX08*	1/2

PRO PRESS FITTING


PF07014

PRS COPPER PRESS FITTINGS

Streamline® PRS Copper Press Fittings are for use in plumbing or mechanical applications. Sizes range from 1/2″ — 4″ and the fittings are designed to join ASTM B88 (Types K, L, M) hard-drawn copper tube (1/2″ — 4″) and soft copper tube (1/2″ — 1-1/4″).

- Operating pressure: 300 PSI CWP max
- Operating temperature range: -20°F — 250°F
- Approved for installations in above and below ground applications as allowed by local code.

MUELLER INDUSTRIES

Part No.	PRS Fitting #	Description
PF07014	PF07014	Cap
PF07015	PF07015	Cap
PF07016	PF07016	Cap
PF40102	PF40102	Tee
PF40123	PF40123	Tee
PF40152	PF40152	Tee
PF40106	PF40106	Reducing Tee
PF40107	PF40107	Reducing Tee
PF40128	PF40128	Reducing Tee
PF10145	PF10145	Coupling
PF10150	PF10150	Coupling
PF10151	PF10151	Coupling
PF10152	PF10152	Coupling
PF01073	PF01073	Coupling
PF01083	PF01083	Coupling
PF01095	PF01095	Coupling
PF01094	PF01094	Coupling
PF01093	PF01093	Coupling
PF02072	PF02072	Elbow
PF02082	PF02082	Elbow
PF02092	PF02092	Elbow
PF02095	PF02095	Elbow
PF02834	PF02834	90 Deg Elbow LR Small
PF02822	PF02822	90 Deg Elbow LR Small
PF02359	PF02359	90 Deg Elbow LR Small
PF02363	PF02363	90 Deg Elbow LR Large
PF02368	PF02368	90 Deg Elbow LR Large
107724PV	107-724PV	Ball Valve
107728PV	107-728PV	Ball Valve
107729PV	107-729PV	Ball Valve
107730PV	107-730PV	Ball Valve
PF01296	PF01296	Adapter-Female-Large
PF01297	PF01297	Adapter-Female-Large
PF01146	PF01146	Adapter-Male-Small
PF01187	PF01187	Adapter-Male-Small
PF01196	PF01196	Adapter-Male-Large
PF01199	PF01199	Adapter-Male-Large




ACRPTC78

ACR PRESS FITTINGS

Streamline® ACR Copper Press Fittings are for use in HVAC and VRF applications. Available in sizes ranging from 1/4" to 1-1/8" in outside diameter, the fittings are designed to join ASTM B280 and ASTM B88 hard-drawn copper tube (Types ACR, K, L) from 1/4" to 1-1/8" as well as ASTM B280 and ASTM B1003 soft (annealed) copper tube up to 7/8".

MUELLER INDUSTRIES

Part No.	RLS Part No.	Connection Size (In.)	Description
ACRPTC78	RP07009	0.875	Cap
ACRPTC58	RP07007	0.625	Cap
ACRPTC38	RP07004	0.375	Cap
ACRPTC34	RP07008	0.75	Cap
ACRPTC14	RP07002	0.25	Cap
ACRPTC12	RP07006	0.5	Cap
ACRPTC118	RP07011	1.125	Cap
ACRPTC138	RP07012	1.375	Cap
ACRPT78	RP04031	0.875	Tee
ACRPT58	RP04006	0.625	Tee
ACRPT38	RP04000	0.375	Tee
ACRPT34	RP04017	0.75	Tee
ACRPT12	RP04001	0.5	Tee
ACRPT118	RP04048	1.125	Tee
ACRPT138	RP04068	1.375	Tee
ACRPF58	RP15728	0.625	SAE Flare
ACRPF38	RP15726	0.375	SAE Flare
ACRPF34	RP15729	0.75	SAE Flare
ACRPF14	RP15725	0.25	SAE Flare
ACRPF12	RP15727	0.5	SAE Flare
ACRPC78	RP10146	0.875	Coupling
ACRPC58	RP10145	0.625	Coupling
ACRPC38	RP10143	0.375	Coupling
ACRPC34	RP10157	0.75	Coupling
ACRPC14	RP10141	0.25	Coupling
ACRPC12	RP10144	0.5	Coupling
ACRPC118	RP10147	1.125	Coupling
ACRPC138	RP10148	1.375	Coupling
ACRPCNS138	RP01956	1.375	No-Stop Coupling
ACRPC7834	RP01035	7/8 - 3/4	Reducer
ACRPC5838	RP01025	5/8 - 3/8	Reducer
ACRPC5812	RP01023	5/8 - 1/2	Reducer
ACRPC3814	RP01011	3/8 - 1/4	Reducer
ACRPC3458	RP01029	3/4 - 5/8	Reducer
ACRPC1238	RP01019	1/2 - 3/8	Reducer
ACRPC11878	RP01049	1 1/8- 7/8	Reducer
ACRPC11858	RP01050	1 1/8 - 5/8	Reducer
ACRPC11834	RP01051	1 1/8 - 3/4	Reducer

Continued on next page

Part No.	RLS Part No.	Connection Size (In.)	Description
ACRPC138118	RP01056	1 3/8 - 1 1/8	Reducer
ACRP45E78	RP03034	0.875	45 Deg LR Elbow
ACRP45E58	RP03026	0.625	45 Deg LR Elbow
ACRP45E38	RP03012	0.375	45 Deg LR Elbow
ACRP45E34	RP03030	0.75	45 Deg LR Elbow
ACRP45E14	RP03005	0.25	45 Deg LR Elbow
ACRP45E12	RP03021	0.5	45 Deg LR Elbow
ACRP45E118	RP03044	1.125	45 Deg LR Elbow
ACRP45E138	RP03050	1.375	45 Deg LR Elbow
ACRP90EL58	RP02722	0.625	90 Deg LR Elbow
ACRP90EL38	RP02716	0.375	90 Deg LR Elbow
ACRP90EL14	RP02715	0.25	90 Deg LR Elbow
ACRP90EL12	RP02717	0.5	90 Deg LR Elbow
ACRP90EL138	RP02055	1.375	90 Deg LR Elbow
ACRP90ELF78	RP02834	0.875	90 Deg ST Elbow
ACRP90ELF58	RP02822	0.625	90 Deg ST Elbow
ACRP90ELF38	RP02809	0.375	90 Deg ST Elbow
ACRP90ELF34	RP02828	0.75	90 Deg ST Elbow
ACRP90ELF14	RP02808	0.25	90 Deg ST Elbow
ACRP90ELF12	RP02817	0.5	90 Deg ST Elbow
ACRP90ELF118	RP02847	1.125	90 Deg ST Elbow
ACRP90ELF138	RP02350	1.375	90 Deg ST Elbow
ACRP90EL78	RP02734	0.875	Degree LR Elbow


2473-20

STREAMLINE ACR PRESS JAWS

Streamline ACR Press Jaws and Ring change the game in refrigerant line installations, offering you a flame-free, efficient alternative to traditional brazing. The jaws and ring unlock productivity for HVAC system installers, eliminating nitrogen purges, combustible gases, and expensive silver solder necessary for traditional pipe connection methods.

MUELLER INDUSTRIES

Part No.	RLS Part No.	Description
2473-20	2473-20	M12 FORCE LOGIC Press Tool
2461M	49-16-2461M	M12 ACR 6-Piece Jaw Kit (1/4", 3/8", 1/2", 5/8", 3/4" and 7/8")
292220	2922-20	M18 Press Tool with One Key
22M	2922-22M	M18 FORCE LOGIC Press Tool w/6 ACR Jaws
2661M	49-16-2661M	M18 ACR 6-Piece Jaw Kit (1/4", 3/8', 1/2", 5/8", 3/4" and 7/8")
2656M	49-16-2656M	M18 7/8" ACR Press Standard Jaw
2654M	49-16-2654M	M18 5/8" ACR Press Standard Jaw
2652M	49-16-2652M	M18 3/8" ACR Press Standard Jaw
2655M	49-16-2655M	M18 3/4" ACR Press Standard Jaw
2650M	49-16-2650M	M18 1/4" ACR Press Standard Jaw
2653M	49-16-2653M	M18 1/2" ACR Press Standard Jaw
2657M[1]	49-16-2657M	M18 1 1/8" ACR Press Standard Jaw
2658M[1]	49-16-2658M	M18 1 3/8" ACR Press Standard Jaw
2659[1]	49-16-2659	M18 1 3/8" Ring Jaw ACR Press Standard Jaw

1 Combination of Jaw and Ring Jaw needed for installations 1-1/8"+

ZOOMLOCK



MZKCP14HNBR

ZOOMLOCK

ZoomLock® MAX fittings, designed for the air conditioning and refrigeration markets, allow contractors to make secure leak-free connections in seconds. It means less time on the job and more money in the contractor's pocket. ZoomLock MAX fittings provide clean, leak-proof connections for refrigerant lines up to 700 psi. By eliminating concerns about gas and flames, ZoomLock MAX fittings offer more flexibility in where and when you can work, plus there's no need to nitrogen-purge the lines.

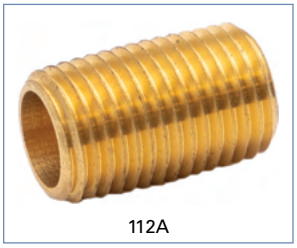
- Hermetically sealed packaging for debris-free fittings
- Hard, robust copper fittings made from refrigerant grade copper
- Proven three-point press technology providing a leak-free and secure joint
- No more crimp gauge needed—connect the fitting with one complete cycle
- Jaws available for most professional crimping tool brands, both large and compact

Part No.	RLS Part No.	Connection Size (In.)	Description
MZKCP14HNBR	870906	7/8	Cap
MZKCP10HNBR	870904	5/8	Cap
MZKCP6HNBR	870902	3/8	Cap
MZKCP4HNBR	870900	1/4	Cap
MZKCP8HNBR	870903	1/2	Cap
MZKCP18HNBR	870907	1 1/8	Cap
MZKCP22HNBR	870908	1 3/8	Cap
MZKT14HNBR	870706	7/8	Tee
MZKT10HNBR	870704	5/8	Tee
MZKT6HNBR	870702	3/8	Tee
MZKT12HNBR	870705	3/4	Tee
MZKT4HNBR	870701	1/4	Tee
MZKT8HNBR	870703	1/2	Tee
MZKT18HNBR	870707	1 1/8	Tee
MZKT22HNBR	870708	1 3/8	Tee
MZKPT12NA	771205	3/4	P-Trap
MZKPT14NA	771206	7/8	P-Trap
MZKF10HNBR	871004	5/8	SAE Flare
MZKF6HNBR	871002	3/8	SAE Flare
MZKF12HNBR	871005	3/4	SAE Flare
MZKF4HNBR	871000	1/4	SAE Flare
MZKF8HNBR	871003	1/2	SAE Flare
MZKC14HNBR	870506	7/8	Coupling
MZKC10HNBR	870510	5/8	Coupling
MZKC6HNBR	870509	3/8	Coupling
MZKC12HNBR	870505	3/4	Coupling
MZKC4HNBR	870508	1/4	Coupling

Continued on next page

Part No.	RLS Part No.	Connection Size (In.)	Description
MZKC8HNBR	870503	1/2	Coupling
MZKC18HNBR	870507	1 1/8	Coupling
MZKC22HNBR	870511	1 3/8	Coupling
MZKRC6HNBR	870552	3/8	Slip Coupling
MZKR1814HNBR	870807	7/8 - 1 1/8	Reducer
MZKR1410HNBR	870804	5/8 - 7/8	Reducer
MZKR1210HNBR	870803	5/8 - 3/4	Reducer
MZKR1810HNBR	870814	5/8 - 1 1/8	Reducer
MZKR106HNBR	870810	3/8 - 5/8	Reducer
MZKR86HNBR	870801	3/8 - 1/2	Reducer
MZKR1412HNBR	870805	3/4 - 7/8	Reducer
MZKR1812HNBR	870806	3/4 - 1 1/8	Reducer
MZKR104HNBR	870809	1/4 - 5/8	Reducer
MZKR64HNBR	870800	1/4 - 3/8	Reducer
MZKR84HNBR	870808	1/4 - 1/2	Reducer
MZKR148HNBR	870812	1/2 - 7/8	Reducer
MZKR108HNBR	870802	1/2 - 5/8	Reducer
MZKR128HNBR	870811	1/2 - 3/4	Reducer
MZK45E14HNBR	871406	7/8	45 Deg Elbow
MZK45E10HNBR	871404	5/8	45 Deg Elbow
MZK45E6HNBR	871402	3/8	45 Deg Elbow
MZK45E12HNBR	871405	3/4	45 Deg Elbow
MZK45E4HNBR	871401	1/4	45 Deg Elbow
MZK45E8HNBR	871403	1/2	45 Deg Elbow
MZK45E18HNBR	871407	1 1/8	45 Deg Elbow
MZK45E22HNBR	871399	1 3/8	45 Deg Elbow
MZK90E14HNBR	870606	7/8	90 Deg Elbow
MZK90E10HNBR	870604	5/8	90 Deg Elbow
MZK90E6HNBR	870602	3/8	90 Deg Elbow
MZK90E12HNBR	870605	3/4	90 Deg Elbow
MZK90E18HNBR	870607	1 1/8	90 Deg Elbow
MZK90E22HNBR	870608	1 3/8	90 Deg Elbow
MZK90E4HNBR	870600	1/4	90 Deg Elbow
MZK90E8HNBR	870603	1/2	90 Deg Elbow
MZK90E14LRHNBR	871611	7/8	45 Deg LR Elbow
MZK90E10LRHNBR	871614	5/8	45 Deg LR Elbow
MZK90E12LRHNBR	871610	3/4	45 Deg LR Elbow
MZK90E8LRHNBR	871613	1/2	45 Deg LR Elbow
MZK90E18LRHNBR	871612	1 1/8	45 Deg LR Elbow
MZK90E22LRHNBR	871615	1 3/8	45 Deg LR Elbow
MZK90SE14HNBR	871306	7/8	90 Deg Street Elbow
MZK90SE10HNBR	871304	5/8	90 Deg Street Elbow
MZK90SE6HNBR	871302	3/8	90 Deg Street Elbow
MZK90SE12HNBR	871305	3/4	90 Deg Street Elbow
MZK90SE8HNBR	871303	1/2	90 Deg Street Elbow
MZK90SE18HNBR	871307	1 1/8	90 Deg Street Elbow
MZK90SE22HNBR	871308	1 3/8	90 Deg Street Elbow
MZK19KN7JAWS	871410	Assorted	Max 19KN ROTHENBERGER 7 Piece Jaw Kit

PIPE NIPPLE



112A

CLOSE

Connection MPT x MPT

Part No.	Connection Size (In.)
112A	1/8
112B	1/4
112C	3/8
112D	1/2
112E	3/4
112F	1



113C15

LONG

Connection MPT

Part No.	Connection Size (In.)
113C15	3/8
113C2	3/8
113C25	3/8
113C3	3/8
113C35	3/8
113C4	3/8
113C45	3/8
113C5	3/8
113C55	3/8
113C6	3/8
113E15	3/4
113E2	3/4
113E25	3/4
113E3	3/4
113E35	3/4
113E4	3/4
113E45	3/4
113E5	3/4
113E55	3/4
113E6	3/4
113A15	1/8
113A2	1/8
113A25	1/8
113A3	1/8
113A35	1/8
113A4	1/8

Continued on next page

Part No.	Connection Size (In.)
113A45	1/8
113A5	1/8
113A55	1/8
113A6	1/8
113B15	1/4
113B2	1/4
113B25	1/4
113B3	1/4
113B35	1/4
113B4	1/4
113B45	1/4
113B5	1/4
113B55	1/4
113B6	1/4
113D15	1/2
113D2	1/2
113D25	1/2
113D3	1/2
113D35	1/2
113D4	1/2
113D45	1/2
113D5	1/2
113D55	1/2
113D6	1/2
113F15	1
113F25	1



U10A

HEX

Connection MPT

Part No.	Connection Size (In.)
U10A	1/8
U10B	1/4
U10C	3/8
U10D	1/2
U10E	3/4

COUPLING

HEX

Connection FPT x FPT

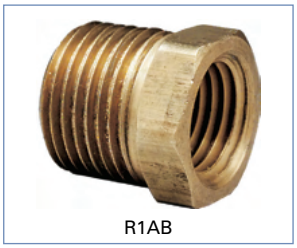


C103A

Part No.	Connection Size (In.)
C103A	1/8
C103B	1/4
C103C	3/8
C103D	1/2
C103E	3/4

BUSHING FORGED

Connection MPT x FPT



R1AB

Part No.	MPT (In.)	fPT (In.)
R1AB	1/8	1/4
R1BA	1/4	1/8
R1CA	3/8	1/8
R1CB	3/8	1/4
R1DA	1/2	1/8
R1DB	1/2	1/4
R1DC	1/2	3/8
R1EA	3/4	1/8
R1EB	3/4	1/4
R1EC	3/4	3/8
R1ED	3/4	1/2
R1FB	1	1/4
R1FC	1	3/8
R1FD	1	1/2
R1FE	1	3/4

BUSHING CAST

Connection MPT x FPT



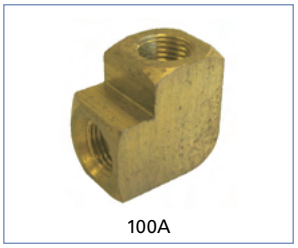
C110FD

Part No.	MPT (In.)	fPT (In.)
C110FD	1	1/2
C110FE	1	3/4
C110GE	1 1/4	3/4
C110GF	1 1/4	1
C110HF	1 1/2	1
C110HG	1 1/2	1 1/4
C110IH	2	1 1/2

ELBOW

BRASS ELBOW

Connection FPT



100A

Part No.	Connection Size (In.)
100A	1/8
100B	1/4
100C	3/8
100D	1/2
100E	3/4
100F	1

STREET ELBOW

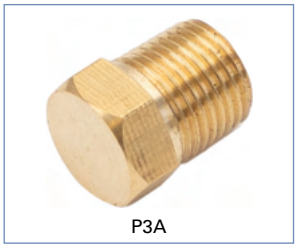
Pipe Thread



R11612

Part No.	Connection Size (In.)
R11612	3/4
R11616	1

PIPE PLUG


P3A

NON-FUSIBLE

Connection MPT

Part No.	MPT (In.)
P3A	1/8
P3B	1/4
P3C	3/8
P3D	1/2
P3E	3/4
P3F	1
P3G	1 1/4
P3H	1 1/2
P3I	2


FPA165

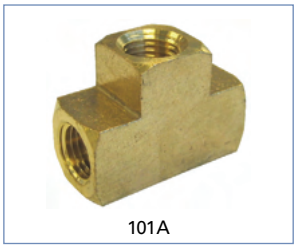
FUSIBLE

Connection MPT

- Vent to atmosphere

Part No.	Description	MPT (In.)
FPA165	Relief Temperature 165°F	1/8
FPB165	Relief Temperature 165°F	1/4
FPC165	Relief Temperature 165°F	3/8
FPB212	Relief Temperature 212°F	1/4
FPC212	Relief Temperature 212°F	3/8
FPA280	Relief Temperature 280°F	1/8
FPB280	Relief Temperature 280°F	1/4
FPC280	Relief Temperature 280°F	3/8

TEE


101A

Connection FPT

Part No.	Connection Size (In.)
101A	1/8
101B	1/4
101C	3/8
101D	1/2
101E	3/4

HOSE BARB FITTING


3434BARB

HOSE BARB TO MALE PIPE

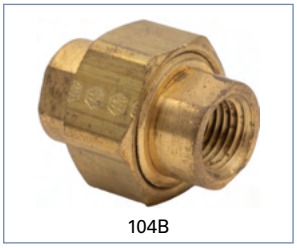
Part No.	Connection Size (In.)
3434BARB	3/4
11BARB	1


3434BARB90

HOSE BARB 90° ELBOW TO MALE PIPE

Part No.	Connection Size (In.)
3434BARB90	3/4
11BARB90	1

COMPRESSION


104B

UNION

Connection FPT x FPT

Part No.	Connection Size (In.)
104B	1/4
104C	3/8
104D	1/2
104E	3/4


61F2

NUT

Connection FCOMP x OD

Part No.	Connection Size (In.)
61F2	1/8
61F3	3/16
61F4	1/4
61F5	5/16
61F6	3/8
61F8	1/2
61F10	5/8
61F12	3/4


60F2

SLEEVE

Part No.	Size (In.)
60F2	1/8
60F3	3/16
60F4	1/4
60F5	5/16
60F6	3/8
60F8	1/2
60F10	5/8

Continued on next page

Part No.	Size (In.)
60F12	3/4
60F14	7/8


62F2

COUPLING

Connection OD

Part No.	Connection Size (In.)
62F2	1/8
62F3	3/16
62F4	1/4
62F5	5/16
62F6	3/8
62F8	1/2
62F10	5/8
62F12	3/4
62F14	7/8


62F64

REDUCING COUPLING

Connection OD x OD

Part No.	Connection Size (In.)
62F64	3/8
62R86	1/2


65F2

ELBOW

Connection FCOMP

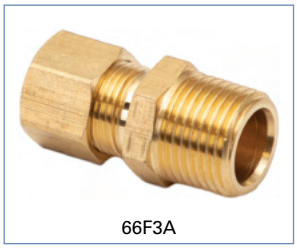
Part No.	Connection Size (In.)
65F2	1/8
65F4	1/4
65F5	5/16
65F6	3/8
65F8	1/2
65F10	5/8
65F12	3/4


68F2A

HALF UNION MALE PIPE

Connection OD x MPT

Part No.	Connection Size (In.)
68F2A	1/8
68F3A	1/8
68F4A	1/8
68F4B	1/4
68F4C	3/8
68F4D	1/2
68F5B	1/4
68F6A	1/8
68F6B	1/4
68F6C	3/8
68F6D	1/2
68F8B	1/4
68F8C	3/8
68F8D	1/2
68F8E	3/4
68F10C	3/8
68F10D	1/2
68F10E	3/4
68F12D	1/2
68F12E	3/4


66F3A

HALF UNION FEMALE PIPE

Connection OD x FPT

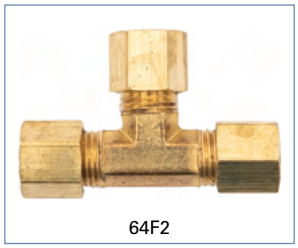
Part No.	Connection Size (In.)
66F3A	1/8
66F4A	1/8
66F4B	1/4
66F4C	3/8
66F5B	1/4
66F6B	1/4
66F6C	3/8
66F6D	1/2
66F8C	3/8
66F8D	1/2
66F10C	3/8
66F10D	1/2


69F4A

HALF UNION ELBOW

Connection OD x MPT

Part No.	Connection Size (In.)
69F4A	1/8
69F4B	1/4
69F4C	3/8
69F4D	1/2
69F5B	1/4
69F6A	1/8
69F6B	1/4
69F6C	3/8
69F6D	1/2
69F8C	3/8
69F8D	1/2
69F10D	1/2


64F2

TEE

Connection OD

Part No.	Connection Size (In.)
64F2	1/8
64F3	3/16
64F4	1/4
64F5	5/16
64F6	3/8
64F8	1/2
64F10	5/8
64F12	3/4


61S4

CAP

Connection FCOMP

Part No.	Connection Size (In.)
61S4	1/4
61S6	3/8

COUPLING


BFU532

Connection Barb x Barb

	Connection Size (In.)	
Part No.	Barb 1	Barb 2
BFU532*	5/32	5/32
BFU14*	1/4	1/4
BFU38	3/8	3/8
BFU12	1/2	1/2
BFU14532	1/4	5/32
BFU1438*	1/4	3/8
BFU3812	3/8	1/2


BFBU14

BULKHEAD

Connection Barb x Barb

	Connection Size (In.)
Part No.	Barb 1
BFBU14	1/4
BFBU38	3/8


BFMC1418

HALF UNION

Connection Barb x MPT

	Connection Size (In.)	
Part No.	Barb 1	MPT
BFMC1418	1/4	1/8
BFMC3818	3/8	1/8


BFUC14

COMPRESSION UNION

Connection Barb x Compression

	Connection Size (In.)
Part No.	Barb 1
BFUC14	1/4


BFBUC14

BULKHEAD

Connection Barb x Compression

	Connection Size (In.)
Part No.	Barb 1
BFBUC14*	1/4
BFBUC38	3/8

90 DEGREE ELBOW


BFUE532

	Connection Size (In.)	
Part No.	Barb 1	Barb 2
BFUE532*	5/32	5/32
BFUE14*	1/4	1/4
BFUE38	3/8	3/8
BFUE12	1/2	1/2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


BFME1418

HALF UNION

Connection Barb x MPT

	Connection Size (In.)	
Part No.	Barb 1	MPT
BFME1418	1/4	1/8
BFME3818	3/8	1/8


BFFE1418

HALF UNION, FEMALE

Connection Barb x FPT

	Connection Size (In.)	
Part No.	Barb 1	FPT
BFFE1418	1/4	1/8

TEE


BFMBT1418

MALE BRANCH

Connection Barb x Barb x MPT (Branch)

	Connection Size (In.)		
Part No.	Barb 1	Barb 2	MPT
BFMBT1418	1/4	1/4	1/8


BFT532

CONNECTION BARB X BARB (BRANCH)

Connection Barb x Barb (Branch)

	Connection Size (In.)		
Part No.	Barb 1	Barb 2	Barb Branch
BFT532*	5/32	5/32	5/32
BFT14	1/4	1/4	1/4
BFT38*	3/8	3/8	3/8
BFT12*	1/2	1/2	1/2
BFT1414532	1/4	1/4	5/32
BFT3838532	3/8	3/8	5/32
BFT383814*	3/8	3/8	1/4
BFT121214*	1/2	1/2	1/4
BFT121238	1/2	1/2	3/8


BFFBT1418

FEMALE BRANCH

Connection Barb x Barb x FPT (Branch)

	Connection Size (In.)		
Part No.	Barb 1	Barb 2	FPT
BFFBT1418*	1/4	1/4	1/8


BFAT1418

ADAPTER, DROPEAR

Connection Barb x Barb x FPT (Branch)

	Connection Size (In.)		
Part No.	Barb 1	Barb 2	FPT
BFAT1418	1/4	1/4	1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEE



BFGT14

GAUGE

Connection Barb x MPT x FPT (Branch)

	Connection Size (In.)		
Part No.	Barb 1	MPT	FPT
BFGT14	1/4	1/4	1/8



BFF14

DELRIN FERRULE

Part No.	Poly Tube Size OD (In.)
BFF14	1/4
BFF38	3/8
BFF12	1/2

PLUG

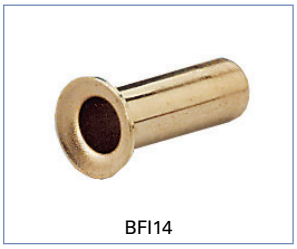


BFPA14532

CONNECTION BARB

	Connection Size (In.)	
Part No.	Barb 1	Barb 2
BFPA14532	5/32	5/32
BFP38	3/8	3/8
BFP12	1/2	1/2

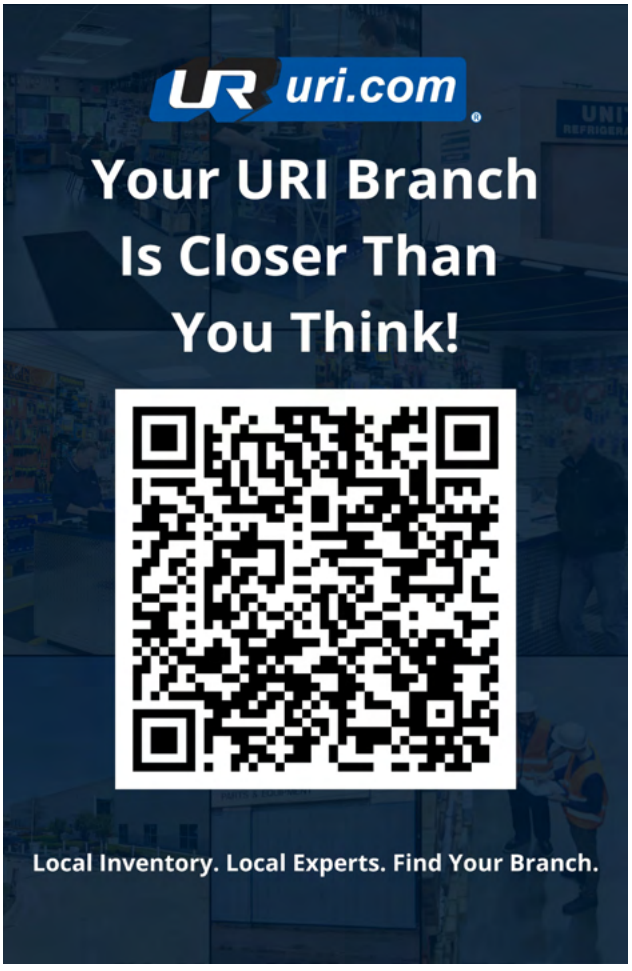
POLY TUBE INSERT



BFI14

INSERT

Part No.	Poly Tube Size OD (In.)
BFI14	1/4
BFI38	3/8
BFI12	1/2



BACK IRON PIPE


12BIP

Produced by the continuous weld process in 1/8" to 4" N.P.S. The 1/8" to 4" sizes are produced to ASTM A-53, A-501 and A-589 Type II, API 5L and Federal Specification WW-P404. ASTM A-53-F. Black pipe is manufactured for ordinary uses in steam, water, gas and air lines.

- Threaded and coupled

Part No.	Nominal Pipe Size (In.)	OD (In.)	Wall Thick-ness (In.)	Length (Ft.)	Weight/ Length (Lbs.)
12BIP10	1/2	0.840	0.109	10.0	8.5
12BIP	1/2	0.840	0.109	21.0	17.85
34BIP10	3/4	1.050	0.113	10.0	11.4
34BIP	3/4	1.050	0.113	21.0	23.73
1BIP10	1	1.315	0.133	10.0	22.7
1BIP	1	1.315	0.133	21.0	35.28
114BIP	1 1/4	1.660	0.14	21.0	47.88
112BIP	1 1/2	1.900	0.145	21.0	57.33
2BIP	2	2.375	0.154	21.0	77.28
212BIP	2 1/2	2.875	0.203	21.0	121.65

COUPLING


C18BIP

Connection FPT x FPT

	Connection	
Part No.	FPT (In.)	Box Qty*
C18BIP	1/8	70
C14BIP	1/4	40
C38BIP	3/8	60
C12BIP	1/2	40
C34BIP	3/4	50
C1BIP	1	25
C114BIP	1 1/4	16
C112BIP	1 1/2	18
C2BIP	2	12
C212BIP	2 1/2	8
C3BIP	3	8


RC1418BIP

REDUCING

Connection FPT x FPT

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
RC1418BIP	1/4	1/8	50
RC3818BIP	3/8	1/8	35
RC3814BIP	3/8	1/4	30
RC1214BIP	1/2	1/4	50
RC1238BIP	1/2	3/8	40
RC3438BIP	3/4	3/8	30
RC3412BIP	3/4	1/2	60
RC112BIP	1	1/2	30
RC134BIP	1	3/4	25
RC11412BIP	1 1/4	1/2	25
RC11434BIP	1 1/4	3/4	25
RC1141BIP	1 1/4	1	15
RC11212BIP	1 1/2	1/2	20
RC11234BIP	1 1/2	3/4	15
RC1121BIP	1 1/2	1	25
RC112114BIP	1 1/2	1 1/4	12
RC212BIP	2	1/2	14
RC234BIP	2	3/4	14
RC21BIP	2	1	14
RC2114BIP	2	1 1/4	14
RC2112BIP	2	1 1/2	20
RC2122BIP	2 1/2	2	20


RB1418BIP

REDUCING BUSHING

Connection MPT x FPT

	Connection (In.)		
Part No.	MPT	FPT	Box Qty*
RB1418BIP	1/4	1/8	120
RB3814BIP	3/8	1/4	75
RB1214BIP	1/2	1/4	60
RB1238BIP	1/2	3/8	60
RB3438BIP	3/4	3/8	50
RB3412BIP	3/4	1/2	50
RB112BIP	1	1/2	50
RB134BIP	1	3/4	50
RB11412BIP	1 1/4	1/2	30
RB11434BIP	1 1/4	3/4	30
RB1141BIP	1 1/4	1	30
RB11212BIP	1 1/2	1/2	25

Continued on next page

BLACK IRON PIPE

COUPLING

	Connection (In.)		
Part No.	MPT	FPT	Box Qty*
RB11234BIP	1 1/2	3/4	25
RB1121BIP	1 1/2	1	25
RB112114BIP	1 1/2	1 1/4	25
RB212BIP	2	1/2	20
RB21BIP	2	1	20
RB2114BIP	2	1 1/4	20
RB2112BIP	2	1 1/2	20
RB2122BIP	2 1/2	2	15

PIPE NIPPLE



CN18BIP

CLOSE

Connection MPT x MPT

Part No.	MPT (In.)	Length (In.)	Box Qty*
CN18BIP	1/8	0.88	25
CN14BIP	1/4	0.88	25
CN38BIP	3/8	1.00	25
CN12BIP	1/2	1.30	25
CN34BIP	3/4	1.50	25
CN1BIP	1	1.50	25
CN114BIP	1 1/4	1.80	5
CN112BIP	1 1/2	2.00	5
CN2BIP	2	2.00	5



34RUN

RUN

Connection MPT x MPT
Assortment of pipe nipples - close through 6" length.

Part No.	Connection Size (In.)	Nb. Of Pieces	Length (In.)
34RUN	3/4	11	6.20
12RUN	1/2	11	6.10
1RUN	1	10	5.50
BN634[1]	3/4	66	13.00
BN612[1]	1/2	66	10.40

1 assortment of 1-1/2" through 8" in 1/2" increments



112N12BIP

LONG

****More sizes available on uri.com or at your local branch.****

Part No.	Connection Size (In.)	Length (In.)	Box Qty*
112N12BIP	1/2	2.00	25
112N38BIP	3/8	1.50	25
10N34BIP	3/4	10.00	25
12N2BIP	2	11.50	5
18N2BIP	2	0.00	1
2N14BIP	1/4	2.00	25
212N112BIP	1 1/2	2.50	5
212N34BIP	3/4	12.00	25
24N34BIP	3/4	24.00	1
3N112BIP	1 1/2	3.00	5
3N14BIP	1/4	3.00	25
312N12BIP	1/2	3.50	25
312N38BIP	3/8	3.50	25
30N34BIP	3/4	0.00	1
4N2BIP	2	4.00	5
412N18BIP	1/8	4.50	25
48N1BIP	1	0.00	1
5N38BIP	3/8	5.00	25
512N2BIP	2	5.50	5
6N1BIP	1	5.80	25
60N12BIP	1/2	60.00	1
8N112BIP	1 1/2	8.00	5
8N34BIP	3/4	7.70	25

90 DEGREE ELBOW



E18BIP

BLACK IRON

Connection FPT x FPT

	Connection	
Part No.	Size (In.)	Box Qty*
E18BIP	1/8	50
E14BIP	1/4	35
E38BIP	3/8	45
E12BIP	1/2	50
E34BIP	3/4	35
E1BIP	1	20
E114BIP	1 1/4	20
E112BIP	1 1/2	10
E2BIP	2	8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


EF18BIP

STREET

Connection FPT x MPT

	Connection	
Part No.	Size (In.)	Box Qty*
EF18BIP	1/8	60
EF14BIP	1/4	35
EF38BIP	3/8	40
EF12BIP	1/2	60
EF34BIP	3/4	35
EF1BIP	1	30
EF114BIP	1 1/4	25
EF112BIP	1 1/2	9
EF2BIP	2	10


RE3412BIP

REDUCING

Connection FPT x FPT

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
RE3412BIP	3/4	1/2	30
RE134BIP	1	3/4	25
RE11412BIP	1 1/4	1/2	35
RE1141BIP	1 1/4	1	10
RE2112BIP	2	1 1/2	10

45 DEGREE ELBOW


E4538BIP

ELBOW

Connection FPT x FPT

	Connection	
Part No.	FPT (In.)	Box Qty*
E4538BIP	3/8	50
E4512BIP	1/2	50
E4534BIP	3/4	40
E451BIP	1	20
E45114BIP	1 1/4	20
E45112BIP	1 1/2	10
E452BIP	2	12


E45F12BIP

STREET

Connection FPT x MPT

	Connection	
Part No.	FPT (In.)	Box Qty*
E45F12BIP	1/2	75
E45F34BIP	3/4	40
E45F1BIP	1	25
E45F114BIP	1 1/4	10
E45F112BIP	1 1/2	10
E45F2BIP	2	12

TEE


T18BIP

Connection FPT x FPT x FPT

Part No.	FPT (In.)	Box Qty*
T18BIP	1/8	80
T14BIP	1/4	50
T38BIP	3/8	30
T12BIP	1/2	40
T34BIP	3/4	35
T1BIP	1	20
T114BIP	1 1/4	14
T112BIP	1 1/2	15
T2BIP	2	10

TEE



T121214BIP

REDUCING

Connection FPT x FPT x FPT (Branch)

	Connection			
Part No.	Size 1 (In.)	Size 2 (In.)	Size 3 (In.)	Box Qty*
T121214BIP	1/2	1/2	1/4	30
T343438BIP	3/4	3/4	3/8	30
T343412BIP	3/4	3/4	1/2	30
T1112BIP	1	1	1/2	15
T1134BIP	1	1	3/4	25
T1143434BIP	1 1/4	3/4	3/4	10
T1141141BIP	1 1/4	1 1/4	1	16
T1121121BIP	1 1/2	1 1/2	1	13
T2114114BIP	2	1 1/4	1 1/4	6
T2112112BIP	2	1 1/2	1 1/2	8
T22112BIP	2	2	1 1/2	8

PLUG



P18BIP

Part No.	MPT (In.)	Length (In.)	Box Qty*
P18BIP	1/8	0.43	300
P14BIP	1/4	1.00	150
P38BIP	3/8	0.50	100
P12BIP	1/2	1.00	50
P34BIP	3/4	1.30	30
P1BIP	1	1.50	20
P114BIP	1 1/4	1.60	40
P112BIP	1 1/2	1.80	30
P2BIP	2	2.30	20

CAP



PC18BIP

Part No.	FPT (In.)	Box Qty*
PC18BIP	1/8	120
PC14BIP	1/4	80
PC38BIP	3/8	60
PC12BIP	1/2	75
PC34BIP	3/4	40
PC1BIP	1	35
PC114BIP	1 1/4	25
PC112BIP	1 1/2	25
PC2BIP	2	18

UNION

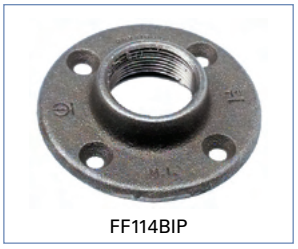


U14BIP

Connection FPT x FPT

Part No.	FPT (In.)	Box Qty*
U14BIP	1/4	20
U38BIP	3/8	20
U12BIP	1/2	50
U34BIP	3/4	30
U1BIP	1	30
U114BIP	1 1/4	15
U112BIP	1 1/2	10
U2BIP	2	6

FLOOR FLANGE



FF114BIP

Part No.	FPT (In.)	Box Qty*
FF114BIP	1 1/4	15

COUPLING


C12GALV

Connection FPT x FPT

	Connection	
Part No.	FPT (In.)	Box Qty*
C12GALV	1/2	60
C34GALV	3/4	50
C1GALV	1	25


RC3412GALV

REDUCING

Connection FPT x FPT

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
RC3412GALV	3/4	1/2	60
RC134GALV	1	3/4	25

UNION


U12GALV

Connection FPT

Part No.	FPT (In.)	Box Qty*
U12GALV	1/2	50
U34GALV	3/4	30

NIPPLE


2N12GALV

Connection MPT

Part No.	MPT (In.)	Length (In.)	Box Qty*
2N12GALV	1/2	2.00	25
3N12GALV	1/2	3.00	25
4N12GALV	1/2	4.00	25
5N12GALV	1/2	5.00	25
6N12GALV	1/2	6.00	25
8N12GALV	1/2	8.00	25
10N12GALV	1/2	10.00	25
12N12GALV	1/2	12.00	25
2N34GALV	3/4	2.00	25
3N34GALV	3/4	3.00	25
4N34GALV	3/4	4.00	25
5N34GALV	3/4	5.00	25
6N34GALV	3/4	6.00	25
2N1GALV	1	2.00	25


CN12GALV

CLOSE

Connection MPT

Part No.	MPT (In.)	Length (In.)	Box Qty*
CN12GALV	1/2	1.00	25
CN34GALV	3/4	1.50	25


BN612GALV

RUN

Connection MPT
Assortment of pipe nipples 6 each 1-1/2" through 8" in 1/2" increments-66 pieces

Part No.	MPT (In.)	Nb. Of Pieces	Length (In.)
BN612GALV	1/2	66	12.00
BN634GALV	3/4	66	12.00

TEE


T12GALV

Connection FPT

Part No.	FPT (In.)	Box Qty*
T12GALV	1/2	40
T34GALV	3/4	35

90 DEGREE ELBOW


E12GALV

Connection FPT x FPT

	Connection		
Part No.	FPT (In.)	Size (In.)	Box Qty*
E12GALV	1/2	1/2	30
E34GALV	1/2	3/4	35
E3412GALV	3/4	3/4	30


EF12GALV

STREET

Connection FPT x MPT

	Connection	
Part No.	FPT (In.)	Box Qty*
EF12GALV	1/2	60
EF34GALV	3/4	35

PLUG


P12GALV

Connection MPT

Part No.	MPT (In.)	Length (In.)	Box Qty*
P12GALV	1/2	0.89	50
P34GALV	3/4	1.11	30

CAP


PC12GALV

Connection FPT

Part No.	FPT (In.)	Box Qty*
PC12GALV	1/2	75
PC34GALV	3/4	40


PC12GALV

Connection FPT

Part No.	FPT (In.)	Box Qty*
PC12GALV	1/2	75
PC34GALV	3/4	40

SYSTEM 1738

SYSTEM 1738® PVC

System 1738 Flue Gas Venting offers a full range of pipe, fittings and termination components that are manufactured from an engineered PVC compound, rated for a maximum flue gas temperature of 149?F and that are fully certified to the rigorous requirements of UL 1738 venting standard for gas-burning appliances, Categories II and IV. System 1738 pipes and fittings are black in color which protects against UV degradation. Material type, application and temperature rating is included in the pipe print line as well as on the orange and black labels applied to each fitting. All System 1738 products have been certified by Intertek and carry an ETL mark as proof of certification. Markings on pipe and fittings are required by UL 1738 and clearly distinguish a certified gas venting system from every day, non-certified plumbing pipe and fittings. Look for the System 1738 label and the mark of a recognized certification agency as assurance that the venting system being used is certified.



E2PVC1738

90 DEGREE ELBOW, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
E2PVC1738	2	H x H	397F
E3PVC1738	3	H x H	397F



EL2PVC1738

90 DEGREE ELBOW, LONG, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
EL2PVC1738	2	H x H	397F
EL3PVC1738	3	H x H	397F



EF2PVC1738

90 DEGREE ELBOW, STREET, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
EF2PVC1738	2	H x Sp	397F
EF3PVC1738	3	H x Sp	397F



E452PVC1738

45 DEGREE ELBOW, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
E452PVC1738	2	H x H	397F
E453PVC1738	3	H x H	397F



E45F2PVC1738

45 DEGREE ELBOW, STREET, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
E45F2PVC1738	2	H x Sp	397F
E45F3PVC1738	3	H x Sp	397F



C2PVC1738

COUPLING, PVC-FGV, SYSTEM 1738®

	Connection		
Part No.	Nominal (In.)	Type	Code
C2PVC1738	2	H x H	397F
C3PVC1738	3	H x H	397F

SYSTEM 1738

REDUCING COUPLING, PVC-FGV, SYSTEM 1738®


RC32PVC1738

	Connection		
Part No.	Nominal (In.)	Type	Code
RC32PVC1738	3 x 2	H x H x FPT	397F

ACCESS TEE, PVC-FGV, SYSTEM 1738®


C2AFPVC1738

	Connection	
Part No.	Nominal (In.)	Code
C2AFPVC1738	2 x 2 x 1/2	397F
C3AFPVC1738	3 x 3 x 1/2	397F

CONCENTRIC VENT KIT, PVC-FGV, SYSTEM 1738®


2X16PVC1738

Part No.	Size (In.)	Code
2X16PVC1738	2 x 16	397T
3X20PVC1738	3 x 20	397T

LOW PROFILE TERMINATION KIT, PVC-FGV, SYSTEM 1738®


2TK1738

Part No.	Size (In.)	Code
2TK1738	2	397T
3TK1738	3	397T

TERMINATION VENT KIT, PVC-FGV, SYSTEM 1738®


2TVS1738

Part No.	Size (In.)	Code
2TVS1738	2	397T
3TVS1738	3	397T

GAS VENT PIPE, PVC-FGV, SYSTEM 1738®


2PVC1738-10

	Connection		
Part No.	Nominal (In.)	Type	Code
2PVC1738-10	2	Plain End	397P
3PVC1738-10	3	Plain End	397P

LOW VOC PVC CEMENT, SYSTEM 1738®


CEMENT1738

	Connection		
Part No.	Size (In.)	Code	Color
CEMENT1738	Pint	397V	Auburn

LOW VOC PVC PRIMER, SYSTEM 1738®


PRIMER1738

	Connection		
Part No.	Size (In.)	Code	Color
PRIMER1738	Pint	397V	Fluorescent Yellow

TUBING


12PVC40

PVC SCHEDULE 40

Standard length 20 ft. If operating temperature is above 73°F, working pressure must be de-rated. Not recommended for use in compressed air or gas systems. Handles commercial and industrial applications in which metal pipe will not withstand the reactive effects of chemicals or other corrosive materials. Light weight facilitates installation with conventional tools and piping techniques. Manufactured in U.S.A. to ASTM material and dimensional standards. Schedule 40 PVC and Schedule 40 and 80 CPVC meet material standard ASTM D-1784. Schedule 40 PVC meets dimensional standard ASTM D-1785 and Schedule 40 and 80 CPVC meet dimensional standard ASTM F-441. NSF certified for potable water service to standard 14/61.

- Priced per foot.

Part No.	Nominal Pipe Size (In.)	OD (In.)	Max. WP PSI at 73°F	Min. Wall Thickness (In.)	Nominal Weight (Lbs/ Ft)
12PVC40	1/2	0.840	600	0.109	0.162
34PVC40	3/4	1.05	480	0.113	0.5
1PVC40	1	1.315	450	0.133	0.32
114PVC40	1 1/4	1.660	370	0.14	0.431
112PVC40	1 1/2	1.900	330	0.145	0.519
2PVC40	2	2.375	280	0.154	0.693
212PVC40	2 1/2	2.875	300	0.203	1.133
3PVC40	3	3.50	260	0.216	1.455
4PVC40	4	4.5	220	0.237	2.05
6PVC40	6	6.625	180	0.28	3.615
8PVC40	8	8.625	160	0.322	5.436
5PVC40	5	5.563	45	0.258	5.79


34PVC21

PVC SCHEDULE 21

PVC SDR Series pipe shall be manufactured in strict accordance to the requirements of ASTM D2241 for physical dimensions and tolerances. This pipe shall be produced in IPS diameters to either: SDR 21 (3/4"-8" sizes 200 psi 73F). All belled end pipe shall have tapered sockets to create an interference type fit, which shall meet or exceed dimensional requirements and the minimum socket length for pressure-type belled sockets as defined in ASTM D2672. NSF approved for potable water service

- Standard length 20 feet. Priced per foot.

Part No.	Nominal Pipe Size (In.)	OD (In.)	Max. WP PSI at 73°F	Min. Wall Thickness (In.)	Nominal Weight (Lbs/ Ft)
34PVC21	3/4	1.05	200	0.06	0.13

COUPLING


C12PVC

SLIP

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
C12PVC	1/2	100
C34PVC	3/4	50
C1PVC	1	50
C114PVC	1 1/4	25
C112PVC	1 1/2	25
C2PVC	2	25
C3PVC	3	10
C4PVC	4	5
C6PVC	6	5


RB3412PVC

REDUCING BUSHING

Connection SPG x Slip

	Connection (In.)		
Part No.	Size 1	Size 2	Box Qty*
RB3412PVC	3/4	1/2	100
RB112PVC	1	1/2	100
RB134PVC	1	3/4	100
RB11412PVC	1 1/4	1/2	25
RB11434PVC	1 1/4	3/4	25
RB1141PVC	1 1/4	1	25
RB11212PVC	1 1/2	1/2	25
RB11234PVC	1 1/2	3/4	25
RB1121PVC	1 1/2	1	25
RB112114PVC	1 1/2	1 1/4	25
RB212PVC	2	1/2	10
RB234PVC	2	3/4	10
RB21PVC	2	1	10
RB2114PVC	2	1 1/4	10
RB2112PVC	2	1 1/2	10
RB212114PVC	2 1/2	1 1/4	10
RB2122PVC	2 1/2	2	10
RB32PVC	3	2	10
RB3212PVC	3	2 1/2	10
RB43PVC	4	3	6

ADAPTER

FEMALE

Connection Slip x FPT



AF12PVC

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
AF12PVC	1/2	1/2	100
AF34PVC	3/4	3/4	50
AF3412PVC	3/4	1/2	50
AF134PVC	1-1/4	1	50
AF1PVC	1	1	50
AF114PVC	1 1/4	1 1/4	25
AF112PVC	1 1/2	1 1/2	25
AF2PVC	2	2	25
AF212PVC	2 1/2	2 1/2	10
AF3PVC	3	3	10
AF4PVC	4	4	5

MALE

Connection MPTx Slip



AM12PVC

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
AM12PVC	1/2	1/2	100
AM1234PVC	1/2	3/4	50
AM3412PVC	3/4	1/2	50
AM34PVC	3/4	3/4	50
AM341PVC	3/4	1	50
AM134PVC	1	3/4	50
AM1PVC	1	1	50
AM1141PVC	1 1/4	1	25
AM114PVC	1 1/4	1 1/4	25
AM112PVC	1 1/2	1 1/2	25
AM2112PVC	2	1 1/2	10
AM2PVC	2	2	25
AM212PVC	2 1/2	2 1/2	10
AM3PVC	3	3	10

90 DEGREE ELBOW

SLIP

Connection Slip x Slip



E12PVC

Part No.	Connection Size (In.)	Box Qty*
E12PVC	1/2	50
E34PVC	3/4	50
E1PVC	1	50
E114PVC	1 1/4	25
E112PVC	1 1/2	25
E2PVC	2	25
E3PVC	3	10
E4PVC	4	5
E6PVC	6	4

STREET

Connection SPG x Slip



EF12PVC

Part No.	Connection Size (In.)	Box Qty*
EF12PVC	1/2	50
EF34PVC	3/4	50
EF1PVC	1	50
EF114PVC	1 1/4	25
EF112PVC	1 1/2	25
EF2PVC	2	10

FEMALE PIPE

Connection Slip x FPT



EFPT12PVC

Part No.	Connection Size (In.)	Box Qty*
EFPT12PVC	1/2	50
EFPT34PVC	3/4	50
EFPT1PVC	1	50
EFPT114PVC	1 1/4	25
EFPT112PVC	1 1/2	25


EMPT12PVC

STREET, MALE PIPE

Connection Slip x MPT

Part No.	Connection Size (In.)	Box Qty*
EMPT12PVC	1/2	50
EMPT34PVC	3/4	50
EMPT1PVC	1	50
EMPT114PVC	1 1/4	25
EMPT112PVC	1 1/2	25
EMPT2PVC	2	10

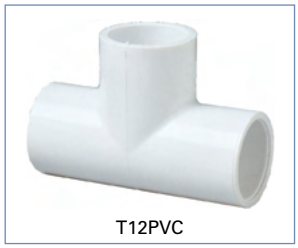
45 DEGREE ELBOW


E4512PVC

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
E4512PVC	1/2	50
E4534PVC	3/4	50
E451PVC	1	50
E45114PVC	1 1/4	25
E45112PVC	1 1/2	25
E452PVC	2	25
E453PVC	3	10
E454PVC	4	5
E456PVC	6	4

TEE


T12PVC

Part No.	Connection Size (In.)	Box Qty*
T12PVC	1/2	50
T34PVC	3/4	50
T1PVC	1	50
T114PVC	1 1/4	25
T112PVC	1 1/2	25
T2PVC	2	25
T212PVC	2 1/2	10
T3PVC	3	10
T4PVC	4	5

CAP


SC12PVC

SLIP

Connection Slip

Part No.	Connection Size (In.)	Box Qty*
SC12PVC	1/2	100
SC34PVC	3/4	100
SC1PVC	1	50
SC114PVC	1 1/4	25
SC112PVC	1 1/2	25
SC2PVC	2	25
SCAP3PVC	3	10


TCAP12PVC

THREADED

Connection FPT

Part No.	Connection Size (In.)	Box Qty*
TCAP12PVC	1/2	100
TCAP34PVC	3/4	100
TCAP1PVC	1	50


SP12PVC

SLIP

Connection SPG

Part No.	Connection Size (In.)	Box Qty*
SP12PVC	1/2	50
SP34PVC	3/4	50
SP1PVC	1	50
SP114PVC	1 1/4	25
SP112PVC	1 1/2	25

PLUG

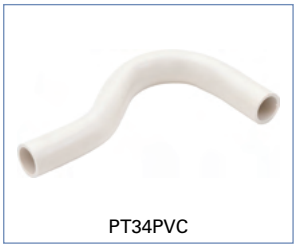

P12PVC

THREADED

Connection MPT

Part No.	Connection Size (In.)	Box Qty*
P12PVC	1/2	50
P34PVC	3/4	50
P1PVC	1	50
P114PVC	1 1/4	25
P112PVC	1 1/2	25
P2PVC	2	10
P212PVC	2 1/2	10

TRAP


PT34PVC

P

Connection SPG x SPG

Part No.	Connection Size (In.)	Box Qty*
PT34PVC	3/4	50
PT1PVC	1	10


RT34PVC

RUN

Connection SPG x SPG

Part No.	Connection Size (In.)	Box Qty*
RT34PVC	3/4	50
RT1PVC	1	10

UNION


U12PVC

Connection Slip x Slip Schedule 80

Part No.	Connection Size (In.)	Box Qty*
U12PVC	1/2	10
U34PVC	3/4	10
U1PVC	1	10
U114PVC	1 1/4	5

COUPLING, DWV


C114PVCDWV

COUPLING

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
C114PVCDWV	1 1/4	100
C112PVCDWV	1 1/2	100
C2PVCDWV	2	100
C3PVCDWV	3	50


RC32PVCDWV

REDUCING

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
RC32PVCDWV	3 x 2	50

90 DEGREE ELBOW, DWV


E114PVCDWV

SLIP

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
E114PVCDWV	1 1/4	50
E112PVCDWV	1 1/2	100
E2PVCDWV	2	50
E3PVCDWV	3	25


EF114PVCDWV

FITTING

Connection SPG x Slip

Part No.	Connection Size (In.)	Box Qty*
EF114PVCDWV	1 1/4	50
EF112PVCDWV	1 1/2	100
EF2PVCDWV	2	50
EF3PVCDWV	3	20


EL2PVCDWV

LONG RADIUS

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
EL2PVCDWV	2	50
EL3PVCDWV	3	25


ELF3PVCDWV

FITTING, LONG RADIUS

Connection SPG x Slip

Part No.	Connection Size (In.)	Box Qty*
ELF3PVCDWV	3	20

45 DEGREE ELBOW, DWV


E452PVCDWV

SLIP

Connection Slip x Slip

Part No.	Connection Size (In.)	Box Qty*
E452PVCDWV	2	50
E453PVCDWV	3	20


E45F114PVCDWV

FITTING

Connection Spg x Slip

Part No.	Connection Size (In.)	Box Qty*
E45F114PVCDWV	1 1/4	50
E45F112PVCDWV	1 1/2	100
E45F3PVCDWV	3	20


T114PVCDWV

Part No.	Connection Size (In.)	Box Qty*
T114PVCDWV	1 1/4	100
T112PVCDWV	1 1/2	100
T2PVCDWV	2	35
T3PVCDWV	3	20

BARBED

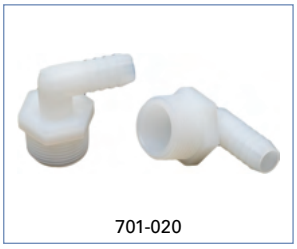

701-012

HALF UNION

MPT x Barb

DIVERSITECH

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
701-012	1/2	3/8	100
701-043	3/4	3/8	100
73207*	3/4	1/2	100
701-028	3/4	5/8	100


701-020

HALF UNION ELBOW, MALE

MPT x Barb

DIVERSITECH

	Connection		
Part No.	Size 1 (In.)	Size 2 (In.)	Box Qty*
701-020	3/4	1/2	100
701-014	3/4	5/8	100


701-034

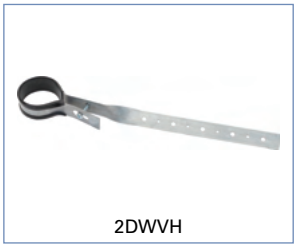
UNION ELBOW

Barb x Barb

DIVERSITECH

Part No.	Connection Size (In.)	Box Qty*
701-034	1/2	100
701-040	5/8	100

PIPE HANGER, DWVH


2DWVH

METAL

Plastic coated metal strap for hanging DWV and other tubing

Part No.	Tube Size (In.)
2DWVH	2
3DWVH	3


515J2000

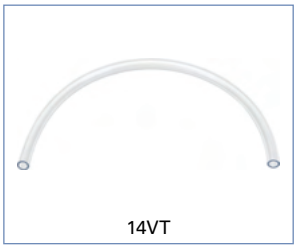
PLASTIC

Swiveling J-Hook, 7 1/2" long

DIVERSITECH

Part No.	Tube Size (In.)
515J2000	2

VINYL TUBING


14VT

- Sold and priced per foot.

NATIONAL REFRIGERATION PRODUCTS

Part No.	ID (In.)	Roll Length (Ft.)
14VT	1/4	100
38VT	3/8	100
12VT	1/2	100
58VT	5/8	100
34VT	3/4	100
78VT	7/8	50
1VT	1	25

SOLVENT


1/4CEMENT

LIGHT DUTY CEMENT

Cement for PVC and PVC/DBS transitions

- Clear color
- Maximum pipe size: 2' pressure Sch 40, 4' DWV Sch 40
- Regular body, fast set
- With dauber top

Part No.	Container Size	Case Qty*
1/4CEMENT	1/4 Pt.	24
1/2CEMENT	1/2 Pt.	24
CEMENT	Pint	12
CEMENTQT	Quart	12


RS55989

HOT™ 203L, LOW VOC CEMENT

Medium body cement that is specifically formulated to give an extremely fast drying solvent weld. It is ideal for irrigation, plumbing, pool and spa applications. Max VOC per SCAQMD 1168/316A or BAAQMD Method 40: 510 g/l.

- Blue color helps assure full coverage during application
- For use on all rigid PVC classes up to and including 6" Schedule 40 and 1 1/4" Schedule 80. Also may be used on flexible PVC hose with rigid fittings or hose-to-hose insertion-type connections.
- Rapid evaporation reduces puddling of solvent cement that could weaken inner pipe wall
- LEED Compliant

Part No.	Container Size	Case Qty*
RS55989	1/2 Pt.	24


RS55930

LOW-VOC PVC, CPVC, ABS CLEANER

Sam™ CL-3L is a clear cleaner for use on all PVC, CPVC and ABS pipe, tubing, and socket-type fittings. Max VOC per SCAQMD 1168/316A or BAAQMD Method 40: 550 g/l.

- Safe for use on potable water systems
- LEED compliant

Part No.	Container Size	Case Qty*
RS55930	1/2 Pt.	12


PRIMER

PRIMER, STANDARD

Primer for PVC and CPVC plastic pipe

- Clear color
- With dauber top

Part No.	Container Size	Case Qty*
PRIMER	Pint	12


1/2PRIMER

PRIMER, HIGH ETCH

Hi-Etch primer for PVC and CPVC

- Purple color
- With dauber top

Part No.	Container Size	Case Qty*
1/2PRIMER	1/2 Pt.	24
PRIMERP	Pint	12
PRIMERQT	Quart	12


1/2PRIMER

PRIMER, HIGH ETCH

Hi-Etch primer for PVC and CPVC

- Purple color
- With dauber top

Part No.	Container Size	Case Qty*
1/2PRIMER	1/2 Pt.	24
PRIMERP	Pint	12
PRIMERQT	Quart	12

POLYPROPYLENE PUSH-IN FITTING


PP010823W

PUSH-IN MALE CONNECTOR, NPTF THREAD

- Maximum working pressure: 150 psi @ 70°F

John Guest

Part No.	Connection Size (In.)
PP010823W	1/4 OD x 3/8 NPTF
PP011222W	3/8 OD x 1/4 NPTF
PP011223W	3/8 OD x 3/8 NPTF
PP011224W	3/8 OD x 1/2 NPTF
PP011623W	1/2 OD x 3/8 NPTF
PP011624W	1/2 OD x 1/2 NPTF


PP0208W

PUSH-IN UNION TEE, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP0208W	1/4 OD
PP0212W	3/8 OD
PP0216W	1/2 OD


PP0312W

PUSH-IN UNION ELBOW, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP0312W	3/8 OD
PP0316W	1/2 OD


PP0408W

PUSH-IN UNION CONNECTOR, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP0408W	1/4 OD
PP0412W	3/8 OD


PP061208W

PUSH-IN REDUCER, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP061208W	3/8 Stem OD x 1/4 Tube OD


PP0808W

PUSH-IN PLUG, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP0808W	1/4 OD
PP0812W	3/8 OD


PP091223W

PUSH-IN SWIVEL ELBOW, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP091223W	3/8 OD x 3/8 NPTF


PP201208W

PUSH-IN REDUCING UNION CONNECTOR, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP201208W	3/8 OD x 1/4 OD
PP201612W	1/2 OD x 3/8 OD


PP220808W

PUSH-IN PLUG-IN ELBOW, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP220808W	1/4 OD
PP221212W	3/8 OD


PP30121208W

PUSH-IN REDUCING TEE, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP30121208W	3/8 x 3/8 x 1/4 branch


PP480823W

PUSH-IN FIXED ELBOW, POLYPROPYLENE

John Guest

Part No.	Connection Size (In.)
PP480823W	1/4 OD x 3/8 NPTF
PP531212W	3/8 OD x 3/8 NPTF


PSEI6012U9

FEMALE CONNECTOR, BRASS FITTING

Designed for use in coffee brewing equipment, beverage dispensing and vending machine applications. The fittings are manufactured in brass with a polypropylene collet and a food grade EPDM o-ring.

NOT suitable for compressed air applications. Working Pressures and Temperatures Water: Max. 150 psi at 70F - Max. 60 psi at 140F

John Guest

Part No.	Connection Size (In.)
PSEI6012U9	3/8 OD x 9/16 24 UNEF

ACETAL PUSH-IN FITTING

ACETAL COPOLYMER PUSH-IN FITTINGS

The fittings are manufactured in gray acetal copolymer with food grade nitrile O-ring, making them especially suitable for applications involving foodstuff and potable liquids. They are also suitable for air and inert gases and can therefore be used on CO2 lines, pneumatic applications and vacuum.

- Push-fit technology
- Quick disconnection without the need for tools
- Food Quality and suitable for potable liquids
- Suitable for soft metal or plastic tubes
- Suitable for air or inert gases
- Superior flow characteristics
- Lead free

Working Pressures and Temperatures

5/32"-5/16": Max. 230 psi at 68?F, Max. 150 psi at 150?F

3/8"-1/2": Max. 150 psi at 68°F, Max. 100 psi at 150°F



PI011223S

PUSH-IN MALE CONNECTOR, NPTF THREAD

John Guest

Part No.	Connection Size (In.)
PI011222S	1/4 MPT x 3/8 F Push
PI011223S	3/8 MPT x 3/8 F Push
PI011224S	1/2 MPT x 3/8 F Push



PI0212S

PUSH-IN UNION TEE

John Guest

Part No.	Connection Size (In.)
PI0212S	3/8 OD



PI0312S

PUSH-IN UNION ELBOW

John Guest

Part No.	Connection Size (In.)
PI0312S	3/8 OD



PI0412S

PUSH-IN UNION CONNECTOR

John Guest

Part No.	Connection Size (In.)
PI0412S	3/8 OD



PI251212SL

PUSH-IN TUBE TO HOSE STEM (LONG)

John Guest

Part No.	Connection Size (In.)
PI251212SL	3/8 Stem OD x 3/8 Hose ID

TWIST & LOCKB® FITTING



NC2723

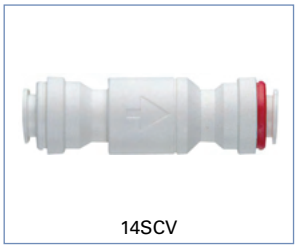
FEMALE SWIVEL ELBOW (GARDEN HOSE THREAD)

- Push-fit connections
- Suitable for use with Pex, CPVC and Copper pipe
- Hot and Cold water and Hydronic Heating applications
- Lead Free and Non Toxic
- Truly demountable without damage to pipe or fitting
- No risk of fire or flames
- Corrosion free and no scale build-up

John Guest

Part No.	Connection Size (In.)
NC2723	3/8 OD x 3/4 NH

VALVE


14SCV

SINGLE CHECK VALVE

Produced at the request of leading companies in the Drinks Dispense Industry, the Super Speedfit Acetal Single Check Valve ensures protection against reversal of flow. The low headloss design and fast installation time make the valve the ideal selection. The valve is designed for use with liquids, it is not suitable for air and vacuum applications.

John Guest

Part No.	Connection Size (In.)
14SCV	1/4 OD
38SCV	3/8 OD
3/8SCV-US	3/8 OD


ASVPP2LF

ANGLE STOP ADAPTER VALVE

The ASVPP range is offered in white polypropylene with food grade EPDM 'o'-rings. The valve connects between your valve and riser, to the main water supply line, for applications in Reverse Osmosis, Filtration systems, Automatic Coffee Brewers, Ice-makers, and many more. The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels, or for heating systems.

- Push-fit technology
- Quick disconnection without the need for tools
- EPDM 'O' rings
- Intended for use with potable water
- Incorporates integral style check valve and a 1/4 turn chrome plated ball valve
- Not suitable for air or inert gases

John Guest

Part No.	Connection Size (In.)	Compression (In.)
ASVPP2LF	3/8 OD	3/8 M x 3/8 F


PPSV040808W

POLYPROPYLENE SHUT-OFF VALVE, SPEEDFIT TO SPEEDFIT

Produced in polypropylene and fitted with EPDM O-rings. Polypropylene has the advantage of being more chemically resistant than acetal. The valves are for use with potable water.

The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems. Working Pressures and Temperatures Water: Max. 150 psi at 70F - Max. 60 psi at 140F

John Guest

Part No.	Connection Size (In.)
PPSV040808W	1/4 OD
PPSV041212W	3/8 OD
PPSV501222W	3/8 OD

Continued on next page

TUBING & ACCESSORIES

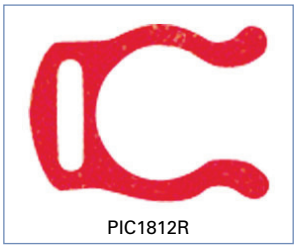

PE08BI025FN

IMPERIAL SIZE LLPDE TUBING

- Linear low density polyethylene
- Suitable for cold and intermittent hot water applications
- Broad chemical compatibility
- FDA and NSF certified
- Strong, flexible and robust

John Guest

Part No.	Connection Size (In.)	Coil Length (Ft.)	Color
PE08BI025FN	1/4 OD x 0.17	25	Natural
PE12EI025FB	3/8 OD x 0.25	25	Blue
PE12EI025FN	3/8 OD x 0.25	25	Natural


PIC1812R

LOCKING CLIP

The locking clip from John Guest is part of the Speedfti range. It works to secure the collet in its position to prevent an accidental disconnection of the tube.

John Guest

Part No.	Connection Size (In.)
PIC1812R	3/8 OD


TSNIP

TUBE CUTTER

John Guest

Part No.	Description
TSNIP	Tube cutter for up to 12mm tube


TSPITOOL

COLLET LOCKING/RELEASE TOOL

John Guest

Part No.	Description
TSPITOOL	Collet locking/release tool, 1/4" and 3/8"

ACCESS FITTING


SFL1402

SAFETY LOCKING CAP

Maintain compliance with local building codes with these durable, value-conscious safety caps. Lightweight, UV resistant thermoplastic composition.

- Compatible with R12, R22, R134A, R404A, R410A and other refrigerants.
- No tools required- simply tighten by hand
- Resistant to fat, grease, oils, and solvents
- Temperature range: -40°F to 257°F

Part No.	Description
SFL1402	1/4" Safety locking cap, 2 Pack
SFL51602	5/16" Safety locking cap, 2 Pack


A31002

EXTENSION TUBE

- Use flux free phos-copper-solder
- Extension length approximately 2"
- Use with copper fitting
- Install through side of larger line

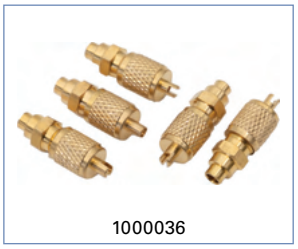
Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
A31002*	1/8 OD	6.70	5
A31003*	3/16 OD x 1/8 ID	6.70	5
A31004*	1/4 OD x 3/16 ID	6.50	5
A31005*	5/16 OD x 1/4 ID	2.40	5
A31006*	3/8 OD x 5/16 ID	6.70	5
A31008*	1/2 OD	7.00	3


A31009

MULTI STEP EXTENSION

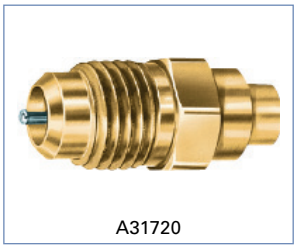
- 1/8" OD, 3/16", 1/4", 5/16" ODF body steps

Part No.	Description	Length (In.)	Pkg Qty
A31009*	Multi Step Tube Extension	5.90	3


1000036

MULTI STEP STUB

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
1000036*	3/16 ODS x (3/8,1/4) ODF	6.00	5


A31720

MULTI STEP STUB

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
A31720*	3/16 ODS x (3/8,1/4) ODF	6.70	5
A31729*	3/16,1/4,5/16,1/2 ODF	5.00	3


1000039

STUB TUBE

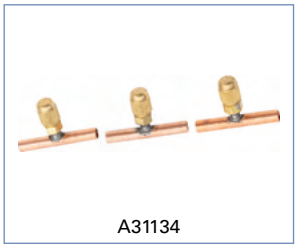
Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
1000039*	3/16 ODS x 1/4 ODF	4.70	3
1000040*	1/4 ODS x 3/8 ODF	4.60	3


A31722

STUB TUBE

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
A31722*	1/8 ODS x 1/4 ODF	4.70	3
A31723*	3/16 ODS x 1/4 ODF	4.80	3
A31723-100*	3/16 ODS x 1/4 ODF	2.38	100
A31724*	1/4 ODS x 3/8 ODF	2.38	3
A31725*	5/16 ODS x 1/2 ODF	5.10	3
A31726*	3/8 ODS x 1/2 ODF	0.30	3
A31728*	1/2 ODS x 5/8 ODF	2.38	3

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


A31134

SOLDER TEE

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
A31134*	1/4 ODS x 5/16 ODF	2 1/8	3
A31135*	5/16 ODS x 3/8 ODF	2 1/8	3
A31136*	3/8 ODS x 1/2 ODF	2 1/8	3
A31138*	1/2 ODS	2 1/8	3
A31140*	5/8 ODS	2 1/2	1
A31142*	3/4 ODS	3.00	1
A31144*	7/8 ODS	3 1/2	1
A31148*	1 1/8 ODS	3 13/16	1


A31200

SOLDER UNION TEE

- Connection: ODF x ODS

Part No.	Tube Size (In.)	Length (In.)	Pkg Qty
A31200*	3/8	6.70	2
A31201*	1/2	3.25	2
A31202*	5/8	3.00	2
A31204*	7/8	4.00	2


A31160

SOLDER 90° ELBOW

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
A31160*	5/8 ODS	7.25	1
A31162*	3/4 ODS	7.40	1
A31164*	7/8 ODS	3.60	1
A31168*	1 1/8 ODS	5.63	1


1000049

SWIVEL TEE - DEPRESSOR

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel connection with depressor in female connection

Part No.	Length (In.)	Pkg Qty
1000049*	5.70	3
1000050*	5.70	3


A31851

SWIVEL TEE - DEPRESSOR

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel connection with depressor in female connection

Part No.	Description	Length (In.)	Pkg Qty
A31851*	Female Swivel on Run	6.70	3
A31852*	Female Swivel on Branch	6.50	3


1000052

SWIVEL TEE - 1/4" FLARE

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel - no depressor

Part No.	Length (In.)	Pkg Qty
1000052*	5.80	3
1000054*	6.10	3


A31854

SWIVEL TEE - 1/4" FLARE

- 1/4" M flare access x 1/4" M flare x 1/4" female flare swivel - no depressor

Part No.	Description	Length (In.)	Pkg Qty
A31854*	Female Swivel on Branch	6.50	3
A31864*	Female Swivel on Run	6.70	3

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESS FITTING


A31853

SWIVEL TEE - 3/8" FLARE

• 3/8" female flare swivel x 3/8" M flare x 1/4" M flare access

Part No.	Description	Length (In.)	Pkg Qty
A31853*	Female Swivel on Run	4.50	1


1000027

PIPE THREAD TEE

• 1/4" M flare access x 1/4" M flare x pipe thread

Part No.	Pipe Thread (In.)	Length (In.)	Pkg Qty
1000027*	1/8 MPT on Branch	6.40	3
1000033*	1/8 MPT on Run	5.80	3
1000034*	1/4 MPT on Run	5.70	3


A31452

PIPE THREAD TEE

• 1/4" M flare access x 1/4" M flare x pipe thread

Part No.	Pipe Thread (In.)	Length (In.)	Pkg Qty
A31452*	1/8 MPT on Branch	7.00	3
A31454*	1/4 MPT on Branch	6.00	3
A31512*	1/8 MPT on Run	6.70	3
A31514*	1/4 MPT on Run	5.90	3


A31522

PIPE THREAD CROSS

• 1/4" M flare access x 1/4" M flare x 1/4" MPT

Part No.	Description	Length (In.)
A31522*	Cross	5.75


1000029

HALF UNION

• 1/4" M flare access x MPT

Part No.	Pipe Thread (In.)	Length (In.)	Pkg Qty
1000029*	1/8 MPT	6.40	5
1000030*	1/4 MPT	6.10	5
1000031*	1/8 MPT, 90°	6.40	3


A31482

HALF UNION

• 1/4" M flare access x MPT

Part No.	Pipe Thread (In.)	Length (In.)	Pkg Qty
A31482*	1/8 MPT	8.90	5
A31484*	1/4 MPT	6.50	5
A31492*	1/8 MPT, 90°	7.00	3


1000047

FEMALE FLARE

• 1/4" M flare access x 1/4" fem flare

Part No.	Length (In.)	Pkg Qty
1000047*	6.20	5


A31614

FEMALE FLARE

• 1/4" M flare access x 1/4" fem flare

Part No.	Description	Length (In.)	Pkg Qty
A31614*	1/4" Fem Flare Union/Copper Gasket	7.00	5
A31734*	1/4" Fem Flare Swivel with Depressor	4.60	3
A33004*	Access Coupler with Depressor		1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MALE FLARE


A31424

Part No.	Description	Length (In.)	Pkg Qty
A31424*	1/4" Flare Union with Nut	6.75	3
A31444*	1/4" M Flare T with Nut		3

BULKHEAD FITTING


1000025

- 1/4" M flare access x 1/4" M flare - 1/4" MPT

Part No.	Length (In.)
1000025*	4.60

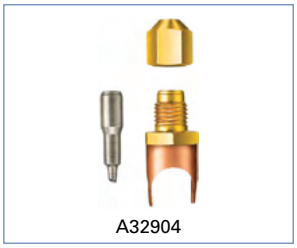
BULKHEAD FITTING


A31434

- 1/4" M flare access x 1/4" M flare - 1/4" MPT

Part No.	Description
A31434*	Access x 1/4" M Flare with Nut
A31727*	Access x (3/16", 1/4") ODS

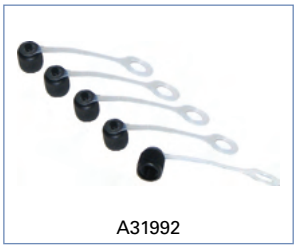
BRAZE-ON SADDLE


A32904

The A32800/A32900 series of saddles offer the best protection from leaks. Once brazed on, you can check for leaks before piercing the tube. The steel pin is inserted and the cap is tightened down to pierce the tube. Body sizes are contourd to match specific tube sizes. The braze/tapper has a hardened steel-piercing needle and is furnished with a cap.

Part No.	Tube Size (In.)	Length (In.)	Pkg Qty
A32804*	1/4	3.00	5
A32904*	1/4	4.40	5
A32905*	5/16	4.50	5
A32906*	3/8	4.20	5
A32908*	1/2	4.40	3
A32910*	5/8	3.20	3
A32912*	3/4	4.30	2
A32914*	7/8	4.50	2

ACCESSORIES


A31992

Part No.	Description	Length (In.)	Pkg Qty
A31992*	Plastic Cap with Retainer Strap	3.25	5
A31999*	Valve Core	4.90	5

EXTENSION TUBE


CTE18

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
CTE18*	1/8	6.80	5
CTE316*	3/16	7.00	5
CTE14*	1/4	7.00	5
CTE516*	5/16	7.00	5
CTE38*	3/8	5.80	5
CTE12*	1/2	7.00	3
100-0070*	1/4	4.00	50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESS FITTING


CBT14

SOLDER TEE

Part No.	Slip Fit (In.)	Length (In.)	Pkg Qty
CBT14*	1/4	6.80	3
CBT516*	5/16	7.00	3
CBT38*	3/8	7.00	3
CBT12*	1/2	7.00	3
CBT58*	5/8	7.00	1
CBT34*	3/4	7.00	1
CBT78*	7/8	7.00	1
CBT118*	1 1/8	7.00	1


BPV31

BULLET® PIERCING VALVE

- Patented valve gasket application provides 50 times more sealing area than competitive O ring types
- A sealing force of over 180 inch lbs., torque tested with 500 lbs., pressure tested at 250°F

Part No.	Tube Size (In.)	Length (In.)	Case Qty*
BPV31[1]	1/4, 5/16, 3/8	2.80	12
BPV21[1]	1/2, 5/8	2.80	8
BPV14	1/4	1.00	12
BPV38	3/8	1.25	12
BPV34	3/4	2.10	1

1 Furnished with adapter sleeves to use with indicated sizes


LT456

LINE PIERCING VALVE

The spring loaded needle automatically back-seats, forming a leak proof seal. Both models fit 1/4", 5/16", 3/8", 1/2" and 5/8" OD tubing.

Part No.	Length (In.)
LT456*	4.30
LT810*	4.50


EZ40288

EZ TAPPER PIERCING VALVE

The back-seating stem eliminates line restriction when servicing through access port or use the valve for fl ow control.

Part No.	Length (In.)
EZ40288*	0.30


QTM1

LINE TAP VALVE

- Can be mounted in any position
- Adapter sleeves included

Part No.	Tube Size (In.)	Length (In.)
QTM1	1/4, 5/16, 3/8	3.00
QTM2	1/2, 5/8	3.00


A33500

CORE DEPRESSOR

Part No.	Description
A33500*	1/4" Thumbscrew core depressor


CD22902

REFRIGERANT SAFETY CAP

- Locks in place to prevent refrigerant loss
- Helps prevent unauthorized access
- Reduces potential liability for inhalation induced injury or death
- Deters refrigerant theft

Part No.	Description
CD22902	1/4" MFL Locking Cap, 2 Pack
CD22910	1/4" MFL Locking Cap, 10 Pack
CD229050	1/4" MFL Locking Cap, 50 Pack

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

INSULATED PIPE HANGER

INSULATED PIPE HANGERS

Armaflex Insulation pipe hangers are quick, innovative alternatives to traditional block and dowel pipe supports. These self-adhering, foam to foam hangers provide optimum load bearing while protecting against thickness compression and condensation gaps that can compromise system integrity.

- Insulation only—requires clevis or saddle hanger for complete system
- CFC-free PUR/PIR load bearing segments embedded in Armacell tubular product. Outer shell 30 mils painted aluminum
- Single piece construction
- Thermal conductivity and resistance to moisture vapor flow
- Closed cell for system integrity
- Quick, easy 3-step installation
- Available to 8" IPS diameters



IPH01212

1/2" WALL THICKNESS

- 1/2" wall thickness

armacell

Part No.	Tube Size (In.)	IPS (In.)	Assembly OD (In.)	Assembly L (In.)	Box Qty*
IPH01212	1/2	1/4	1/2	1-1/4	32
IPH05812	5/8	3/8	5/8	1-1/2	32
IPH07812	7/8, 3/4	1/2	1.85	1.77	32
IPH11812	1 1/8	3/4	2.13	1.77	32
IPH13812	1 3/8	1	2.44	1.97	28



IPH03834

3/4" WALL THICKNESS

- 3/4" wall thickness

armacell

Part No.	Tube Size (In.)	IPS (In.)	Assembly OD (In.)	Assembly L (In.)	Box Qty*
IPH03834	3/8	3/8	1.81	2.17	28
IPH01234	1/2	1/4	1.89	2.17	28
IPH05834	5/8	3/8	2.05	2.17	28
IPH07834	7/8, 3/4	1/2	2.32	2.17	28
IPH11834	1 1/8	3/4	2.76	2.17	24
IPH13834	1 3/8	1	3.19	2.56	24
IPH15834	1 5/8	1 1/4	3.35	2.56	24
IPH21834	2 1/8	4	3.86	2.56	24
IPH25834	2 5/8	5	4.57	2.95	20
IPH31834	3 1/8	5	5.00	3.35	16
IPH41834	4 1/8	3 1/2	6.15	3.94	12



IPH05810

1" WALL THICKNESS

- 1" wall thickness

armacell

Part No.	Tube Size (In.)	IPS (In.)	Assembly OD (In.)	Assembly L (In.)	Box Qty*
IPH05810	5/8	3/8	2.54	2.17	28
IPH07810	7/8, 3/4	1/2	2.82	2.17	28
IPH11810	1 1/8	3/4	3.06	2.17	28
IPH13810	1 3/8	1	3.33	2.56	24
IPH15810	1 5/8	1 1/4	3.65	2.56	24
IPH21810	2 1/8	4	4.16	2.56	24
IPH25810	2 5/8	5	4.87	2.95	20
IPH31810	3 1/8	5	5.14	3.35	16
IPH41810	4 1/8	3 1/2	6.48	3.94	12



724025

1/2" WALL THICKNESS

KLO-SHURE

Part No.	Tube Size (In.)	Assembly L (In.)	Dia. (In.)
724025	1/4	2	1.38
724037	3/8	2	1.50
724050	1/2	2	1.62
724062	5/8	2	1.75
724075	3/4	2	1.87
724087	7/8	2	2.00
724112	1 1/8	2	2.25
724137	1 3/8	2	2.50
724162	1 5/8	2	2.75
724212	2 1/8	2	3.25
724262	2 5/8	2	3.75
724312	3 1/8	2	4.25
724412	4 1/8	2	5.25

INSULATED PIPE HANGER

3/4" WALL THICKNESS



726025

Part No.	Tube Size (In.)	Assembly L (In.)	Dia. (In.)
726025	1/4	2	1.87
726037	3/8	2	2.00
726050	1/2	2	2.12
726062	5/8	2	2.25
726075	3/4	2	2.37
726087	7/8	2	2.50
726112	1 1/8	2	2.75
726137	1 3/8	2	3.00
726162	1 5/8	2	3.25
726212	2 1/8	2	3.75
726262	2 5/8	2	4.25
726312	3 1/8	2	4.75
726412	4 1/8	2	5.75

1" WALL THICKNESS



728025

Part No.	Tube Size (In.)	Assembly L (In.)	Dia. (In.)
728025	1/4	2	2.37
728037	3/8	2	2.50
728050	1/2	2	2.62
728062	5/8	2	2.75
728075	3/4	2	2.87
728087	7/8	2	3.00
728112	1 1/8	2	3.25
728137	1 3/8	2	3.50
728162	1 5/8	2	3.75
728212	2 1/8	2	4.25
728262	2 5/8	2	4.75
728312	3 1/8	2	5.25
728362	3 5/8	2	5.75
728412	4 1/8	2	6.25



1 1/2" WALL THICKNESS



729037

Part No.	Tube Size (In.)	Assembly L (In.)	Dia. (In.)
729037	3/8	2	1.75
729050	1/2	2	2.00
729062	5/8	2	2.25
729087	7/8	2	2.50
729112	1 1/8	2	2.75
729137	1 3/8	2	3.00
729162	1 5/8	2	3.25
729212	2 1/8	2	3.75
729262	2 5/8	2	4.25
729312	3 1/8	2	4.75

PIPE CRADLE



BPS200B

SNAP'N SHIELD FOR STRUT CHANNEL

Fast, easy installation – snaps onto strut channel; up to 60% quicker than traditional metal shields.

- No tools required
- Horizontal installation attachment feature to minimize the need to lift the pipe during installation
- Tight snap-on fit design helps eliminate shield movement which helps prevent insulation damage
- Tapered lip end design helps protect insulation from damage that can be caused by sharp edge of traditional saddles
- High sidewalls are designed to contain refrigerant liquid lines for efficient system installation
- Designed for side-by-side installation to help minimize costs in high density applications
- Wide mounting flange to allow for optional self-tapping screws
- MSS standards require 12" of surface contact for pipe sizes up to 4". All sizes of Snap 'N Shield™ have 12" of surface contact
- Structural ribs improve crush rating by more than 25% at strut attachment
- Material is UV resistant, paintable and operating temperature of -40 degrees to 178 degree Fahrenheit.

EATON
Powering Business Worldwide

	Dimensions (In.)		
Part No.	L	Opening Width (In.)	Color
BPS200B	12.00	2.35	Black
BPS200W	12.00	2.35	White
BPS300B	12.00	3.46	Black
BPS300W	12.00	3.46	White
BPS400B	12.00	4.5	Black
BPS400W	12.00	4.5	White
BPS500B	12.00	5.52	Black
BPS500W	12.00	5.52	White
BPS600B	12.00	6.5	Black
BPS600W	12.00	6.5	White
BPS800B	12.00	8.64	Black
BPS800W	12.00	8.64	White



225B2S

BRONCO II® INSULATION TUBE & PIPE SADDLE

HYDRA-ZORB

	Dimensions (In.)				
Part No.	L	W	H	Opening Width (In.)	Color
225B2S	1.00	1.00	1.00	2.25	Black
225W2S	1.00	1.00	1.00	2.25	White
325B2S	1.00	1.00	1.00	3.25	Black
325W2S	1.00	1.00	1.00	3.25	White
425B2S	1.00	1.00	1.00	4.25	Black
425W2S	1.00	1.00	1.00	4.25	White
525B2S	1.00	1.00	1.00	5.25	Black
525W2S	1.00	1.00	1.00	5.25	White
625B2S	1.00	1.00	1.00	6.25	Black
625W2S	1.00	1.00	1.00	6.25	White
825B2S	1.00	1.00	1.00	8.25	Black
825W2S	1.00	1.00	1.00	8.25	White



INSUGUARD225

INSUGUARD PIPE CRADLE

Designed to accommodate movement of the pipes generated by thermal expansion and vibration. It allows the pipe to slide easily into the protector. Eliminates insulation tears, costly leaks caused by pipe friction against the metal parts of the suspension or the structure. It holds up to the highest quality standards of the industry.

Easy to install, the protector directly fits the standard channel used in the industry. You only have to fix the protector on the channel. Insuguard's revolutionary design protects your piping system and improves its appearance. It's a practical and economical way to standardize your entire installations.

armacell

	Dimensions (In.)			
Part No.	L	W	H	Color
INSUGUARD225	12.00	2 1/4	4 5/8	Black
INSUGUARD225W	12.00	2 1/4	4 5/8	White
INSUGUARD325	12.00	3 1/4	5 5/8	Black
INSUGUARD325W	12.00	3 1/4	5 5/8	White
INSUGUARD425	12.00	4 1/4	6 5/8	Black
INSUGUARD425W	12.00	4 1/4	6 5/8	White
INSUGUARD525	12.00	5 1/4	7 5/8	Black
INSUGUARD525W	12.00	5 1/4	7 5/8	White
INSUGUARD625	12.00	6 1/4	8 5/8	Black
INSUGUARD625W	12.00	6 1/4	8 5/8	White
INSUGUARD825B	12.00	8 1/4	10 5/8	Black
INSUGUARD825W	12.00	8 1/4	10 5/8	White

CHANNEL STRUT


B52SH-10

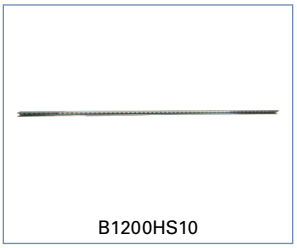
GREEN EPOXY FINISH

Urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form urethane, it proceeds through a 400° baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating providing excellent resistance to chipping

- Standard length: 10' (3.05m) and 20' (6.09m)
- Standard finish: dura-green epoxy
- Special order: plain

B-Line by EATON

Part No.	Thickness (Ga)	Length (Ft.)	Width (In.)	Height (In.)	Weight/Ft (Lbs.)
B52SH-10	12	10.0	1 5/8	13/16	1.19
B22SH-10	12	10.0	1 5/8	1 5/8	1.82
B22SH-20	12	20.0	1 5/8	1 5/8	1.82
B54SH-10	14	10.0	1 5/8	13/16	1.36
B54SH-20	14	20.0	1 5/8	13/16	2.12


B1200HS10

GOLD GALVANIZED FINISH

The standard GoldGalv® wiring support hardware finish on Superstrut products is a multi-step electrogalvanizing and zinc dichromate process. The .5 mil electrogalvanized plating, rather than a standard galvanized coating, creates a cohesive molecular bond between the zinc and the steel. This resists future blistering or peeling, since corrosion cannot penetrate the bond. The plating is performed in compliance with ASTM specifications B 633-85. The electrogalvanizing provides an even distribution of zinc, even on threads, unlike other galvanizing methods. Gold colored zinc dichromate is applied over the zinc, producing a chemically bonded non-porous barrier for protection from moisture and air. This extends the protective life of the zinc, and provides an excellent base for paint, if desired. The GoldGalv® hardware finish also provides a low electrical resistance when grounding of the system is required. Superstrut channel and fittings are plated after fabrication, so there are no unprotected edges from cutting or punching. Where field cutting is necessary or scratches occur due to construction handling, you still have the sacrificial protection of the plated zinc to minimize the corrosion of raw edges and prevent spreading.

- Standard length: 10' (3.05m) and 20' (6.09m)

B-Line by EATON

Part No.	Thickness (Ga)	Length (Ft.)	Width (In.)	Height (In.)	Weight/Ft (Lbs.)
B1200HS10	12	10.0	1 5/8	13/16	1.19
B1200HS20	12	20.0	1 5/8	13/16	1.19

Continued on next page

Part No.	Thickness (Ga)	Length (Ft.)	Width (In.)	Height (In.)	Weight/Ft (Lbs.)
A1200HS10	12	10.0	1 5/8	1 5/8	1.82
A1200HS20	12	20.0	1 5/8	1 5/8	1.82
B1400HS10	14	10.0	1 5/8	13/16	1.36


A1200HS10PG

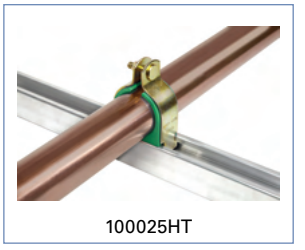
PRE-GALVANIZED FINISH

A zinc coating is applied by hot-dipping the steel coil at the mill prior to fabrication. Once the material is worked by rollforming, cutting, or punching, minimal protection is provided for raw edges. This weakness is typical with precoated material and affects the channel section around holes, extreme ends, and the edges of the "U" shape lips. Superstrut pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 ounces of zinc per square foot of steel. This finish is often referred to as "hot-dipped mill galvanized" or "mill galvanized".

B-Line by EATON

Part No.	Thickness (Ga)	Length (Ft.)	Width (In.)	Height (In.)	Weight/Ft (Lbs.)
A1200HS10PG	12	10.0	1 5/8	1 5/8	1.82
A1200HS20PG	12	20.0	1 5/8	1 5/8	1.82

PIPE CLAMP


100025HT

CUSHIONED CLAMP ASSEMBLY, HIGH TEMPERATURE

Specifically designed for longer durability in HVAC/R, Plumbing/ Mechanical, Brewing Systems, and anywhere higher pipe processing temperatures are a concern.

- Temperature rating: -65°F to +338° F
- Clamps are 1008 –1010 carbon steel
- Eliminate shock and vibration
- Resist most fuels, oils, gasses, greases, solvents, mineral acids and other harsh materials
- Assembled or disassembled with a single hand or power wrench for fast and simple installation
- All metal components have a Trivalent (non-hex) plating

Hydra-Zorb

Part No.	Tube Size (In.)
100025HT	1/4
100037HT	1/8
100050HT	1/2
100062HT	5/8
100075HT	3/4
100087HT	7/8
100100HT	1
100119HT	1 1/19

Continued on next page

Part No.	Tube Size (In.)
100112HT	1 1/8
100125HT	1 1/4
100137HT	1 3/8
100150HT	1 1/2
100162HT	1 5/8
100175HT	1 3/4
100187HT	1 7/8
100200HT	2
100212HT	2 1/8
100225HT	2 1/4
100237HT	2 3/8
100251HT	2 1/2
100262HT	2 5/8
100300HT	3
100312HT	3 1/8
100362HT	3 5/8
100400HT	4
100412HT	4 1/8
100500HT	5
100512HT	5 1/8
100600HT	6
100612HT	6 1/8



NIC-1/4

CUSHIONED CLAMPS

Assembly consisting of galvanized finish steel clamp with bolt/locknut and cushion.
Installation is easy and requires no more time than a simple pipe clamp would. The cushion absorbs the shock and associated vibrations from fluid surges in tube, pipe and hoses. It can handle temperatures from 300°F to -40°F.

IRP International Refrigeration Products

Part No.	Tube Size (In.)
NIC-1/4	1/4
NIC-3/8	3/8
NIC-1/2	1/2
NIC-5/8	5/8
NIC-3/4	3/4
NIC-7/8	7/8
NIC-1-1/8	1 1/8
NIC-1-3/8	1 3/8
NIC-1-5/8	1 5/8
NIC-2-1/8	2 1/8
NIC-2-5/8	2 5/8
NIC-3-1/8	3 1/8
NIC-3-5/8	3 5/8
NIC-4-1/8	4 1/8
NIC-7/8SS[1]	7/8
NIC-5/8SS[1]	5/8
NIC-1-1/8SS[1]	1-1/8

1 Stainless Steel



70138

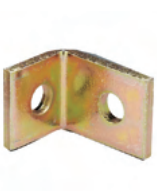
CHANNEL CLAMPS

Standard Finish: GoldGalv®

B-Line by EATON

Part No.	Tube Size (In.)	Thickness (Ga)
70138	3/8	14
70112	1/2	14
70158	5/8	14
70134	3/4	14
70178	7/8	14
701118	1 1/8	14
701138	1 3/8	14
701158	1 5/8	14
701178	1 7/8	12
701218	2 1/8	12
701238	2 3/8	12
701212	2 1/2	12
701258	2 5/8	12
701278	2 7/8	12
701318	3 1/8	12
701312	3 1/2	12
701358	3 5/8	11
701378	3 7/8	11
701418	4 1/8	11
701458	4 5/8	11
701478	4 7/8	11
701518	5 1/8	11
7016	6	10
7026	6	10

STRUT HARDWARE



AB201

2 HOLE ANGLE BRACKET

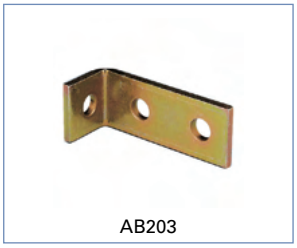
- 1 5/8" wide

B-Line by EATON

Part No.	Approx. Arm Lengths (In.)	Wgt (Lbs.)
AB201	1 5/8 x 2 1/4	1.00
AB202	1 7/8 x 2	0.14

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STRUT HARDWARE

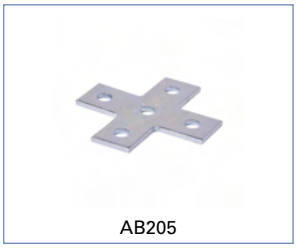

AB203

3 HOLE ANGLE BRACKET

- 1 5/8" wide
- 1/4" thick
- Gold galvanized finish

B-Line by EATON

Part No.	Approx. Arm Lengths (In.)	Wgt (Lbs.)
AB203	4 1/8 x 1 5/8	0.24
AB204	3 1/2 x 2 1/4	0.58

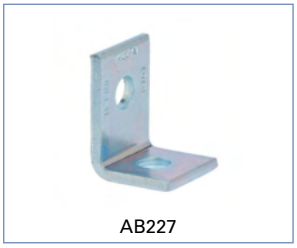

AB205

4 HOLE ANGLE BRACKET

- Approximate arm lengths: 3 1/2" x 4 1/8"
- 1 5/8" wide

B-Line by EATON

Part No.	Approx. Arm Lengths (In.)	Wgt (Lbs.)
AB205	3 1/2 x 4 1/8	0.75
B104-B-LINE	4-1/8 X 4	0.81


AB227

2 HOLE 135° ANGLE

- Approximate arm lengths: 3" x 2 5/16"
- 1 5/8" wide
- 1/4" thick

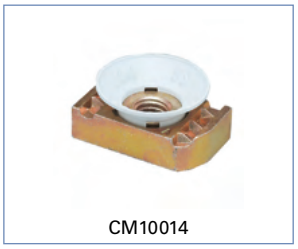
B-Line by EATON

Part No.	Approx. Arm Lengths (In.)	Wgt (Lbs.)
AB227	2 5/16 x 3	0.58
B101-B-LINE	1-5/8 X 2-5/16	0.37


G2011

2 HOLE FLAT PLATE

Part No.	Description	Wgt (Lbs.)
G2011	3 1/2" L x 1 5/8" W	0.35


CM10014

NYLON CONE NUT

CM Series: For all 1 5/8" channel. Will not fit B series channel.
UC Series: GoldGalv® finish. For use with all 1-5/8" and 1-1/2" channels and may be used with all strut depths. Can be used for CM-100, A-100, B-100 and AB-100 Series

B-Line by EATON

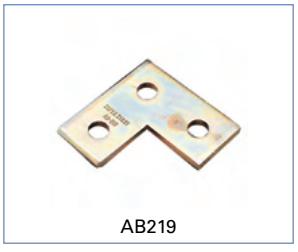
Part No.	Size (In.)	Wgt (Lbs.)
CM10014	1/4	0.07
CM10038	3/8	0.10
UC10012	1/2	0.12
CM10012	1/2	1.50


B10038

SHORT SPRING NUT

B-Line by EATON

Part No.	Size (In.)	Wgt (Lbs.)
B10038	3/8	0.10
A10038	3/8	0.09
A10012	1/2	0.081


AB219

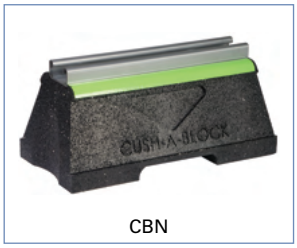
3 HOLE ANGLE PLATE

- Approximate overall arm length: 3 1/2" x 3 1/2"
- 1 5/8" wide

B-Line by EATON

Part No.	Approx. Arm Lengths (In.)	Wgt (Lbs.)
AB219	3 1/2 x 3 1/2	0.58

ROOFTOP SUPPORT SYSTEM



CBN

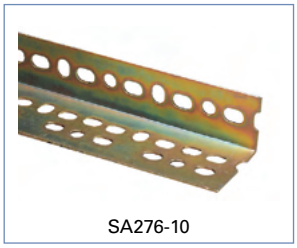
CUSH-A-BLOCK®

- 75% Faster Strut Install and Change-Out
- Built-in Channel Guide
- Easy-carry Hand Grip
- Embedded Fasteners
- Water Flow-through
- 100% Recycled Rubber Qualifies for LEED Credits
- Meets the Buy America Act and American Reinvestment Recovery Act
- Resistant to Freeze and Thaw
- Dampens Vibrations
- Compatible with Most Rooftop Materials
- Eco-Green Reflective Safety Strip Won't Peel or Flake

IRP International Refrigeration Products

Part No.	Description
CBN	Cush-A-block Rooftop SPRT, 10.5" X 5" X 4-13/16"
CBN1S	Cush-A-Block Rooftop Support System, 4 13/16" H x 10 1/2" L, 2500 Lbs Load
CBN1D	Cush-A-Block Rooftop SPRT, 10.5" X 5" X 5-5/8"
CBM1S	Cush-A-Block Rooftop Mini, 6-5/8" X 5" X 4-5/8"

SLOTTED ANGLE METAL LUMBER


SA276-10

ELECTRO-PLATED FINISH

Slotted angle is an all-purpose framing system, roll formed from high strength steel strips. It is designed to be used as economical shelving, racks or and mechanical supports. The unique pattern of horizontal and vertical slots permits full flexibility. Two basic sizes are available for light and medium duty applications.

- Standard finishes: electro-plated (ASTM B633 SC1). Other finishes are available.

B-Line by EATON

Part No.	Thickness (Ga)	Length (Ft.)	Width (In.)	Height (In.)	Wgt (Lbs.)
SA276-10	14	10.0	2 3/8	1 5/8	7.80
SA318-10	12	10.0	3 1/8	1 5/8	13.20

PIPE HANGER


12CH

CLEVIS HANGER

Used to support copper tubing and copper plated to match tube. It is made of steel and of sufficient weight to carry whatever load its size requires. It provides a vertical adjustment of approximately 1-1/2" after pipe is in place.

- Copper plated
- Approvals: Complies with Federal Specification WW-H-171 (Type 12)

Part No.	Tube Size (In.)	Rec. Safe Load (Lbs)	Rod Diameter (In.)	Bolt (In.)	Wgt (Lbs.)
12CH	1/2	450	3/8	1/4	0.16
34CH	3/4	450	3/8	1/4	0.16
1CH	1	450	3/8	1/4	0.19
114CH	1 1/4	450	3/8	1/4	0.22
112CH	1 1/2	450	3/8	1/4	0.29
2CH	2	450	3/8	1/4	0.32
212CH	2 1/2	450	1/2	1/4	0.72
3CH	3	600	1/2	1/4	0.82
312CH	3 1/2	600	1/2	1/4	0.91
4CH	4	600	1/2	5/16	1.07
5CH	5	900	5/8	3/8	1.76
6CH	6	900	5/8	3/8	1.92


12AB

COPPER A BAND

Used to support copper tubing. An all steel hanger formed in one piece giving a double thickness of stock at the point which carries the load.

- Copper plated
- Approvals: Complies with Federal Specification WW-H-171 (Type 7) and Manufacturers Standardization Society SP-69 (Type 7).

Part No.	Tube Size (In.)	Rec. Safe Load (Lbs)	Rod Diameter (In.)	Wgt (Lbs.)
12AB	1/2	610	3/8	0.11
34AB	3/4	610	3/8	0.11
1AB	1	610	3/8	0.11
114AB	1 1/4	610	3/8	0.12
112AB	1 1/2	610	3/8	0.14
2AB	2	610	3/8	0.16
212AB	2 1/2	970	1/2	0.16
3AB	3	970	1/2	0.38
4AB	4	970	5/8	0.45

PIPE HANGER


14SRH

COPPER SPLIT RING

Extension hanger ring. Malleable iron — copper plated. Manufactured to fit copper tubing.

- Approvals: Complies with Federal Specification WW-H-171 (Type 25) and Manufacturers Standardization Society SP-69 (Type 12)

Part No.	Nominal Tube Size (In.)	Rec. Max Load (Lbs.)	Dim. B (In.)	Tapping (In.)	Wgt (Lbs.)
14SRH	1/4	180	9/16	3/8	0.10
38SRH	3/8	180	5/8	3/8	0.12
12SRH	1/2	180	23/32	3/8	0.13
34SRH	3/4	180	13/16	3/8	0.15
1SRH	1	180	15/16	3/8	0.16
114SRH	1 1/4	180	1.15625	3/8	0.19
112SRH	1 1/2	180	1.21875	3/8	0.22
2SRH	2	180	1.4375	3/8	0.27
212SRH	2 1/2	480	1.9375	1/2	0.72


12VH

COPPER VAN

Copper plated. Stamped steel hanger for copper tubing is a strong, neat, and light concealed screw hanger. It supports the tubing one inch from back of tube to wall and has only two parts. It takes the place of rough unsightly looking hangers in a finished room and eliminates the use of ordinary pipe clips.

Part No.	Tube Size (In.)	Dim. A (In.)	Dim. B (In.)	Wgt/Ea. (Lbs.)
12VH	1/2	1.1875	1.625	0.10
34VH	3/4	1.3125	1.625	0.08
1VH	1	1.4375	1.625	0.09
114VH	1 1/4	1.5625	1.625	0.09
112VH	1 1/2	1.6875	1.625	0.10
2VH	2	1.8125	1.625	0.10

BEAM CLAMP


38BC

BEAM CLAMP

Top beam clamps are to be used on the top sections of beams and bar joists where the roof rests flat on top of the beam. Side beam clamps attach to the I beam flange and allow rod to be dropped at or near the edge of the beam

- Cast iron 3/8"-16 set screw
- Approvals: Underwriters approved (3/8" rod)

Part No.	Finish	Rod Diameter (In.)	Type	Wgt/Ea. (Lbs.)
38BC	Black	3/8	Top	0.33
38BCG	Galvanized	3/8	Top	0.33
38SBC	Black	3/8	Side	0.01
12BC	Black	1/2	Top	0.38
12BCG	Galvanized	1/2	Top	0.34

C CLAMP

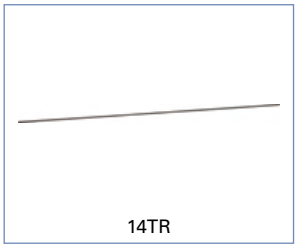

38CC

C clamp with locking nut. Stamped steel. The locking nut when tightened prevents loosening due to vibration, thus elminating the necessity of using retaining clips.

- Approvals: Underwriters' Laboratories listed and Factory Mutual Approved.

Part No.	Finish	Rec. Max Load (Lbs.)	Dim. A (In.)	Set Screw (In.)	Wgt/Ea. (Lbs.)
38CC	Black	400	3/8	3/8 x 2	0.16
38CCG	Galvanized	400	3/8	3/8 x 2	0.13
12CC	Black	500	1/2	1/2 x 2	0.4
12CCG	Galvanized	500	1/2	1/2 x 2	0.36

THREADED ROD


14TR

All-thread hanger rod has a standard thread running its entire 6' length. Furnished black and electrogalvanized.

- Sold in 6' lengths; 12/38TRG10 sold in 10' lengths; all are PRICED PER FOOT
- 38X3ROD (3 inches long) priced per each

Part No.	Finish	Rod Diameter (In.)	Rec. Max Load (Lbs.)	Feet/ Bundle	Weight/Ft (Lbs.)
14TR	Black	1/4	240	600	0.12
14TRG	Galvanized	1/4	240	600	0.12
38TR	Black	3/8	610	300/150	0.3
38TRG	Galvanized	3/8	610	300/150	0.3
38TRG10	Galvanized	3/8	610	150	0.3
38TRG12	Galvanized	3/8	610	150	0.3
38X3ROD[1]	Copper	3/8	610	3"	1.11
12TR	Black	1/2	1130	600	0.54
12TRG	Galvanized	1/2	1130	600	0.54
12TRG10	Galvanized	1/2	1130	150	0.54
58TRG	Galvanized	5/8	1810	90	0.85

1 For use with split ring hangers and/or 38BP wall plate. Copper plated.


14RC

ROD COUPLING

*G suffix: galvanized

Part No.	Size (In.)
14RC	1/4
38RC	3/8
12RC	1/2
38RCG	3/8
12RCG	1/2


NRH1W

ROD ANCHOR

- One piece threaded rod hanging system for wood, similar to "Sammy Screws"
- Applications include HVAC ductwork and strut channels, hanging pipe and sprinkler systems, suspending conduit and cable trays, and lighting systems and overhead utilities, among others .

Part No.	Description	Rod Diameter (In.)	Pkg Qty
NRH1W	Vertical (Straight) Entry for 3/8" Threaded Rod, 1" Long	3/8	36
NRH2W	Vertical (Straight) Entry for 3/8" Threaded Rod, 2" Long	3/8	24
NRH2WS	Horizontal (Side) Entry for 3/8" Threaded Rod, 2" Long	3/8	24


38BP

ROD ANCHOR

Part No.	Description	Rod Diameter (In.)
38BP	Copper Plated Anchor Plate	3/8
12BP	Copper Plated Anchor Plate	1/2
38LS	Black Lag Screw	3/8


NRHC

ROD HANGER SCREW

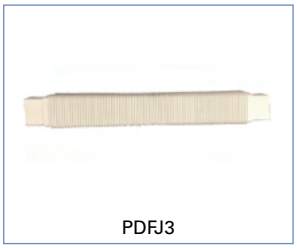
Part No.	Description	Rod Diameter (In.)	Pkg Qty
NRHC	Rod anchor screw for concrete, 3/8" x 1 5/8", (includes 1/4" bit)	3/8	24
NRHCT	Rod hanger screw drive socket, concrete, for 3/8" rod	3/8	1

TUBE SHROUD, PLASTIDUCT

FLEXIBLE JOINT

Decorative tubing cover designed to organize, protect and beautify outdoor lineset installations

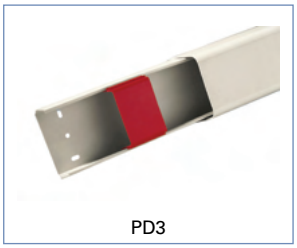
- Permanent base, removable cover...clips hold tubing in place
- High quality, paintable PVC
- Quick and easy installation
- UV and shock resistant
- Non-flammable UL94
- Temperature range -4° to +140°F



PDFJ3

FLEXIBLE JOINT

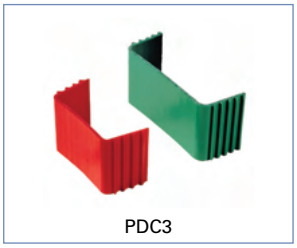
Part No.	Description
PDFJ3	Flexible Joint, 24"



PD3

TRUNK, 78" LENGTH

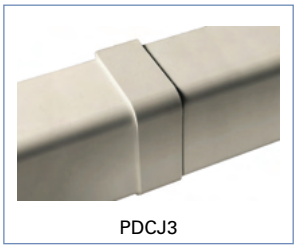
Part No.	Description
PD3	6 1/2' L x 3 1/4" W x 2 1/3" H
PD4	6 1/2' L x 4 1/3" W x 3" H



PDC3

TUBE CLIP

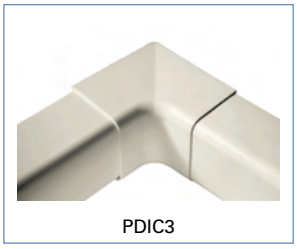
Part No.	Description
PDC3	Tube Clip, Red, PD3
PDC4	Tube Clip, Green, PD4



PDCJ3

COVER JOINT

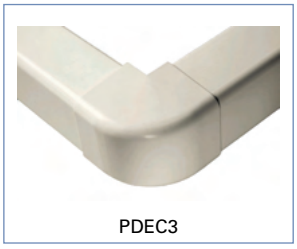
Part No.	Description
PDCJ3	Cover Joint, PD3
PDCJ4	Cover Joint, PD4



PDIC3

INTERNAL CORNER

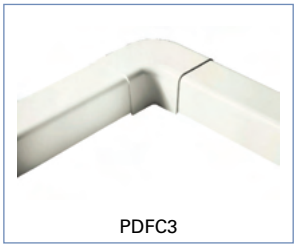
Part No.	Description
PDIC3	Inside Corner, PD3
PDIC4	Inside Corner, PD4
PDAIC3	Inside Corner, Adjustable, 80° to 105°, PD3



PDEC3

EXTERNAL CORNER

Part No.	Description
PDEC3	Outside Corner, PD3
PDEC4	Outside Corner, PD4
PDAEC3	Outside Corner, Adjustable, 70° to 120°, PD3



PDFC3

FLAT CURVE

Part No.	Description
PDFC3	Flat Curve, PD3
PDFC4	Flat Curve, PD4

PLANE CURVE



PDAPC3

Part No.	Description
PDAPC3	Plane Curve, PD3

END CAP



PDECAP3

Part No.	Description
PDECAP3	End Cap, PD3

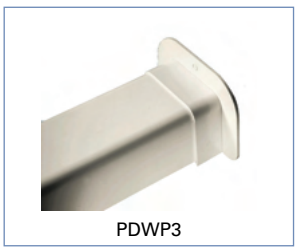
CORNER WALL ELBOW



PDWE3

Part No.	Description
PDWE3	Wall Elbow, PD3
PDWE4	Wall Elbow, PD4

WALL PASSAGE



PDWP3

Part No.	Description
PDWP3	Wall Passage, PD3
PDWP4	Wall Passage, PD4

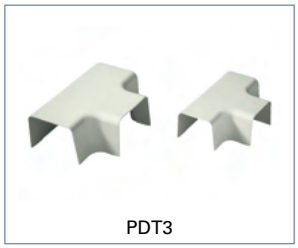
REDUCER



PDR4

Part No.	Description
PDR4	Reducer, 4.33 x 3.25

TEE



PDT3

Part No.	Description
PDT3	Tee, PD3
PDT4	Tee, PD4

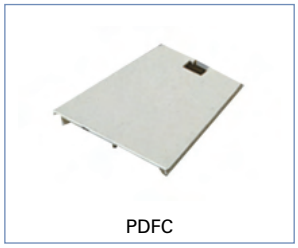
MOUNTING BRACKET

CONDENSER RISERS, 4"



PDF18

Part No.	Holding Capacity (Lbs.)	Length (In.)
PDF18	40.0	17.70
PDF39	40.0	39.00
PR351NM	40.0	18.00



PDFC

Part No.	Length (In.)	Description
PDFC	4.00	Condenser Riser End Cap

PIPE HEATING CABLE



HC1206

HEATING CABLE WITH INTERNAL REGULATION

- Application: wet and dry, pipe freeze protection
- Standard approved: cETLus

IRP International Refrigeration Products

Part No.	Watt/Foot	Length (Ft.)	Voltage	Plug Size (In.)
HC1206	5	6.0	120	NEMA 5-15
HC12012	5	12.0	120	NEMA 5-15
HC12018	5	18.0	120	NEMA 5-15
HC12024	5	24.0	120	NEMA 5-15
HC2406	5	6.0	240	Cut and Stripped Ends
HC24012	5	12.0	240	Cut and Stripped Ends
HC24018	5	18.0	240	Cut and Stripped Ends
HC24024	6	24.0	240	Cut and Stripped Ends



PHC12050

HEATING CABLE

- Standard approved: cULus (UL Listed)
- Sold by the foot

IRP International Refrigeration Products

Part No.	Watt/ Foot	Length (Ft.)	Volt-age	Application	Plug Size (In.)
PHC12050	5	50.0	120	Piping	Cut Ends
PHC120100	5	100.0	120	Piping	Cut Ends
PHC120250	5	250.0	120	Piping	Cut Ends
PHC24050	5	50.0	240	Piping	Cut Ends
RPHC12050	5	50.0	120	Roof/Gutter/ Downspout/Pipe	Cut Ends
RPHC24050	5	50.0	240	Roof/Gutter/ Downspout/Pipe	Cut Ends



HCATL

ACCESSORIES

IRP International Refrigeration Products

Part No.	Use with	Description
HCATL	Heat Cables	Tape (66 Ft.) and Electrical Traced Labels
HCCK	PHC and RHC Cables	Installation Kit w/ 14 Items Included

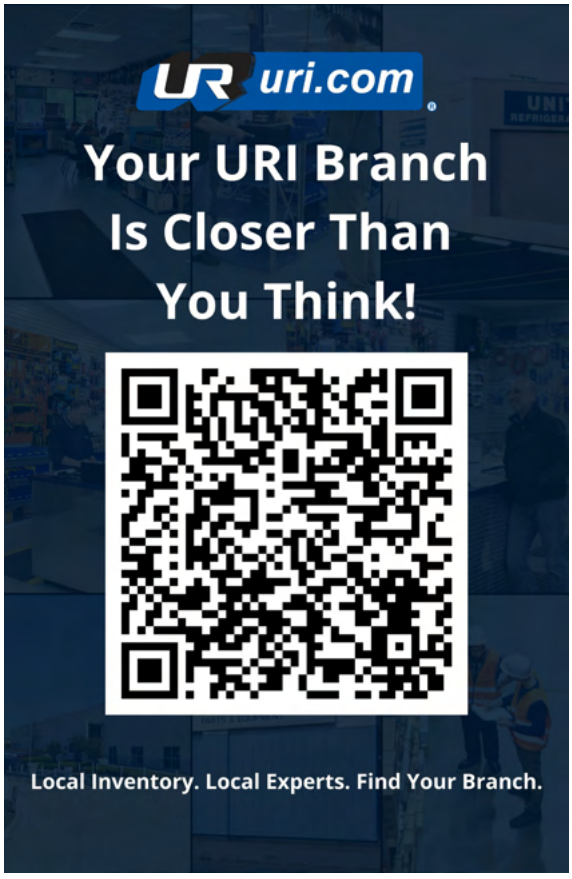


H612FT

WATERPROOF JACKET OVER METAL SHIELD

PENTAIR

Part No.	Watt/Foot	Voltage
H612FT	6	120
H622FT	6	240



METAL SHIELD


H611FT

Part No.	Watt/Foot	Length (Ft.)	Voltage
H611FT	6	1.0	120
H621FT	6	1.0	240

ACCESSORIES


H908

Part No.	Description
H908	Plug-In Cord Set with Ground Fault Interrupter
H910	Splice and Tee Kit
H912	Gel-Filled End Seal Kit

PRE-ASSEMBLED 120V

- With plug and end termination


FG16P

Part No.	Watt/Foot	Length (Ft.)
FG16P	6	6.0
FG112P	6	12.0
FG118P	6	18.0
FG124P	6	24.0

PRE-ASSEMBLED 240V

- With end termination


FG26L

Part No.	Watt/Foot	Length (Ft.)
FG26L	6	6.0
FG212L	6	12.0

CRANKASE HEATER

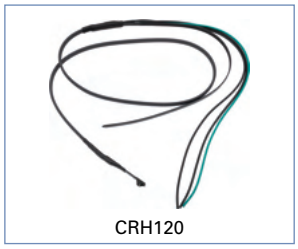
INSERTION, 1/2" NPT

- Copeland replacement


32408

Part No.	Voltage
32408*	460
32409*	208-230
32410*	115

CRANKCASE HEATER


CRH120

Part No.	Voltage	Watt/Foot
CRH120	115	8
CRH240	208-230	8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TUBING


38FGPCS

- TracPipe® Counterstrike® with no additional bonding is more resistant to lightning's effects than yellow CSST with additional bonding.
- Heavy one piece abrasion and lightning resistant jacket, pulls easier and lays straighter decreasing install time.
- Highest Pressure Ratings. Tested by IAS (AGA Labs) for ratings up to 125 PSI working pressure.
- Highest TracPipe® Counterstrike® CSST is sized exactly the same as conventional yellow TracPipe CSST and uses the same patented AutoFlare fitting.
- Rolls without length suffix sold by the foot
- Rolls with length suffix sold by roll

OmegaFlex TracPipe

Part No.	Nominal Size (In.)	Reel Qty (Ft)	Weight/Reel (Lbs.)
38FGPCS	3/8	250	37
12FGPCS	1/2	250	52
34FGPCS	3/4	250	70
1FGPCS	1	180	70
114FGPCS150	1 1/4	150	78
114FGPCS	1 1/4	250	129
38FGPCS100	3/8	100	17
12FGPCS050	1/2	50	14
12FGPCS100	1/2	100	24
12FGPCS500	1/2	500	98
34FGPCS050	3/4	50	18
34FGPCS100	3/4	100	17
1FGPCS050	1	50	22

AUTOFLARE FITTING

COUPLING AF X AF


38FGPC

OmegaFlex TracPipe

	Connection Size (In.)		
Part No.	Autoflare	Box Qty*	Wgt/Ea. (Lbs.)
38FGPC	3/8	24	0.30
12FGPC	1/2	24	0.50
34FGPC	3/4	16	0.64
1FGPC	1	16	0.89

STRAIGHT FITTING AUTOFLARE™ X MPT


38FGPF

OmegaFlex TracPipe

	Connection Size (In.)			
Part No.	Autoflare	MPT	Box Qty*	Wgt/Ea. (Lbs.)
38FGPF	3/8	1/2	24	0.70
12FGPF	1/2	1/2	24	0.40
34FGPF	3/4	3/4	16	0.50
1FGPF	1	1	16	0.30
114FGPF	1-1/4	1 1/4	6	1.50

SPARE SPLIT RING


38SPLITRING

OmegaFlex TracPipe

Part No.	Size (In.)	Box Qty*	Wgt/Ea. (Lbs.)
38SPLITRING	3/8	10	0.06
12SPLITRING	1/2	10	0.01
34SPLITRING	3/4	10	0.06


FGPTF500T500

TEE FITTING AF X AF X AF (BRANCH)

- Autoflare™ fitting run and branch

OmegaFlex TracPipe

	Connection Size (In.)		
Part No.	Autoflare	Box Qty*	Wgt/Ea. (Lbs.)
FGPTF500T500	1/2	14	1.00
FGPTF750T750	3/4	12	1.60
FGPTF1000T1000	1	10	2.20


FGPT500500

TEE FITTING AF X AF X FPT (BRANCH)

- Autoflare™ fitting run x female pipe thread branch

OmegaFlex TracPipe

Part No.	Description	Box Qty*	Wgt/Ea. (Lbs.)
FGPT500500	1/2″ AF run x 1/2″ FPT branch	14	1.49
FGPT500750	1/2″ AF run x 3/4″ MPT branch	12	1.00
FGPT10001000	1″ AF run x 1″ FPT branch	10	2.20
FGPT750500	1/2″ x 3/4″ x 1/2″ FNPT Reducing	12	1.60

AUTOFLARE TERMINATION MOUNT


FGPFF375

FLANGE MOUNT FITTING

Termination outlet for movable appliances and quick disconnect devices. Autoflare™ flange x MPT.

OmegaFlex TracPipe

	Connection Size (In.)			
Part No.	Autoflare	MPT	Box Qty*	Wgt/Ea. (Lbs.)
FGPFF375	3/8	1/2	12	1.00
FGPBFF1000	1	1	8	1.50


FGPTM750

PIPE TERMINATION MOUNT

OmegaFlex TracPipe

	Connection Size (In.)			
Part No.	Autoflare	MPT	Box Qty*	Wgt/Ea. (Lbs.)
FGPTM750	3/4	3/4	8	1.10



TRACPIPE MANIFOLD



FGPMIPC

OmegaFlex TracPipe

Part No.	Description	Wgt/Ea. (Lbs.)
FGPMIPC	Malleable Iron, Plastic Coated, 4 Ports 1/2 " Female, Inlets 1/2 " and 3/4" Female	1.90
FGPMB2	Mounting Bracket, FGPMIPC manifolds	0.99

TRACPIPE PROTECTION DEVICE

STRIKER PLATES



FGPSP025

OmegaFlex TracPipe

Part No.	Description	Wgt (Lbs.)
FGPSP025	Quarter Striker Plate, 3" x 7"	0.08
FGPSP050	Half Striker Plate, 3" x 7"	0.40
FGPSP100	Full Striker Plate, 3" x 12"	0.60
FGPSP617	Large Striker Plate, 6-1/2" x 17"	1.80

FLASHING SYSTEM



22015

ASSEMBLY

Alumi-Flash is compatible with all types of roof systems and makes pitch pans obsolete. Due to the flexibility of the EPDM rubber caps, roof leaks are eliminated because penetrations are allowed to expand, contract, and vibrate independently of the waterproofing. The caps are molded EPDM (Ethylene Propylene Diene Monomer) rubber which is compounded to resist degradation due to oxidation or exposure to ozone and ultraviolet rays, while having a serviceable temperature range of -60 to +270°F. The base must be roofed in, using good roofing practices.

- Includes 29015 base with the various cap choices
- With clamps

PORTALSPLUS

Part No.	Cap	Box Qty*
22015	29215	5
22025	29225	5
22035	29235	5
22045	29245	5
22051	29255	1



29015

ALUMI-FLASH BASE

PORTALSPLUS

Part No.	Flange Diameter (In.)	Flange Width (In.)	Opening Diameter	Height (In.)	Box Qty*
29015	14	3	8	4.00	5
29025[1]	22	4	14	5.00	5
29035	18	5	8	4.00	5
29045	14	3	8	14.00	4

1 For 29255 only



29235

CAP WITH CLAMP

Use PP130 Series adapters for retrofitting 2" cones on 29225 and 29235 to smaller diameter tubing

PORTALSPLUS

Part No.	Description	Color	Box Qty*
29245	(4) .375 - 1" Pipes	Black	5
29235	(4) 1 - 2" Pipes	Black	5
29215	(1) 2 - 6" Pipe	Black	5

Continued on next page

Part No.	Description	Color	Box Qty*
29255[1]	(1) 8 - 12" Pipe	Black	5
29225	(2) .375 - 1" Pipes and (2) 1 - 2" Pipes	Black	5
29265	(1) 2 - 6" Pipe	White	5
29275	(2) .375 - 1" Pipes and (2) 1 - 2" Pipes	White	5

1 Use with 29025


120-15

RETROFIT

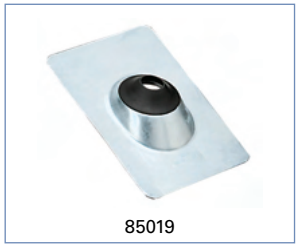
The retrofit flashing offers a quick and easy installation, eliminating roof leaks at pipes and other roof penetrations without disconnecting the penetration. The perfect seal is achieved with an integral tongue and groove closure, plus an overlapping flap, and is mechanically fastened with stainless steel hardware (included). Retrofit flashings are available in neoprene for built-up asphalt, coal tar pitch, modified bitumen, and cold process systems.

PORTALSPLUS

Part No.	Diameter (In.)	Height (In.)	Application Diameter (In.)	Box Qty*
120-15[1]	11.00	5.50	0.5 to 3	5
120-25[1]	14.50	1.00	0.5 to 6	5

1 With adapters

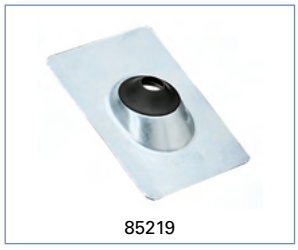
SHINGLE FLASHING


85019

GALVANIZED BASE

PORTALSPLUS

Part No.	Pipe Size (In.)
85019	2
85029	3
85039	4


85219

ALUMINUM BASE

PORTALSPLUS

Part No.	Pipe Size (In.)
85219	2
85229	3
85239	4


85319

THERMOPLASTIC BASE

PORTALSPLUS

Part No.	Pipe Size (In.)
85319	2
85329	3
85339	4


43170

PIPE BOOT

Economical flashing designed for single pipe penetrations on single ply rubber roofs. The conically shaped steps of the pipe flashing will securely seal all pipes and the large double thick molded rib at the top of each step offers supreme tear resistance and reinforcement, as well as a cutting guide.

PORTALSPLUS

Part No.	Size (In.)	Box Qty*
43170	1 - 6 7/8	10

CURB SYSTEM CAP


32005

PORTALSPLUS

Part No.	Cap	Box Qty*
32005	29215	5
32015	29225	5
32025	29235	5
32035	29245	5
32041	29255	1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NEW CONSTRUCTION CURB SYSTEM


32111

Roof curbs have an integral base plate, continuously welded corner seams, factory-installed wood nailer, and 1.5" 3 lb. rigid fiberglass insulation. Designed for use with 320 curb cover components.

PORTALSPLUS

		Curb Dimensions (In.)			
Part No.	Curb Type	L	W	H	Flange Width (In.)
32111	Canted	12.0	12.0	8.0	4.0
32141	Canted	20.0	20.0	8.0	4.0
32171	Canted	28.5	13.0	8.0	4.0
32101	Straight	12.0	12.0	11.0	1.5
32131	Straight	20.0	20.0	11.0	1.5
32161	Straight	28.5	13.0	11.0	1.5
32121	Raised Canted	12.0	12.0	9.5	4.0
32151	Raised Canted	20.0	20.0	9.5	4.0
32181	Raised Canted	28.5	13.0	9.5	4.0

EQUIPMENT RAIL


35231

Equipment rails are prefabricated sheet steel structural members designed for all types of roof systems. Manufactured in 3', 4', and 6' lengths to match the equipment and to span the proper number of roof joists. Equipment rails have a high bearing capacity attained by a system of internal gussets welded into position at specific intervals along the length of the rails. A continuous wood nailer covered by a removable counterflashing provides for an effective method of attaching roofing felts and assuring a watertight installation.

PORTALSPLUS

		Dimensions			
Part No.	Type	H (In.)	W (In.)	L (Ft.)	Ship Wgt (Lbs.)
35231	ER2A	12.00	3.50	3.0	28.20
35241	ER2A	12.00	3.50	4.0	35.25
35261	ER2A	12.00	3.50	6.0	57.20
35331	ER3A	8.00	3.50	3.0	29.20
35341	ER3A	8.00	3.50	4.0	36.20
35361	ER3A	8.00	3.50	6.0	54.20
ER35431	ER4A	9.50	3.50	3.0	32.20
ER35441	ER4A	9.50	3.50	4.0	40.43
ER35461	ER4A	9.50	3.50	6.0	58.20

DECK MATE

EPDM (LOW TEMP.)

The Portals Plus Deck-Mate is designed to accommodate projections from .125" to 26" in diameter, and work in conjunction with any configuration of corrugated metal roof. The Deck-Mate is engineered so the aluminum flanged base bends to any contours, roof irregularities, or pitches. The Deck-Mate seals watertight to the roof panel with an approved sealant and standard roofing fasteners.

- With clamps


81006

EPDM (LOW TEMP.)

PORTALSPLUS

Part No.	Size (In.)	Box Qty*
81006	1/8 - 3/4	15
81016	1/4 - 2	15
81026	1 3/4 - 3 1/4	15
81036	1/4 - 4	15
81040	3 - 6	10
81050	4 - 7	10
81060	5 - 9	10
81070	6 - 11	10
81085	7 - 13	5
81101	13 - 26	1


82016

SILICONE (HIGH TEMP.)

PORTALSPLUS

Part No.	Size (In.)	Box Qty*
82016	1/4 - 2	15
82026	1 3/4 - 3 1/4	15
82036	1/4 - 4	15
82040	3 - 6	10
82050	4 - 7	10
82060	5 - 9	10
82070	6 - 11	10
82085	7 - 13	5
82101	13 - 26	1








	Page
• Thermostat	738-756
• Temperature	757-773
• Pressure	774-790
• Timer	791-798
• Heating, Gas Burner	799-823
• Heating	824-846
• Commercial, Valve	847-849
• Commercial, Actuator	850-864
• Commercial	865-878

	Page
• Pneumatic, Johnson Controls	878-887
• Pneumatic, Honeywell	888-892
• Pneumatic, Robertshaw	893-895
• Pneumatic, Barber Coleman	896-897
• Pneumatic, KMC Controls	898-899
• Pneumatic, Siemens	900
• Pneumatic, Tubing	901-902
• Electrical Devices and Accessories	903-945

ELECTROMECHANICAL


T812A1002

HEAT ONLY, T812 SERIES

Provides SPST control of 24 Vac residential heating systems.

- Coiled bimetal element operates snap-action switch

Honeywell Home

	Stages		
Part No.	Cool	Heat	Temperature (°F)
T812A1002	-	1	50-90


T822K1000

MERCURY-FREE ECONOSTAT

- Low voltage thermostat
- Vertical mounting
- Coiled bimetal element operates snap action switch
- SPST switch
- Vented covers-better air flow-improved temperature sensing
- Premier White color
- T827K provides control of 0.1A circuits in millivoltage, 12 VDC, and 24 Vac heating systems.
- T822L is heat only for normally open hot water zone valves
- T822L: scale in Farenheit and Celcius

Honeywell Home

	Stages		
Part No.	Cool	Heat	Temperature (°F)
T822K1000	-	1	45-95
T822K1042	-	1	35-85
T822L1000	1	-	45-95
T827K1009	-	1	50-90


T834N1002

MERCURY-FREE ECONOSTAT

- Low voltage heating thermostat
- Vertical mounting
- Coiled bimetal element operates snap action switch
- Vented covers-better air flow-improved temperature sensing
- Premier White color

Honeywell Home

	Stages			Switching		
Part No.	Cool	Heat	Temperature (°F)	System	Fan	Changeover
T834N1002	1	1	50-90	H/O/C	A/O	Manual


1C20-102

SNAP ACTION

For low voltage single stage heating and cooling installations where a snap-action control is desired.

- Voltage: mV to 30 Vac maximum
- Snap action contacts
- Vertical orientation
- Bi metal thermometer
- 1C26101 includes "A" terminal for electric heat systems

EMERSON

	Stages			Switching	
Part No.	Cool	Heat	Temperature (°F)	System	Fan
1C20-102	-	1	50-90	H/O	-
1C26101	1	1	50-90	H/O/C	A/O


1E30N910

SNAP ACTION

For low voltage heating, cooling, and zoning installations where a snap-action control is desired.

- Voltage: 30 Vac maximum
- Snap action contacts
- Vertical orientation
- Suitable for zoning applications

EMERSON

	Stages		
Part No.	Cool	Heat	Temperature (°F)
1E30N910	-	1	50-90


1E56N444

HEAT/COOL

- Single stage heating/cooling
- Voltage: 30 Vac maximum
- Switching: C/O/H, A/O
- Temperature range: 50 to 90°F
- SPDT
- Contact Type: enclosed snap switch
- Bi-metal thermometer
- Mercury free

EMERSON

	Stages			Switching	
Part No.	Cool	Heat	Temperature (°F)	System	Fan
1E56N444	1	1	50-90	C/O/H	A/O
1F56N444	1	1	50-90	C/O/H	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, NON PROGRAMMABLE



TH1110U4000

N100 FOCUSPRO NON-PROGRAMMABLE THERMOSTAT

The Honeywell Home FocusPRO® N100 is designed for pro ease-of-use and profitability. It reduces job complexities and time on-site while supporting recurring business thanks to its broad system compatibility, UWP® wall plate, large display and clear font, snap-on private label, and competitive price.

- Supports single-stage 1H/1C for TH1110U4000/U or up to 3H/2C heat pump and 2H/2C conventional for TH1320U4002/U
- UWP® wall plate supports speedy installation and easy upgrade
- Private label with customized snap-on accent piece
- Large display with clear font
- Optional always-on backlight when hardwired
- Customizable display settings
- Intuitive interface for easy navigation
- Choose to receive filter reminders
- Heat low limit defaults to 40°F (4°C) but configurable to 32°F (0°C) for garage applications
- Fan lockout after cool call option

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH1110U4000	1	1	H/O/C	A/O
TH1320U4002	3	2	H/O/C/A/EM.HT	A/O



TH1100DV1000

PRO 1000 SERIES

- Voltage: 20 to 30 Vac or 750 mV
- Battery or hardwire
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH1100DV1000	1	-	H/O	-
TH1110DV1009	1	1	H/O/C	A/O
TH1210DV1007	2	1	H/O/C/EM. HT	A/O



TH5320R1002

FOCUSPRO® WIRELESS

Easily add a zone to a TrueZONE™ system without running new wires.

- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Works with compatible RedLINK™ enabled devices
- Large, clear, backlit display:
- Easy-to-see and read even in the dark.
- Precise comfort control: ±1°F of your set temperature.
- Simplified operation: Soft-key controls.
- Simultaneously displays both room temperature and temperature setting.
- Easy change battery holder.
- Built-in compressor protection: Minimum-off timer protects compressor from restarting too early after a shutdown.
- Changeover: automatic or manual
- Battery
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH5320R1002	3	2	H/O/C/A/EM	A/O



TH1110D2009

T1 PRO

Includes: thermostat, UWP mounting system, installation (J-box) adaptor, small decorative cover plate, screws and anchors, installation guide, user guide, and 2 AA batteries

- Battery or hardwire
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH1110D2009	1	1	H/O/C/O	A/O



T87K1007

THE ROUND®, ELECTRONIC

Provide electronic control of 24 Vac heating and cooling systems.

- Mercury free
- Manual changeover
- Thermistor sensor element
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
T87K1007	1	-	O/H	-
T87N1000	1	1	C/O/H	A/O
T87N1026	1	1	C/O/H	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, NON PROGRAMMABLE



1F89211

HEAT/COOL

80 Series

- Hardwired (1F89), Hardwired or battery (1F83)
- Fossil fuel or electric heat compatible
- Large LCD display with backlight
- Permanent program retention during power loss
- Configuration menu allows keypad selection of options
- Selectable °C or °F temperature display
- Classic White color

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1F89211	2	1	H/O/C/EM	A/O



1F86344

HEAT/COOL

The 1F86 digital thermostats are battery powered and compatible with most heating and cooling systems.

- For heating, cooling, electric heat, 1-stage heat pump
- Temperature range: 45 to 90°F
- Voltage: millivolt to 30 Vac
- Large LCD display
- Battery powered

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1F86344	1	1	H/O/C	A/O



1F78144

SINGLE STAGE

Comfort-Set® 70 Series 1 Heat/1 Cool.

- Battery powered for maximum compatibility
- Fossil fuel or electric heat compatible
- Large LCD with backlight
- Selectable °C or °F temperature display
- Includes O and B terminals
- Classic White color

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1F78144	1	1	H/O/C	A/O



1E78144

ECONOMY

- Fossil fuel or electric heat compatible.
- Large LCD with backlight.
- Terminal Load: 1.0 A per terminal, 1.5A maximum all terminals combined
- Dimensions: 3 3/4"H x 5 1/8"W x 1 1/8"D
- Battery powered

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1E78144	1	1	C/O/H	A/O



1F890211

BLUE™ 2"

- 2-square-inch Blue™ display with easy-to-see characters
- Exclusive Cool Savings™ feature saves energy during peak A/C demand periods
- Lighted display for easier low-light viewing
- Easy-to-wire push-connect color coded terminals
- Dimensions: 4.8" W x 3.8" H x 1.5" D
- 0 to 30 VAC, 50/60 Hz or DC
- 0.05 to 1.5 Amps (load per terminal)
- 1.5 Amps maximum load (all terminals combined)
- Temperature Range: 45 to 90°F
- Rated differential: 0.6 to 1.7°F with adjustable anticipation
- Long battery life: uses 2 "AA" alkaline batteries (included)
- Exclusive battery power monitor
- 5-year warranty

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Display
1F890211	2	1	H/O/C/A/EM	A/O	2"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



1F83C11NP

80 SERIES

- Attractive Sensi thermostat styling for non-wi-fi applications.
- Bright, high contrast backlight.
- Built-in level indicator
- Terminal block connections on subbase
- Keypad lockout and adjustable heat/cool temperature limits
- Permanent program retention during power loss
- Display temperature range: 32 to 99°F
- Dimension: 3 3/4" H x 6" W x 1 1/8" D
- Hardwire or battery powered

EMERSON

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1F83C11NP	1	1	H/O/C	A/O
1F83H21NP	1	2	C/H/O	A/O
1F85U22NP	1 HP, 2 Conv.	2	AUTO	AUTO
1F85U42NP	4	2	AUTO	AUTO

DIGITAL, PROGRAMMABLE



1F76U22WFB

SENSI LITE SMART THERMOSTAT

The Sensi™ Lite smart thermostat puts energy savings in easy reach. Installation is quick and simple—no common wire required with most systems. The controls are familiar and intuitive. And, best of all, your usage activity and personal data stays private.

- SCREEN TYPE/SIZE - LCD/2.25"
- SYSTEM TYPE - 2H/1C or 1H/2C
- ANNUAL ENERGY SAVINGS1 - About 23%
- MOBILE APP - iOS, Android
- SMART HOME COMPATIBILITY - Alexa, Google, SmartThings
- WI-FI NETWORK COMPATIBILITY - 2.4GHz
- CONTRACTOR BRANDING - Digital
- PRO WARRANTY - 5 years

White-Rodgers

	Dimensions (In.)			
Part No.	H	D	W	Ship Wgt (Lbs.)
1F76U22WFB	3.13	0.88	0.88	1.00



YTHM1004R3000

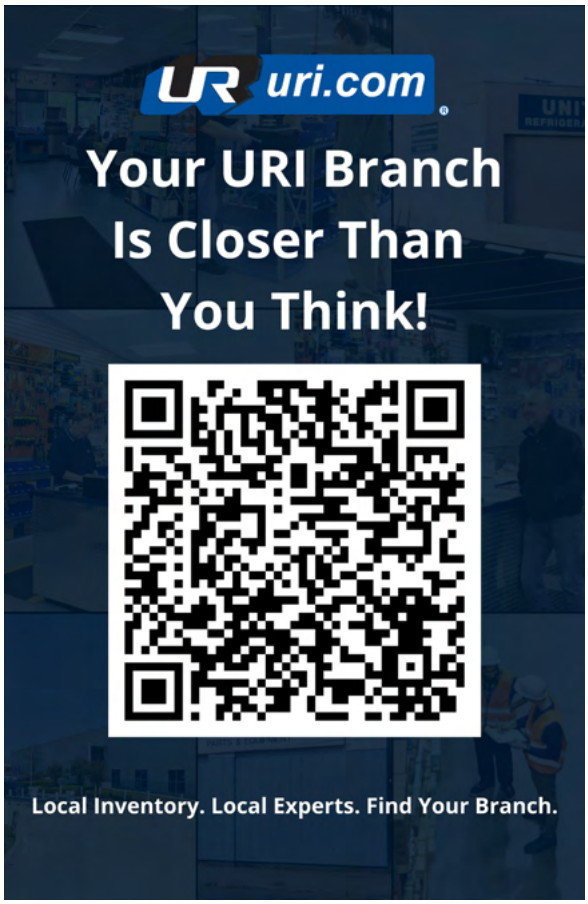
T10+ THERMOSTAT

The T10 or T10+ Smart Thermostat features an effortless, 7-Day programmable touchscreen thermostat. Compatible with 24 VAC systems including:

- Up to 3 Heat/2 Cool heat pump systems (4 heat with T10+ & EIM)
- Up to 2 Heat/2 Cool conventional (3 Heat/2 Cool with T10+ & EIM)
- Dual Fuel systems
- Radiant hot water systems including hot water fan coil
- Humidification, dehumidification, or ventilation (All three with T10+ & EIM)
- YTHM1004R3000 - T10+ Thermostat, EIM, RATS/DATS, Wireless Indoor Sensor
- YTHM1004R3001 - T10+ Thermostat, EIM, RATS/DATS, Wireless Indoor Sensor, Wireless Outdoor Sensor

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
YTHM1004R3000	4 HP, 3 Conv.	2	H/C/A/O/EM	A/O/CIRC
YTHM1004R3001	3 HP, 2 Conv.	2	H/C/A/O/EM	A/O/CIRC



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, PROGRAMMABLE



SYST0101CW

ION™ SYSTEM CONTROL

- High resolution, smartphone-like touchscreen
- Wi-Fi® enabled for remote access and control
- Pair with our communicating, modulating gas furnace; variable-speed fan coil; inverter-driven outdoor units; and zoning system for a complete Ion™ Comfort System
- Capable of controlling temperatures and fan speeds in up to eight zones
- Real-time energy use tracking
- Local weather 5-day forecast
- Humidity control for enhanced comfort
- Dual fuel system management capable
- Auto changeover between heating and cooling
- Four levels of "constant ON" fan speeds
- 7-day programming with temperature control throughout the day and week (wake, away, home, sleep)
- Advanced smart setback for optimal energy savings during "away" and ramp up periods
- One-button Touch-N-Go® quick-settings-change feature
- Simple vacation programming controls temperature and humidity
- System maintenance reminders
- 10-Year No Hassle Replacement™ Limited Warranty
- 10-year parts limited warranty

Arcoaire Air Conditioning & Heating

Part No.	Description	Use with
SYST0101CW*	Ion™ System Control, touch-screen, wifi, 7 day programmable. 4.7" H x 5.6" W x 1.1" D	Arcoaire Communicating Equipment


C7089U1006

REMOTE SENSOR

Use with VisionPRO™, regular and IAQ thermostats

Honeywell Home

Part No.	Description
C7089U1006	Remote Outdoor Sensor
C7189U1005	Premier White® Remote Indoor Sensor


C7089R1013

TEMPERATURE AND HUMIDITY SENSOR

Honeywell Home

Part No.	Description
C7089R1013	Outdoor Temperature and Humidity Sensor for RedLINK™ enabled thermostats and accessories
C7189R1004	Wireless Indoor Temperature and Humidity Sensor for RedLINK™ enabled thermostats and accessories



REM5000R1001

PORTABLE COMFORT CONTROL

- No interference with other wireless devices in the home
- Can display outdoor temperature and humidity
- Built-in pager with an audible noise helps locate the device in the home
- Screen-lock feature helps prevent accidental changes
- View and adjust all RedLINK™ enabled thermostats from a single control.
- Controls up to 16 thermostats

Honeywell Home

Part No.	Description
REM5000R1001	Personal Comfort Station™. Works with compatible RedLINK™ enabled thermostats and accessories.


YTHM5421R1010

PRESTIGE® 2-WIRE IAQ EQUIPMENT INTERFACE MODULE KIT WITH 2 DUCT SENSORS

Honeywell Home

Part No.	Description
YTHM5421R1010	Prestige® IAQ 2.0 Equipment Interface module kit, includes: THM5421R1021 Equipment Interface Module and 2 Duct Sensors. RedLINK™ Enabled. Controls up to 4H/2C HP and up to 3H/2C Conv. Systems.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



YTH8321R1002

VISIONPRO® 8000

- RedLINK™ wireless communication.
- Selectable for residential and light commercial applications. Meets commercial code and is title 24 compliant.
- Light commercial - commercial language (occupied and unoccupied), schedule holidays and custom events, remote setback, economizer and time of day.
- Remote Setback requires the THM5421R1021 Equipment Interface Module.
- Plain language setup, no manual needed.
- Customizable Service Reminders allow dealers to remind their customers when its time to call for service, when their warranty is expiring and to provide customized alerts.
- MicroSD port for copying the Installer Setup, Customizable Reminders, Custom Events and Holidays to multiple thermostats.
- MicroSD port for adding the dealer's contact information on the screen.
- 1 assignable output on the TH8321 model to control humidification, dehumidification, ventilation or a stage of heating/cooling.
- 1 assignable input can be used with a wired outdoor, indoor or discharge sensor.
- Extend wireless range of the Equipment Interface Module by connecting a THM4000R1000 Wireless Adapter to the ABCD terminals.
- Dual powered - battery or hardwired (C wire).
- Precise temperature control (± 1°F) for reliable and consistent temperature.
- Multiple staging options to provide comfort or energy savings.

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
YTH8321R1002	3	2	H/O/C/A/EM	A/O/CIRC



YERM5220R8321

REDLINK EQUIPMENT REMOTE MODULE AND VISIONPRO THERMOSTAT

The Honeywell ERM is like a new cordless tool in your toolbox. Pull it out whenever it's too costly or time-consuming to run wires from a condensing unit or boiler to control devices. There are fewer holes to drill and wires to run. Just faster, easier installation that gives you more profit per job. Make the Honeywell ERM your go-to choice for fast, easy equipment installation.

- Wireless RedLink™ communication between condensing unit/compressor or boiler and thermostat.
- Eliminates the need to run additional wires to your equipment, for example, during a heat pump upgrade.
- Suitable for outdoor use.
- Temperature sensor terminals for outdoor temp sensors or indoor freeze protection.
- LEDs for easy installation checkout.
- May reduce damage to homes since wiring/drilling is eliminated.

Honeywell Home

	Stages	
Part No.	Heat	Cool
YERM5220R8321	2	2



F1451328

REMOTE SENSOR

- Digital output provides superior temperature control
- No temperature variance caused by wire resistance
- Operating range
  Indoor: 40 to 99°F
  Outdoor:-40 to 140°F
- Maximum wire distance: 300'
- Dimensions: 2 1/8"W x 3 1/2"L x 3/4"D

EMERSON

Part No.	Description
F1451328	Indoor sensor for series 90 W/R digital thermostats
F1451378	Outdoor sensor, 12' lead, for series 90 W/R digital thermostats



F145RF1600

WIRELESS SENSOR

- One remote sensor is configurable for indoor or outdoor use.
- Perfect for securing the interface in one area or room while sensing temperature in the conditioned space.
- Up to 3 indoor and 1 outdoor wireless remote sensors can be used on one 1F98EZ-1621 wireless thermostat system

EMERSON

Part No.	Description
F145RF1600	Wireless remote sensor for use with 1F98EZ1621

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, PROGRAMMABLE



TH2110U4004

P200 FOCUSPRO PROGRAMMABLE THERMOSTAT

The Honeywell Home FocusPRO® P200 is designed for pro ease-of-use and profitability. It reduces job complexities and time on-site while supporting recurring business thanks to its broad system compatibility, UWP® wall plate, large display and clear font, snap-on private label, and competitive price

- Supports single-stage 1H/1C for TH2110U4004/U or up to 3H/2C heat pump and 2H/2C conventional for TH2320U4006/U
- UWP® wall plate supports speedy installation and easy upgrade
- Private label with customized snap-on accent piece
- Flexible scheduling in 5-1-1 day, 5-2 day, 7 day, or 1 week increments, or turn scheduling off
- Large display with clear font
- Optional always-on backlight when hardwired
- Customizable display settings
- Intuitive interface for easy navigation
- Choose to receive filter reminders
- Heat low limit defaults to 40°F (4°C) but configurable to 32°F (0°C) for garage applications
- Fan lockout after cool call option

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH2110U4004	1	1	H/O/C/A	A/O
TH2320U4006	3 HP, 2 Conv.	2	H/O/C/A	A/O



TH2320WF4010

S200 FOCUSPRO SMART THERMOSTAT

The Honeywell Home FocusPRO® S200 is ENERGY STAR®; certified and designed for pro ease-of-use and profitability. It reduces job complexities and time on-site while supporting recurring business thanks to its broad system compatibility, UWP®; wall plate, large display and clear font, snap-on private label, and competitive price.

- Supports single-stage 1H/1C for TH2110WF4008 or up to 3H/2C heat pump and 2H/2C conventional for TH2320WF4010
- UWP® wall plate supports speedy installation and easy upgrade
- Private label with customized snap-on accent piece
- Option to configure thermostat using the Resideo Pro app without referencing an ISU table
- Flexible scheduling in 5-1-1 day, 5-2 day, 7 day, or 1 week increments, or turn scheduling off
- Geofence technology
- Demand response capable
- 2.4GHz or 5GHz WiFi connection
- Homeowners can control from anywhere using the First Alert by Resideo app
- Works with Google Assistant and Amazon Alexa
- Large, bright display with clear font
- Optional always-on backlight
- Customizable display settings
- Intuitive interface for easy navigation
- Choose to receive filter reminders
- Heat low limit defaults to 40°F (4°C) but configurable to 32°F (0°C) for garage applications
- Fan lockout after cool call option
- ENERGY STAR certified

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH2320WF4010	3 HP, 2 Conv.	2	H/O/C/A/EM.HT	A/O
TH2110WF4008	1	1	H/O/C/A	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



THX321WF3003W

T10 PRO SMART DIGITAL THERMOSTAT WITH REDLINK

The T10 Pro Smart Thermostat with included REDLINK™ indoor room sensor utilizes both RedLINK and Wi-Fi capabilities. Utilizes the Honeywell Home App. ENERGY STAR® Certified.

Kit contains 1 thermostat and 1 C7189R2002 sensor, UWP mounting system and J-box adapter

Application:

- Dual fuel and aux heat lockout
- Control a humidifier, dehumidifier, or ventilator
- Wired outdoor sensor or Internet weather
- Wireless indoor temperature, humidity, and motion sensors
- Geofence capable
- Selectable ranges stops: min and max heat and cool
- DST enabled
- 5-year warranty

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
THX321WF3003W	3 HP, 2 Conv.	2	H/O/C/A/EM	A/O
THX321WFS3001W[1]	3 HP, 2 Conv.	2	H/O/C/A/EM	A/O

1 With Remote Sensor



TH4110U2005

T SERIES

The T Series programmable thermostat streamlines everything from product selection and installation to customer service and support. With a standard footprint and simple interface, the T Series will enhance the entire thermostat experience for you and your customers alike.

- 33% thinner than FocusPro
- First Honeywell product line with a standard wall mount
- Features: back lighting, time display, auxiliary heat control, adaptive intelligent, keypad lockout, compressor protection, fan circulation, filter change reminder (TH6220 dual fuel)
- Includes: thermostat, UWP mounting system, installation (J-box) adaptor, small decorative cover plate, screws and anchors, installation guide, user guide, and 2 AA batteries
- Battery or hardwire

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Change-over
TH4110U2005	1	1	H/O/C/A	A/O	Auto/ Manual
TH6210U2001	2 HP, 1 Conv.	1	H/O/C/A/ EM	A/O/CIRC/FOLLOW SCHEDULE	Auto/ Manual
TH6220U2000	1 HP, 2 Conv.	2	H/O/C/A/ EM	A/O/CIRC/FOLLOW SCHEDULE	Auto/ Manual
TH6320U2008	3 HP, 2 Conv.	2	H/O/C/A/ EM	A/O/CIRC/FOLLOW SCHEDULE	Auto/ Manual
TH4210U2002	2 HP, 1 Conv.	1	H/O/C/A/ EM	A/O	Auto/ Manual



TH6220WF2006

LYRIC™ T6 PRO WI-FI

The new Lyric T6 Pro Wi-Fi is easy to use,and easy for techs to install and set up. Homeowners are asking for and adopting home automation technologies, and the Lyric T6 Pro Wi-Fi enables you to offer a simple solution that's integration-ready.

- Simple Installation and Easy Setup Options
- Location-Based Temperature Control
- Ecosystem Integration
- Optional Ventilation Control, Wired Indoor/Outdoor Sensors
- Compatible with most heating, cooling, and heat pump systems
- Required: 24 VAC power (C wire)
- Does not work with electric baseboard heat (120-240V)
- Does not work with millivolt systems
- Display: 6.89 Sq. In.
- Seamlessly integrates with Apple® HomeKit™ and Amazon Echo® for customers who want to control all their smart home devices from a single app.
- Includes: thermostat, UWP mounting system, installation (J-box) adaptor, small decorative cover plate, screws and anchors, installation guide, and user guide

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH6220WF2006	1 HP, 2 Conv.	2	H/O/C/A/ EM	A/O/CIRC/FOLLOW SCHEDULE
TH6320WF2003	3 HP, 2 Conv.	2	H/O/C/A/ EM	A/O/CIRC/FOLLOW SCHEDULE

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, PROGRAMMABLE



TH6100AF2004

T6 PRO HYDRONIC

T6 Pro Hydronic Programmable Thermostat can be used to control hot water heat systems by sensing the ambient air temperature, floor temperature, or both. Wired floor sensor included.

- 7-day, 5-2, 5-1-1 or non-programmable
- Hot water and steam, up to 1H only
- Can be set to operate in one of 3 different control modes, including A, F, and AF
- Floor sensor included
- Remote indoor air optional
- Battery or Hardwire
- Display: 5.44 Sq. In.
- Uses the UWP mounting system that's standard across all T Series thermostats
- Simple push-button functionality
- Adaptive Intelligent Recovery
- 5-year warranty

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Changeover
TH6100AF2004	1, Hot Water and Steam	0	H/O	-	Heat Only



TH8110R1008

VISIONPRO™ 8000 WITH REDLINK

- 7-day programmable thermostat
- Thermostat works standalone or with the THM5421R1021 Equipment Interface
- Module or with the TrueZONE Wireless Adapter.
- Smart Schedule - programs in seconds for any lifestyle.
- RedLINK™ wireless communication.
- Plain language setup, no manual needed.
- Alerts and User Interactions Log. Viewable on a computer after you download them from the thermostat to a microSD card.
- Customizable Service Reminders allow dealers to remind their customers when its time to call for service, when their warranty is expiring and to provide customized alerts.
- MicroSD port for easy setup
- Battery and hardwire
- Display: 10 sq. in.
- 1 assignable output on the TH8321 model to control humidification, dehumidification, ventilation or a stage of heating/cooling.
- 3 assignable outputs on the Equipment Interface Module to control humidification, dehumidification, ventilation or a stage of heating/cooling. The TH8110 and TH8320 models require the use of a Wireless Indoor Sensor to control humidification and dehumidification.
- 1 assignable input can be used with a wired outdoor, indoor or discharge sensor.
- 4 assignable inputs on the Equipment Interface Module can be used with wired outdoor, indoor or discharge sensors, occupancy sensor for remote setback and dry contact devices to trip pre-packaged or custom alerts such as a full drain pan or water leak.
- Extend wireless range of the Equipment Interface Module by connecting a THM4000R1000 Wireless Adapter to the ABCD terminals.

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH8110R1008	1	1	H/O/C/A	A/O/CIRC
TH8320R1003	3	2	H/O/C/A/EM	A/O/CIRC
TH8321R1001	3	2	H/O/C/A/EM	A/O/CIRC

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TH8321WF1001

WIFI VISIONPRO™ 8000

- 7-day programmable thermostat
- Equipped with a touchscreen display with a 2 line message center.
- Provides Remote Access through Smartphone, Tablet or Computer when connected to Wi-Fi and registered to mytotalconnectcomfort.com
- Provides lockout temperatures for auxiliary heat and/or compressor lockout in Heat Pump system using the wired outdoor sensor accessory or using the outdoor information from the cloud if no wired sensor is used, but the thermostat is connected to Wi-Fi and registered.
- Plain language setup, no manual needed
- Display: 10 sq3 in.
- Power: hardwire
- Relay for IAQ Control; no remote sensor required
- Equipment check/change reminders
- Programmable for annual energy savings

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH8321WF1001	3 HP, 2 Conv.	2	H/O/C/A/EM	A/O/CIRC/FOLLOW SCHEDULE



TH6110D1021

FOCUSPRO™ 6000

- Separately programmable weekday/weekend schedules.
- One-touch temp control overrides program schedule at any time.
- EnergyStar® compliant to greatly reduce your heating/cooling expenses.
- Large, clear, backlit display is easy to read-even in the dark.
- Displays both room temperature and temperature setting.
- Removable battery holder for fast, easy replacement.
- Built-in compressor protection.
- Selectable auto or manual changeover
- Battery or hardwire
- Display: 5.09 sq. in.
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH6110D1021	1	1	H/O/C/A	A/O
TH6220D1028	2	2	H/O/C/A/EM	A/O



TH6320R1004

FOCUSPRO™ WIRELESS

Easily add a zone to a TrueZONE™ system without running new wires.

- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Works with compatible RedLINK™ enabled devices
- Separately programmable weekday/weekend schedules.
- One-touch temp control overrides program schedule at any time.
- EnergyStar® compliant to greatly reduce your heating/cooling expenses.
- Large, clear, backlit display is easy to read-even in the dark.
- Displays both room temperature and temperature setting.
- Removable battery holder for fast, easy replacement.
- Built-in compressor protection.
- Selectable auto or manual changeover
- Battery operated
- Premier White® finish
- Use with: HZ432 or HZ322 and THM4000R1000, or THM5320R1000

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Changeover
TH6320R1004	3	2	H/O/C/A/EM	A/O	Auto or Manual



TH2110DV1008

PRO2000 SERIES, BUILDER

- Voltage: 20 to 30 Vac
- Battery or hardwire
- Premier White® finish
- Display: 1.32 sq.in.

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH2110DV1008	1	1	C/O/H	A/O
TH2210DV1006	2	1	C/O/H/EM.HT	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, PROGRAMMABLE



TH9320WF5003

WIFI 9000 COLOR TOUCHSCREEN THERMOSTAT

Honeywell's Wi-Fi 9000 allows remote access to the thermostat through a computer, tablet, or smart phone with Honeywell's Total Connect Comfort Service.

- Connect to home's existing Wi-Fi network
- Automatic software updates through Wi-Fi
- Selectable to 7 Day or Non-Programmable
- Customize the screen color to match any decor
- Hardwire
- Premier White® finish
- Redesigned terminal block no longer requires tools, and the plain-language on-screen setup process eliminates the need for a manual
- TH9320WFV6007 is voice-activated

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TH9320WF5003	3 HP, 2 Conv.	2	H/O/C/A/EM	A/O/C





THX9421R5021WW

PRESTIGE™ THERMOSTAT

- Patented interview based programming and installer setup.
- RedLINK™ wireless communication.
- Increase profit per job by including RedLINK™ accessories that provide comfort and convenience. RedLINK™ accessories include the RedLINK™ Internet Gateway, Portable Comfort Control (PCC), Wireless Outdoor Sensor, Wireless Indoor Sensor, TrueSTEAM™ humidifier with Wireless Adapter and TrueZONE® zoning panel with Wireless Adapter.
- Configurable for residential and light commercial applications. Meets commercial code and is title 24 compliant.

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Changeover
THX9421R5021WW	4 HP, 3 Conv.	2	H/O/C/A/EM	A/O/CIRC	Auto or Manual



YTHX9421R5085WW

PRESTIGE® IAQ 2.0 COMFORT SYSTEM KIT

The Prestige® IAQ 2.0 thermostat is a 2-wire HD color touch screen thermostat, 7 day programmable, configurable for residential and light commercial, up to 4 heat / 2 cool heat pump and up to 3 heat / 2 cool conventional, controls humidification, dehumidification and ventilation, provides Delta T Alerts and Diagnostics, works with the Equipment Interface Module and RedLINK™ accessories.

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
YTHX9421R5085WW	4 HP, 3 Conv.	2	H/C/A/O/EM	A/O/CIRC/FOLLOW SCHEDULE
YTHX9421R5101WW	4 HP, 3 Conv.	2	H/C/A/O/ EM.HT	A/O/CIRC/FOLLOW SCHEDULE
YTHX9421R5127WW	4 HP, 3 Conv.	2	H/C/A/O/ EM.HT	A/O/CIRC/FOLLOW SCHEDULE

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STATE3LTP

SMARTTHERMOSTAT PRO

- Works with gas, oil, electric, boiler (2-stage heating), dual fuel systems. Supports conventional (2H/2C) and heat pump (4H/2C) systems
- Customers control their ecobee3 lite from anywhere with an iOS or android device
- Keeps energy use low when no is home, making way for savings where it counts
- Monitors heating and cooling systems and alerts customers if it senses something is wrong
- Pairs with Room Sensors™ to help with hot or cold spots throughought the home (sold separately)
- Designed for quick and easy installation, everything you need is in the box (ecobee3 lite Thermostat, install guide, backplate, trim plate, screws, dry wall plugs, wire labels, power extender kit)
- 3.5" full color touch screen LCD
- 5 year warranty with professional installation

ecobee

	Stages		
Part No.	Heat	Cool	Program
STATE3LTP	4 HP, 2 Conv.	2	Universal



STATE6P

SMARTTHERMOSTAT PRO WITH VOICE CONTROL

- Comes with a Power Extender Kit so it doesn't rely on other equipment to charge itself
- Includes a SmartSensor to keep important rooms comfortable by adjusting your thermostat based on occupancy and temperature
- Reduces energy use and helps homeowners save up to 23% on heating and cooling costs
- Works with gas, oil, electric, and dual fuel systems. Supports conventional (2H/2C) and heat pump (4H/2C) systems; ventilator, humidifier, dehumidifier, HRV, or ERV accessories

ecobee

	Stages	
Part No.	Heat	Cool
STATE6P	4 HP, 2 Conv.	2
STATE6LP	3 HP, 2 Conv.	2


RSHM2PK

SMARTSENSOR

The fully redesigned SmartSensor unlocks and amplifies the full power of your ecobee thermostat for enhanced comfort when you're home and savings when you're away. Now with better range and accuracy, your two remote thermostat sensors will detect occupancy and set the temperature for comfort in the rooms that matter most, at the right time.

ecobee

Part No.	Description
RSHM2PK	Remote Sensor 2-pack with Detachable Stand



WI7P43

WI7 WI-FI®

Comfort control from across the room or around the world

- 7 day programmable
- Fan and humidity control
- Full-color screen, ultra-wide viewing angle
- Touch/swipe/scroll control
- 5-year limited warranty
- Tool-free wire connections
- California Title 24 Compliant
- Secure Network on the cloud
- Back plate included

Arcoaire Air Conditioning & Heating

	Stages			
Part No.	Heat	Cool	Program	Power
WI7P43	4	3	Universal	N/A



1F87U42WF

SENSI™, WIFI

Sensi App connects thermostat to home Wi-Fi router, no additional accessories/gateway required

- Programming: 7 day or non-programmable
- Works on heating and cooling systems, with or without C wire
- Servicing contractor contact information resides in the Sensi App, via contractor's phone number
- One smartphone/tablet can control multiple thermostats
- Multiple smartphones/tablets can control one thermostat

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F87U42WF	4 HP, 2 Conv.	2	Universal	A/C/EM.HT	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIGITAL, PROGRAMMABLE



1F951277

BIG BLUE™ TOUCHSCREEN, SERIES 90

Simple and logical installer menu set-up, programming and operation is enhanced by audio prompting that confirms touchscreen entries. Features like variable touchscreen security to prevent tampering, temporary and vacation overrides, and filter change reminders add convenience.

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F951277	3	2	Universal	A/C/EM.HT	A/O
1F971277	1	1	Universal	A/C/EM.HT	A/O
1F951280[1]	4	2	Universal	A/C/EM.HT	A/O
1F951291[2]	4	2	Universal	A/C/EM.HT	A/O

1 or by logic program 2 Enables remote sensor, programmable fan, enhanced dehumidification fan speed control



1F83H21PR

80 SERIES, 5" DISPLAY

- Attractive Sensi thermostat styling for non-wi-fi applications.
- Bright, high contrast backlight.
- Built-in level indicator
- Terminal block connections on subbase
- Keypad lockout and adjustable heat/cool temperature limits
- Automatic heat/cool changeover option on universal models
- Built in dual fuel logic program eliminates the need for an outdoor sensor
- Permanent program retention during power loss

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F83H21PR	2	1	5+1+1, 5+2, None	H/O/C	A/O
1F85U22PR	1 HP, 2 Conv.	2	5+1+1, 5+2, None	H/O/C	A/O
1F85U42PR	4 HP, 2 Conv.	2	5+1+1, 5+2, None	A/C/H/O	A/O



1F95EZ0671

BLUE™ 6", EASY READER

- 6-square-inch Blue™ display with easy-to-read without glasses characters
- Blue lighted display for easier low-light viewing
- Large one-button one function keys for easy operation
- 2 time and 2 temeprature settings per program (1 setback) heat and cool, or selectable 4 time and 4 temperature settings (2 setbacks)
- Energy savings up to 33%
- Meets ENERGY STAR® specifications
- Patented pre-programmed schedule simplifies time and temperature programming
- Temporary temperature override two-hour minimum or until next program period
- Selectable energy management recovery

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F95EZ0671	4	2	Non-Programmable or 5+1+1 or 7	A/C/ EM.HT	A/O



1F83C11PR

80 SERIES

- Attractive Sensi thermostat styling for non-wi-fi applications.
- Bright, high contrast backlight.
- Built-in level indicator
- Terminal block connections on subbase
- Keypad lockout and adjustable heat/cool temperature limits
- Permanent program retention during power loss
- 4.5 sq. in. display
- Battery or hardwire
- Display temperature range: 32 to 99°F
- Dimension: 3 3/4" H x 6" W x 1 1/8" D

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F83C11PR	1	1	5+1+1, 5+2, None	C/H	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



1F80361

HEAT/COOL

- Larger LCD displays setpoint temperature continuously and alternately shows actual time and temperature
- Hold temperature button allows manual program override for an indefinite period without changing programming on setback models
- For heating, cooling, electric heat, 1-stage heat pump
- Temperature range: 45 to 90°F
- System switch: H/O/C, A/O
- Voltage: millivolt to 30 Vac

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F80361	1	1	5 + 1 +1 Day	H/O/C	A/O



1E78151

HEAT/COOL

70 Series 1 Heat/1 Cool.

- Battery powered for maximum compatibility
- Fossil fuel or electric heat compatible
- Large LCD with backlight
- Selectable °C or °F temperature display
- Includes O and B terminals
- Classic White color

EMERSON

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
1E78151	1	1	C/H/O	A/O
1F78151	1	1	H/O/C	A/O



1F82261

HEAT/COOL

- Fossil fuel or electric heat compatible.
- Large LCD display with backlight.
- Permanent program retention during power loss
- Configuration menu allows keypad selection of options
- Selectable °C or °F temperature display
- Selectable energy management recovery
- Classic White color

Additional Features for 1F85RF275 Wireless Remote Model

- Wireless temperature sensing inside and outside
- Temperature averaging/weighing by program period remote and local
- Indicator icons for successful communication status
- Power: hardwire

Wireless range up to 200 ft.

EMERSON

	Stages		
Part No.	Heat	Cool	Program
1F82261	2	1	5+1+1



THM4000R1000

WIRELESS ADAPTER

- Powered by RedLINK™ reliability.
- No interference with other wireless devices in the home.

Honeywell Home

Part No.	Use with	Description
THM4000R1000[1]	Wireless Outdoor Sensor, RedLINK® enabled TrueSTEAM™ Humidification System, Dehumidification System	Wireless Adapter allows you to easily add RedLINK™ enabled thermostats to a TrueZONE™ system without running new wires.

[1] One adapter per zone control panel, HZ322 or HZ432 TrueZONE™ panel



YTH6320R1001

WIRELESS THERMOSTAT KIT

Everything you need to relocate thermostat or upgrade equipment without running new wires.

- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Choose from programmable or non-programmable kits

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Temperature (°F)
YTH6320R1001[1]	3	2	H/O/C/A/EM.HT	A/O	40-99
YTH5320R1000[2]	3	2	H/O/C/A/EM.HT	A/O	40-99

[1] Programmable [2] Non-Programmable



YTH6320R1023

WIRELESS ZONING ADAPTER KIT

Honeywell Home

	Stages		Switching		
Part No.	Heat	Cool	System	Fan	Temperature (°F)
YTH6320R1023[1]	3	2	H/O/C/A/EM.HT	A/O	40-99
YTH5320R1025[2]	3	2	H/O/C/A/EM.HT	A/O	40-99

[1] Programmable [2] Non-Programmable

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ZONE CONTROL



YTL9160AR1000

WIRELESS THERMOSTAT KIT

- Wireless FocusPRO® Thermostat: same great features of the FocusPRO® thermostat - now wireless. Can display outdoor temperature and humidity. Dual Fuel enabled -requires C7089R1013 wireless outdoor sensor (sold separately).
- Equipment Interface Module (EIM): All HVAC equipment is wired to the module. Module receives communication from the wireless devices.
- Return Air Sensor: Works with the Equipment Interface Module to maintain safe indoor temperatures if power is lost at the wireless thermostat. Maintains 62 F for heating and 82 F for cooling.
- RedLink™ wireless technology

Honeywell Home

Part No.	Description
YTL9160AR1000	Wireless EConnect 7-Day / 5-2 Programmable Thermostat and Electrical Heat Equipment Interface Module
TLM1110R1000	Electrical Heat Equipment Interface Module, Wi-Fi, Programmable Thermostat



C7835A1009

DISCHARGE SENSOR

A duct-mounted temperature probe used to provide capacity control of heating and cooling equipment.

- Used only with Honeywell networked zoning, TZ, EMM, MABS
- Mounts in the supply air duct to sense the delivered air temperature

Honeywell Home

Part No.	Includes	Description
C7835A1009	Sensor, Screw (2)	3 Wire, Indicator Lights
C7735A1000	Mounting hardware	2 Wire

DIGITAL, PROGRAMMABLE, COMMERCIAL



TB7100A1000

TB7100 MULTIPRO™

The MultiPRO™ multispeed and multipurpose thermostat is an effortless, 7-day programmable or non-programmable thermostat that provides universal system conpatibility, precise comfort and is easy to program. It provides temperature control for gas, oil, electric, heat pumps, PTACs, and fan-coil equipment for the following types of applications: 1H/1C conventional; Up to 2H/1C heat pump; 4 pipe fan coil (3 fan speeds); 2 pipe fan coil (3 fan speeds); 2 pipe fan coil w/ Auxilliary Heat (3 fan speeds); PTAC (Hi, Lo fan speeds).

- Large and clear display
- Real-time clock
- Speedy same schedule armchair programming
- Remote setback input for occupancy sensors or timeclocks
- Remote indoor air sensing option
- Battery or hardwire
- Premier White® finish

Honeywell Home

	Stages		Switching	
Part No.	Heat	Cool	System	Fan
TB7100A1000	2	1	H/O/C/A	A/O, H/M/L



T7047C2007

ELECTRONIC SENSOR, T7300 SERIES

T7047C and G sensors are used with T7300 for remote temperature sensing or averaging. Total ? at TT terminal on Q7300 should be 1420 or 75°F.

- Taupe finish

Honeywell

Part No.	Description
T7047C2007	For series 70, 1,420 W 75ϵF, taupe finish



1F950680

BLUE™

- Pre-occupancy purge and/or programmable fan
- Remote sensing indoor or outdoor and at the thermostat
- Prioritizing or averaging between indoor sensor and thermostat
- Keypad limited or total lockout
- Limited temperature range
- For 24 VAC or Millivolt Systems
- Large, 6-square-inch display with backlight

EMERSON

	Stages			Switching	
Part No.	Heat	Cool	Program	System	Fan
1F950680	4	2	7, 5+1+1, None	A/C/EM.HT	A/O

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN COIL, LINE VOLTAGE



TB6575A1000

SUITEPRO

- Digital display of ambient temperature, setpoint, mode icons when cooling or heating relays operate, when energy savings mode is active, and fan status.
- Optional freeze protection feature that turns on heat, if necessary.
- Energy savings mode -- external energy savings input from dry contact such as time switch, occupancy sensor, or hotel cardkey overrides comfort setpoint with selectable setback heating or cooling setpoints.
- Energy savings input configurable as a normally open or normally closed dry contact.
- Proportional plus integral (P+I) control algorithm for precision temperature regulation.I

Honeywell

Part No.	Voltage	System Switching	Fan Switching
TB6575A1000	120/240	O/H/C/A	H/M/L/A/O
TB8575A1000	24	O/H/C/A	H/M/L/A/O



T651A3018

ELECTROMECHANICAL, LIGHT DUTY

Controls line voltage valves, motors, contactors, electric heat elements, duct furnaces, and fan coil units in heating/cooling systems.

- Contact rating: 4 F.L. Amp 277 Vac
- Fixed differential: 2°F

Honeywell

Part No.	Switch	Temperature (°F)
T651A3018	SPDT	44-86

LINE VOLTAGE



TL7235A1003

LINEVOLTPRO 7000, NON-PROGRAMMABLE

Honeywell Home

Part No.	Contact Rating (Amps)	Switch	Temperature (°F)
TL7235A1003	15	DPST	32-122



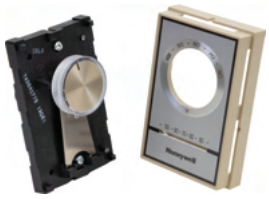
TL8230A1003

LINEVOLTPRO 8000, 7 DAY PROGRAMMABLE

Voltage: 208-240

Honeywell Home

Part No.	Contact Rating (Amps)	Switch	Temperature (°F)
TL8230A1003	15	DPST	40-86



T498B1512

ELECTROMECHANICAL

Provides line voltage control of electric heating systems.

- Long lasting Micro-Switch™ mechanism
- Thermometer included
- Contact rating: 22A resistive 240 Vac

Honeywell Home

Part No.	Contact Rating (Amps)	Switch	Tem-pera-ture (°F)	Description
T498B1512	22A resistive 240 Vac	DPST, Open Rise	40-80	Thermostat, line voltage, electric heat, electromechanical, DPST, open rise, 22 amps resistive 240 vac, positive off
T498B1553[1]	22A resistive 240 Vac	DPST, Open Rise	40-80	Thermostat, line voltage, electric heat, electromechanical, DPST, open rise, 22 amps resistive 240 vac

[1] Positive off



TL8100A1008

7 DAY PROGRAMMABLE

Can be used to control 2-way zone valves, 3-way zone valves or circulator pumps in both line volt and low volt applications. It also offers special protection modes to prevent system seizures and to reduce callbacks. Easy to install, provides cost-efficient programmable control of hydronic heating systems.

Application

- Baseboards
- Convectors
- Fan-forced heaters
- Radiant ceilings
- Central heating (Conventional)

Honeywell Home

Part No.	Contact Rating (Amps)	Description
TL8100A1008	5 (Resistive), 2 (Inductive) 240 VAC	Thermostat, line voltage (208-240 Vac), 7-day programmable, heat only, 5 (Resistive), 2 (Inductive) 240 VAC

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GENERAL PURPOSE, LINE VOLTAGE



T26S18

HEAT/COOL

For line voltage control of residential, commercial, or industrial heating or year round air conditioning. Liquid charged temperature sensing element and highly efficient diaphragm and leverage provides close temperature control. Temperature range is 40 to 90°F.

Johnson Controls

Part No.	Switch	Description
T26S18*	SPDT, Heating & Cooling	Thermostat, line voltage, general purpose, heat/cool, SPDT



1791

HEAT/COOL

For equipment requiring a closed circuit on both rise and fall of temperature.

EMERSON

Part No.	Temperature (°F)	Differential	Switch
1791	55-95	3°F, Fixed	SPDT
1529	55-85	2°F, Fixed	Open on Rise (Heating)

PROPORTIONAL



TB6980A1007

DIGITAL, TB*980 SERIES

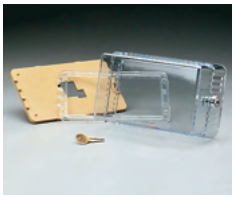
The ZonePRO thermostats are for low voltage pressure dependent VAV applications. Can also be used for hydronic perimeter heating/cooling and bypass box with or without reheat. @

- Provides min/max setpoints for heating and cooling
- Provides night setback terminal for energy savings

Honeywell

Part No.	Temperature (°F)	Description
TB6980A1007	50-95	Stages: 1 Floating
TB6980B1006	50-95	Stages: 1 Analog or Triac/ 1 Triac
TB7980A1006	50-95	Stages: 1 Analog
TB7980B1005	50-95	Stages: 1 Analog / 1 Analog or Triac / 1 Triac

GUARD



BTGUK2

U SERIES

Specifications:

Solid Base: 8 1/4"H x 5 3/8"W x 3 1/2"D

Ring Base: 8 1/8"H x 4 5/8"W x 3 5/8"D

IRP International Refrigeration Products

	Dimensions (In.)		
Part No.	W	L	Description
BTGUK2	6.70	10.60	Clear Plastic Guard with Solid and Ringed Bases
BTGUM	6.00	3.75	Metal Guard and Solid Base
BTGUWM	5.90	8.60	Metal Guard and Ring Base

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



BTGK

K SERIES

Specifications:

Solid Base: 5 1/4"H x 4 5/8"W x 3"D

Ring Base: 5 1/4"H x 4 5/8"W x 3 1/4"D

	Dimensions (In.)		
Part No.	W	L	Description
BTGK	6.20	7.20	Clear Plastic Guard with Solid & Ringed Bases



BTGRK

R SERIES

Specifications:

Applications:

Solid Base: 7 1/4"H x 5 3/8"W x 3 1/2"D

Ring Base: 6 3/4"H x 4 1/4"W x 3 9/16"D

	Dimensions (In.)		
Part No.	W	L	Description
BTGRK	5.10	8.60	Clear Plastic Guard with Solid & Ringed Bases
BTGRWM	5.20	8.50	Metal Guard with Ring Base



BTG54VL

54 VL SERIES

Specifications:

Solid Base: 6 1/4"H x 4 3/4"W x 3"D

Ring Base: 6"H x 3 3/16"W x 3 1/8"D

	Dimensions (In.)		
Part No.	W	L	Description
BTG54VL	6.80	7.60	Metal Hinged Guard with Solid Base



BTG54VLW

54 VLW SERIES

Specifications:

Solid Base: 6 1/4"H x 4 3/4"W x 3"D

Ring Base: 6"H x 3 3/16"W x 3 1/8"D

	Dimensions (In.)		
Part No.	W	L	Description
BTG54VLW	6.80	7.60	Metal Hinged Guard with Ring Base



TG511A1000

UNIVERSAL

Encloses and protects wall thermostats against tampering, damage and unauthorized adjustment of thermostat settings.

- Includes opaque polystyrene wallplate, ring base, guard cover, tumbler lock, two keys and optional Honeywell logo insert

	Dimensions (In.)				
Part No.	W	D	L	Cover Style	Use with
TG511A1000	7.00	2 15/16	7.90	Clear	TH3000 Series, TH4000 Series, TH5000 Series, TH6000 Series, TH8000 Series, Others thermostats of similar size
TG512A1009	3.40	3 3/8	7.10	Clear	TH5000 Series, TH6000 Series, TH8000 Series, Others Thermostats of Similar Size



F336

REPLACEMENT KEY

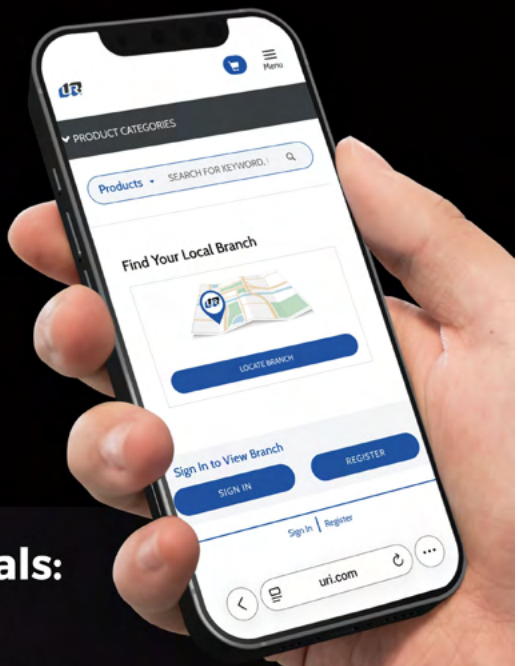
- For BTG Guards

	Dimensions (In.)		
Part No.	W	L	Description
F336	1.00	2.00	Universal Key

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

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REMOTE BULB

WIDE RANGE, ADJUSTABLE DIFFERENTIAL

The A19 Series are single stage temperature controls that incorporate liquid filled sensing elements. Suitable for temperature control in heating, ventilating, and refrigeration.



A19ABA40

WIDE RANGE, ADJUSTABLE DIFFERENTIAL

Part No.	Switch	Temperature (°F)	Differential (°F)	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	FLA (@ 240 V)
A19ABA40*	SPST, Open Low	-30 to 100	3 to 12°F	3/8 x 4	6′	140	8
A19ABC24*	SPDT	-30 to 100	3 to 12°F	3/8 x 4	8′	140	8
A19ABC36*	SPDT	-30 to 100	3 to 12°F	3/8 x 4	20′	140	8



A19AAF12

FIXED DIFFERENTIAL

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	Contact Rating (Amps)
A19AAF12*	SPDT	25 to 225	3 1/2	3/8 x 3	10′	275	3



A19AAD5

CLOSE DIFFERENTIAL

Part No.	Switch	Temperature (°F)	Differential (°F)	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	FLA (@ 240 V)
A19AAD5*[1]	SPST, Open Low	30 to 50	2 1/2	3/8 x 2 5/8	6′	190	3
A19AAF21*	SPDT	40 to 90	1 1/2	3/8 x 5 3/8	6′	140	3

[1] Bulk Milk Cooler

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REMOTE BULB


A19ACA14

MANUAL RESET

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	Contact Rating (Amps)
A19ACA14*	SPST, Open Low	-30 to 100	Manual	3/8 x 4	6′	140	8
A19ACA15*	SPST, Open Low	-30 to 100	Manual	3/8 x 4	10′	140	8
A19ADB1*	SPST, Open High	100 to 240	Manual	3/8 x 3 1/2	6′	290	6
A19ADB2*[1]	SPST, Open High	100 to 240	Manual	3/8 x 3 1/2	None	290	6

[1] Direct immersion


T4031A1073

WIDE RANGE

Provides limit or temperature control in refrigerated areas where remote mounting of sensing element is required.

- Contact rating: 5.1 F.L. Amp 240 Vac

Part No.	Switch	Temperature (°F)	Differential (°F)	Capillary Length	FLA (@ 240 V)
T4031A1073	SPST, Close Rise	-30 to 90	3.5 to 12	8′	5.1
T6031A1011	SPDT	15 to 90	3.5 to 16	5′	5.1
T6031A1029	SPDT	-30 to 90	3.5 to 16	8′	5.1
T6031A1060	SPDT	-30 to 90	3.5 to 16	20′	5.1
T6031C1009	SPDT	40 to 180	2°F, Fixed	5.5′	5.1
T6031D1049	SPDT	30 to 270	7°F, Fixed	5.5′	5.1


060100

WIDE RANGE

Wide range temperature controls.

- Contact rating: 17 F.L. Amp 240 Vac

Part No.	Switch	Temperature (°F)	Differential (°F)	Capillary Length	FLA (@ 240 V)
060100	SPDT	-35 to 95	4 to 50°F	8′, Cross Ambient	17 F.L. Amp 240 Vac
060101	SPDT	-35 to 95	4 to 50°F	Air Coil	17 F.L. Amp 240 Vac
060109	SPST, Open Low	-20 to 70	3.5 to 35°F	8′, Cross Ambient	17 F.L. Amp 240 Vac
060200	SPDT	95 to 240	6 to 50°F	8′, Cross Ambient	17 F.L. Amp 240 Vac

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


060L5201

WIDE RANGE

- Snap-action electrical contacts minimize
- Fingertip manual trip feature allows contact function testing without tools

Part No.	Switch	Temperature (°F)	Differential (°F)	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	FLA (@ 240 V)
060L5201*	SPDT	-20 to 60	2.5 to 40°F	None	80″	250	24
060L5206*	SPDT	-20 to 60	2.5 to 40°F	1 1/2 x 1 1/4	None	250	24
060L5215*	SPDT	25 to 95	3 to 45°F	1 1/2 x 1 1/4	None	250	24
060L5208*	SPDT	-15 to 60	5 to 50°F	3/8 x 3 3/8	80″	175	24
060L5218	SPDT	25 to 70	4 to 18°F	3/8 x 4 1/2	80″	175	24


A19ANC1

RAINPROOF ENCLOSURE

- Control cooling tower sump heaters
- NEMA 3R enclosure

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	Contact Rating (Amps)
A19ANC1*	SPDT	0 to 150	6, Fixed	0.290 x 2 1/2	10′	190	8


A72AE1

REMOTE BULB, HEAVY DUTY

The A72AE and A72CE are wide range temperature controls with heavy duty DPST contacts and neoprene coated sensing elements for control of cooling tower fans, motorized valves, or solenoid operated valves.

- Heavy duty construction

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	Contact Rating (Amps)
A72AE1*	DPST, Close High	24 to 90	4 to 25°F	3/8 x 6 3/4	6′	170	24


A28AA29

2 STAGE, REMOTE BULB, WIDE RANGE

Temperature sensing applications requiring two-stage control of HVAC/refrigeration equipment.

- Wide temperature ranges

Part No.	Switch	Temperature (°F)	Differential	Interstage Differential (°F)	Bulb (In.)	Max. Bulb Temperature (°F)	Capillary Length	FLA (@ 240 V)
A28AA29*	2-SPDT	-30 to 110	5, Fixed	2 to 7	3/8 x 4	140	8′	8
A28AA36C*	2-SPDT	40 to 90	3, Fixed	2 to 7	3/8 x 4	140	6′	8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REMOTE BULB



WEL11A601R

BULB WELL

- Brass and copper wells

Maximum pressure: 300 psig
Maximum temperature: 250°F

- Monel wells

Maximum pressure: 1,000 psig
Maximum temperature: 700°F

Johnson Controls

	Dimensions (In.)				Construction	
Part No.	A	B	C	Pipe Thread (In.)	Connector	Tube
WEL11A601R*	2 3/8	2 5/16	.299	1/2	Brass	Copper
WEL14A602R*	4 15/16	1 13/16	.430	1/2	Brass	Copper
WEL14A603R*	5 13/16	1 13/16	.430	1/2	Brass	Copper



121371A

BULB WELL

- Copper wells

Maximum pressure: 255 psi
Maximum temperature: 300°F

- Include mounting clamp

resideo

			Construction		
Part No.	Bulb (In.)	Pipe Thread (In.)	Connector	Tube	Insulation Depth (In.)
121371A	3/8 x 3	1/2	Copper	Copper	1 1/2
121371B	3/8 x 3	3/4	Copper	Copper	1 1/2



107408

HEAT CONDUCTIVE COMPOUND

For efficient bulb/well heat transfer
to aid accurate sensing

Honeywell

Part No.	Container Size
107408	4 Oz.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


T675A1102

SINGLE STAGE, GENERAL PURPOSE

Honeywell

Part No.	Switch	Temperature (°F)	Differential (°F)	Bulb (In.)	Capillary Length	Fast Response	FLA (@ 240 V)
T675A1102	SPDT	160 to 260	3 to 10°F	1/2 x 4 3/16	20′	No	5.1
T675A1136	SPDT	0 to 100	1°F, Fixed	1/2 x 4 3/16	20′	No	5.1
T675A1425	SPDT	55 to 175	3.6 to 12°F	1/2 x 3 9/16	20′	No	5.1
T675A1508	SPDT	0 to 100	3 to 10°F	1/2 x 4 3/16	5′	No	5.1
T675A1524	SPDT	55 to 175	1°F, Fixed	1/2 x 3 9/16	20′	No	5.1
T675A1532	SPDT	160 to 260	3 to 10°F	1/2 x 4 3/16	5′	No	5.1
T675A1540	SPDT	55 to 175	3.6 to 12°F	1/2 x 3 9/16	5′	No	5.1
T675A1565	SPDT	0 to 100	3 to 10°F	1/2 x 4 3/16	20′	No	5.1
T675B1002	SPST, Open Fall	30 to 50	Manual	1/2 x 4 3/16	10′	No	5.1


T678A1015

TWO STAGE, GENERAL PURPOSE

Honeywell

Part No.	Switch	Temperature (°F)	Differential	Interstage Differential (°F)	Bulb (In.)	Capillary Length	FLA (@ 240 V)
T678A1015	2-SPDT	0 to 100	3°F, Fixed	3 to 10	1/2 x 4 3/16	20′	5.1
T678A1361	2-SPDT	55 to 175	3.6°F, Fixed	3.6 to 12	1/2 x 3 9/16	20′	5.1
T678A1437	2-SPDT	0 to 100	3°F, Fixed	3 to 10	1/2 x 4 3/16	5′	5.1
T678A1445	2-SPDT	55 to 175	3.6°F, Fixed	3.6 to 12	1/2 x 3 9/16	5′	5.1
T678A1478	2-SPDT	0 to 100	3°F, Fixed	3 to 10		5′	5.1


T678C1005

CHANGEOVER

Senses supply water temperature in air conditioning equipment or outdoor temperature in ventilation systems.

- Bulb size: 3/8″ x 3″

Honeywell

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	FLA (@ 240 V)
T678C1005	2-SPDT	55 to 85	5°F	3/8″ x 3″	5.5′	5.1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REMOTE BULB


T678F1002

2 STAGE, SEQUENCED

Used for sequenced control of air temperature in two-stage heating or cooling systems or for single stage heating-cooling control.

- Bulb size: 5/16" x 11 11/16"

Honeywell

Part No.	Switch	Temperature (°F)	Differential	Interstage Differential (°F)	Bulb (In.)	Capillary Length	FLA (@ 240 V)
T678F1002	2-SPDT	55 to 85	2°F	2.5	5/16" x 11 11/16"	5.5'	5.1


160990

GENERAL PURPOSE WIDE RANGE

- Positive control for refrigeration applications
- Switch: SPST, close rise
- Hydraulic action element

EMERSON

Part No.	Switch	Temperature (°F)	Differential (°F)	Bulb (In.)	Capillary Length	FLA (@ 240 V)
160990	SPST, close rise	-20 to 50	3 to 25°F	3/8 x 5 1/4	8'	3.7
1609101	SPST, close rise	-30 to 90	3.5 to 40°F	3/8 x 5 1/4	5'	8
1609103	SPST, close rise	-30 to 90	3.5 to 40°F	3/8 x 5 1/4	10'	8
1609104	SPST, close rise	-30 to 90	3.5 to 40°F	3/8 x 5 1/4	20'	8
1609105	SPST, close rise	-30 to 90	3.5 to 40°F	3/8 x 5 1/4	5'	8
16879[1]	SPDT, close rise	-30 to 90	4.5 to 40°F	3/8 x 5 1/4	8'	3.7
[1] SPDT						


160994

ICE MACHINE CONTROL

- Control stops compressor when ice bank completely covers sensing element and starts compressor when ice bank begins to melt
- Switch: SPST, close rise
- Nickel plated bulb for sanitary requirements
- Use as bin level control

EMERSON

Part No.	Switch	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Contact Rating (Amps)
160994	SPST, close rise	35 to 57	3 to 20°F	3/8 x 6 3/4	6'	8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


018100

ICE BANK

Suitable for soft drink dispensers, drink vending machines, and ice builders for thermal storage. Uses a special water-filled bulb and transmission fluid to control ice thickness in applications utilizing a refrigerated water bath with ice bank reserve capacity.

RANCO

Part No.	Switch	Temperature (°F)	Differential	Capillary Length
018100	SPST, Open Low	Fixed	1/8" Ice Thickness	6', w/Bulb


0101010

GENERAL PURPOSE

These controls offer a wide selection for such products as self-contained refrigerators, freezers, coolers, walk-in units, and refrigeration display cases.

- Contact rating: 24 F.L. Amp 240 Vac
- NEMA 1 enclosure
- Universal mounting

RANCO

Part No.	Switch	Temperature (°F)	Differential (°F)	Capillary Length	FLA (@ 240 V)
0101010	SPST, Open Low	0 to 55	7 to 55°F	4'	24
0101072	SPST, Open Low	-15 to 40	3 to 20°F	Air Coil	24
0101408	SPST, Open Low	-15 to 40	3 to 20°F	6', w/Bulb	24
0101409	SPST, Open Low	0 to 55	3 to 20°F	6', w/Bulb	24
0101410	SPST, Open Low	25 to 75	3 to 20°F	6', w/Bulb	24
0101416	SPST, Open Low	0 to 55	3 to 20°F	6'	24
0101418	SPST, Open Low	0 to 55	3 to 20°F	Air Coil	24
0101419	SPST, Open Low	-35 to 15	3 to 20°F	6'	24
0101433*	SPST, Open Low	-35 to 15	3 to 20°F	6', w/Bulb	24
0101473	SPST, Open Low	0 to 55	7 to 55°F	6', w/Bulb	24
0101491	SPST, Open Low	25 to 75	2°F, Fixed	6', w/Bulb	24
0101802	SPST, Open Low	25 to 75	3 to 20°F	Air Coil	24
016104	SPDT	0 to 55	3 to 20°F	6', w/Bulb	24
016111*	SPDT	0 to 55	3 to 20°F	6'	24
016601	SPDT	22.5 to 47.5	1.5°F, Fixed	3', Cross Ambient Bulb	24
0207041	DPST, Open Low	0 to 100	6 to 20°F	8', Cross Ambient	24

SPACE


A19BAC1

UTILITY LINE VOLTAGE, HEAVY DUTY

- A19BAC for ventilating and heating applications
- A19BBC2 for cooling applications
- Return air or space temperature sensing

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential	Capillary Length	Max. Bulb Temperature (°F)	Contact Rating (Amps)
A19BAC1*	SPDT	30 to 110	3 1/2, Fixed	1 3/8 x 2 1/4 Coiled	140	8
A19BBC2*	SPDT	-30 to 100	3 to 12°F	1 3/8 x 2 1/4 Coiled	140	8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SPACE


T6054A1005

UTILITY LINE VOLTAGE

Provides SPDT heavy-duty, line-voltage temperature control in ventilation, heating or cooling.

- Contact rating: 3.7 F.L. Amp 240 Vac
- Air coil element

Honeywell

Part No.	Switch	Temperature (°F)	Differential	Contact Rating (Amps)
T6054A1005	SPDT	-30 to 100	3.5°F	3.7 F.L. Amp 240 Vac


A19BUC2

EXPLOSION PROOF

- Designed for use in grain elevators, chemical and powder plants, mines, oil refineries. For use in Class I, Group D and Class II, Group E, F, and G hazardous locations.
- Coiled bulb sensing unit

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential
A19BUC2*	SPDT	20 to 80	3 1/2


A19PRC1

NEMA 4X ENCLOSURE

The A19PRC is a single stage electromechanical thermostat designed for heating and ventilation applications. It features a raintight enclosure for use in agricultural and industrial applications that require compliance with Article 547 of the National Electric Code. The A19PRC has a rugged thermoplastic enclosure that meets NEMA 4X specifications.

- Coiled sensing bulb
- Exposed portion of the sensing element is plated and plastic coated to resist damage in corrosive atmospheres

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential
A19PRC1*	SPDT	30 to 110	3 to 12°F


T631A1006

FARM-STAT

Provides line voltage control of heating, cooling and ventilating systems in farm buildings or storage areas.

- Treated to resist corrosion
- Contact rating: 3.7 F.L. Amp 240 Vac

Honeywell

Part No.	Switch	Temperature (°F)	Differential
T631A1006	SPDT	35 to 100	2°F
T631A1022	SPDT	70 to 140	2°F
T631A1030	SPDT	0 to 70	3°F
T631B1005	2-SPDT	35 to 100	2°F
T631C1012	SPDT, 5.1A	20 to 90	3°F
T631C1103	SPDT, 5.1A	-30 to 100	5°F

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



T631F1068

FARM-STAT, NEMA 4X

Provides line voltage control of heating, cooling and ventilating systems in farm buildings, storage areas and industrial environments; watertight, dust-proof enclosure.

- Contact rating: 3.7 F.L. Amp 240 Vac

Honeywell

Part No.	Switch	Temperature (°F)	Differential
T631F1068	SPDT	35 to 100	2°F


A28AA4

2 STAGE, COILED BULB

Temperature sensing applications requiring two-stage space control of HVAC/refrigeration equipment.

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential	Interstage Differential (°F)	Sensor Length	Max. Bulb Temperature (°F)	FLA (@ 240 V)
A28AA4*	2-SPDT	30 to 110	3 1/2, Fixed	3, Fixed	1 3/8" x 2 1/4"	140	8

DEFROST TERMINATION, FAN DELAY


F25107

F25 SERIES

The F25 control terminates defrost and delays the evaporator fan operation on electric heat, hot gas and reverse cycle commercial refrigeration systems.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length	FLA (@ 240 V)
F25107	40 to 75	20°F, Fixed	SPDT	60", Cross Ambient Bulb	20
F25114	44 to 79	24°F, Fixed	SPDT	60", Cross Ambient Bulb	20

FREEZESTAT


A11A1

A11 SERIES

The A11 Series low temperature cutout controls incorporate a 20 foot long, vapor charged, sensing element. These controls react to the coldest 18 inch section of the control sensing element. These controls are suitable for monitoring the face temperature of hot water coils for freeze protection. The most common application for these controls is as a low temperature cutout for coils and/or pipe liquid sensing

- Element: 20' of 1/8 O.D. tubing, 4' capillary
- Switch: SPST—open low

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential	Ambient Temperature	Max. Element (°F)	Contact Rating (Amps)
A11A1*	SPST—open low	35 to 45	Manual Reset	0 to 140°F	250	8
A11B1*	SPST—open low	35 to 45	8°F, Fixed	0 to 140°F	250	8

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FREEZESTAT


A70GA1

A70 SERIES, ALARM

- The A70G, A70H, and A70K have a four-wire, two circuit contact block that contains two isolated sets of contacts.
- The contacts are designed so that when the main contact opens, the auxiliary contact closes.
- Typical applications would include energizing an indicator light upon low temperature cutout on a ventilating system.
- Low cutout stop is set and sealed at 35°F (1.6°C). Control responds only to the lowest temperature along any 1′ of entire 20′ element or bellows cup

Johnson Controls

	Switch							FLA (@ 240 V)	
Part No.	Main	Auxiliary	Temperature (°F)	Differential	Bulb (In.)	Capillary Length	Max. Bulb Temperature (°F)	Main	Auxiliary
A70GA1*[1]	Open Low	Close Low	15 to 55	5, Fixed	1/8 O.D. Tubing	20′	400	8	3
A70GA2C*	Open Low	Close Low	35 to 80	3 to 30°F	3/8 x 3	6′	250	8	3
A70HA1*[1]	Open Low	Close Low	15 to 55	Manual Reset	1/8 O.D. Tubing	20′	400	8	3
A70HA2*	Open Low	Close Low	35 to 80	Manual Reset	3/8 x 3	6′	250	8	3
A70KA1*	Open High	Close High	100 to 170	Manual Reset	3/8 x 10	6′	240	8	3

[1] Low cutout stop is set and sealed at 35°F (1.6°C). Control responds only to the lowest temperature along any 1′ of entire 20′ element or bellows cup.


16A609

16A SERIES

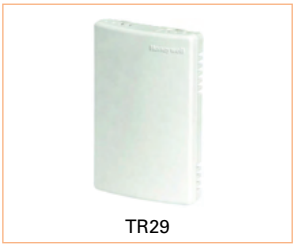
Designed to shut down cooling equipment before undesirably low temperatures are reached.

- Manual reset freeze protection control
- Switch: SPST, open fall
- Contact rating: 7.0 F.L. Amp 240Vac

EMERSON

Part No.	Switch	Bulb (In.)	Capillary Length	Temperature (°F)	Differential	Contact Rating (Amps)
16A609	SPST, open fall	3/8 x 5 1/2	10′	-20 to 50	Manual Reset	7.0 F.L. Amp 240 Vac

ELECTRONIC


TR29

WALL MOUNTED REMOTE BULB ENCLOSURE

The TR29 is a wall mount enclosure only and can be used to wall-mount any 1/4″ or 3/8″ diameter probe sensor.

- Enclosure has the same look and feel of our TR21 wall module.
- Sensor can be mounted inside of the enclosure or directly to the wall or duct using the mounting clips supplied with the unit.

Honeywell

Part No.	Description
TR29	Wall mounted remote bulb enclosure

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NOVAR



XIOCIMS

Honeywell Home

Part No.	Description
RCCST2K8TJ	Novar Sensor/Cable Assembly
XIO8DOBH	Novar 8 Relay Output with HOA
XIO8UB	Novar BACnet 8 Universal Inputs/Analog Output
XIORIMS	Novar Spectrum XIO Enhanced with Rack Input
XCMLCDC	Novar XCM Overide Pannel, LCD Screen
732203000	Novar FTS-1 Zone Temperature Sensor 20'-120'
733093500	Novar Transducer and Cable Kit, 0-400 PSI
UCMB3336	Novar UCM-BACnet RTU Controller
RCC1081	Novar BACnet Refrigeration Case/Superheat Controller
XIO8DOB	Novar 8 Relay Output, BACnet
XIO8IMS	Novar Spectrum XIO Enhanced with 8 Input
XIOCCMSH	Novar Spectrum XIO Enchanced with CCM
XIOROMS	Novar Spectrum XIO Enchanced with ROM
XIO4U4DOB	Novar 4 Input/Output Combination Module
XIOCIMS	Spectrum XIO Enchanced with Case, Input Module CIM
712006000	Novar Remote Sensor

REMOTE SENSOR, A421 SERIES



A421ABC02C

The A421 Series Electronic Temperature Controls are single-stage controls with a SPDT output relay. A421 Controls feature a bright backlit LCD with adjustable brightness and a 3-button touchpad interface that can be set up to restrict user adjustments. An LED indicates the output relay's On/Off status. Standard A421 Series control modules have simple On and Off temperature settings for heating or cooling, an adjustable anti-short cycle delay, temperature setback, and sensor offset capability.

- Current draw: 1.8 VA maximum
- Temperature control range: -40 to 212°F
- Differential: 1 to 30°F
- Switch: SPDT
- NEMA 1, IP20, high-impact plastic enclosures suitable for surface or DIN rail mounting
- NEMA 4X, IP67, weathertight, corrosion resistant surface mount enclosures

Johnson Controls

Part No.	Description	Temperature (°F)	Length (In.)	Enclosure	Voltage	Operating Ambient (°F)	Lead Length	FLA (@ 240 V)
A421ABC02C	Line Voltage	-40 to 212	2.38	NEMA 1	120, 208/240	-40 to 150	79 1/5"	8 F.L. Amp 240V
A421ABC03C*	Line Voltage	-40 to 212	1.00	NEMA 1	120, 208/240	-40 to 150	118 4/5"	8 F.L. Amp 240V
A421AEC01C	Line Voltage	-40 to 212	1.00	NEMA 4X	120, 208/240	-40 to 140	9 7/8"	8 F.L. Amp 240V
A421AEC02C*	Line Voltage	-40 to 212	1.00	NEMA 4X	120, 208/240	-40 to 140	79 1/5"	8 F.L. Amp 240V
A421AED02C*	Line Voltage with Off-Cycle Defrost Timer	-40 to 212	1.00	NEMA 4X	120, 208/240	-40 to 140	78"	8 F.L. Amp 240V
A421GBF02C	Low Voltage	-40 to 212	1.00	NEMA 1	24	-40 to 150	79 1/5"	-
A421GEF01C*	Low Voltage	-40 to 212	1.00	NEMA 4X	24	-40 to 140	9 7/8"	-
A421ABJ02C*	Line Voltage, with Single Power Cord and Piggyback Plug	-40 to 212	1.00	NEMA 1	120	-40 to 150	79 1/5"	12 120
A421ABD02C	Line Voltage with Off-Cycle Defrost Timer	-40 to 212	2.38	NEMA 1	120, 208/240	-40 to 150	79 1/5"	8 F.L. Amp 240V

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ELECTRONIC

PTC SENSOR, A99B SERIES



A99BB25C

- Passive PTC silicon sensor (1035? at 77°F)
- Exceptional accuracy of the sensing element provides excellent performance in a wide variety of applications
- Stainless steel sensing bulb allows use in applications that require more corrosion protection
- Lead length may be extended up to 800'
- Use with A419

Johnson Controls

Part No.	Description	Temperature (°F)	Length (In.)
A99BB25C*	PVC Cable	-40 to 212	9.75
A99BB200C*	PVC Cable	-40 to 212	6.00
A99BB300C*	PVC Cable	-40 to 212	4.50
A99BC25C*	HiTemp Silicon Cable	-40 to 248	4.50
A99BC100C*	HiTemp Silicon Cable	-40 to 248	18.75
A99BC300*	HiTemp Silicon Cable	-40 to 248	1.00

REMOTE SENSOR, ETC SERIES



ETC111000

The Ranco® ETC Series Electronic Temperature Control offers a full-featured electronic replacement for electrical-mechanical temperature controls used in many commercial refrigeration applications. With its wide temperature range, one and two stage capability, selectable heating/cooling modes and multi-voltage input, the ETC is designed to provide application flexibility. Models available include 120/208/240V AC and 24V AC.

- Anti-short cycle compressor delay for cooling applications
- Wide temperature range (-30°F to 220°F) (-34.4°C to 104.4°C)
- Wide differential adjustment (1°F to 30°F) (-17°C to -1°C)
- LCD read-out for sensor temperature, control settings, and relay status
- High Amp output relay (FLA 16 Amps @ 120V AC and 8 Amps @ 208/240V AC) single stage
- EEPROM memory retains control settings during power outages
- Keypad lockout to prevent end-user alteration of settings
- 8 foot lead with sensor is extendable up to 400 feet using 18 or 22-gauge thermostat wire
- Easy 4-step set-up
- Heavy-duty relay is 1 HP rated
- Selectable °F or °C heating/cooling modes
- Single and two stage models
- NEMA 1 case and cover
- NEMA 4X models available
- White backlight on display
- Sensor rated IP67 for dust and water (<1m) resistance

RANCO

Part No.	Input Voltage	Stages	Enclosure	Length (In.)
ETC111000	120/240	1	NEMA1	9.00
ETC112000	24	1	NEMA 1	8.90
ETC141000	120/240	1	Watertight, NEMA4	5.90
ETC211000	120/240	2	NEMA1	9.00
ETC212000	24	2	NEMA1	9.00
ETC241000	120/240	2	Watertight, NEMA4	0.00

REMOTE SENSOR



16E09101

Replaces most mechanical and electronic single stage controls using an SPDT output relay. Offers the widest multiple voltage operating range: 24/120/208/240 VAC. Does not require a common wire when electrical load is greater than 2.5 amps

- Wide temperature range: -40 to 220°F
- Adjustable differential range: 1° to 30°F
- Remote temperature sensing: up to 400'; sensor included
- 8 FLA 240 Vac
- Alarm relay NO contact: 1 amp

EMERSON

Part No.	Stages	Enclosure
16E09101	1	NEMA 1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


T775SENSOAT

ENCAPSULATED TEMPERATURE SENSOR

Use with T775 series.

- Sensors are 1097? at 77°F PTC

Honeywell

Part No.	Description	Temperature (°F)
T775SENSOAT	Outside Air Sensor, 8 5/16"L	-40 to 158
T775SENSSTRAP	Strap On, Hot/Chilled Water	-40 to 250
T775SENSWR	Water resistant, 3 1/2" L, 1/4" diameter, 5' leads	-40 to 270
T775SENSWT	Water tight, 2" L, 1/4" diameter, 6' leads	-40 to 270
50021579001	Water resistant, 2" L, 1/4" diameter, 9' leads	-40 to 270


T775S2008

REMOTE SENSOR, T775-2000 SERIES

Provide on/off (T775A-B2***) , modulating (T775M2***), or reset (T775R2***) control in applications where electronic accuracy in addition to remote sensing is desired

- T775L,P,U have reset options, T775L,P,S are on/off, T775U have both modulating and on/off functions
- Available with one or two temperature inputs and up to four SPDT relay output stages or modulating outputs
- Calibrate input sensors up to ±10°F for temperature and up to ±10% of range for other sensors (e.g pressure, humidity) to compensate for resistance drops in longer sensor wire runs.
- 1 sensor included unless noted (except T775U, T775S)
- Two settable time periods per day are standard on all models
- Power: 24, 120, or 240 Vac; 50/60 Hz;
- Remote sensing from up to 1,000'
- Operating range: -40 to 140°F
- Setting range: -40 to 248°F
- Differential: 1 to 150°F
- Contact rating: 4.9 FLA at 230V
- Analog modulating outputs can be individually configured for 0-10 Vdc, 2-10 Vdc, 4-20 mA or Series 90.
- The date and time settings are retained for 24 hours after a power outage. All other settings are stored permanently

Honeywell

		Outputs					
Part No.	Input	Relay	Analog	Floating	Temperature (°F)	Enclosure	Comments
T775S2008	-	4	-	-		NEMA 1	Relay Expansion Module only, use with T775L, T775P
T775A2009	1	1	-	-	-60 to 270	NEMA 1	Standard
T775B2016	2	2	-	1	-60 to 270	NEMA 4X	Standard, Floating
T775B2024	2	4	-	2	-60 to 270	NEMA 4X	Standard, Floating
T775B2032	2	2	-	1	-60 to 270	NEMA 1	Standard, Floating
T775B2040	2	4	-	2	-60 to 270	NEMA 1	Standard, Floating
T775M2006	2	-	2	-	-60 to 270	NEMA 1	Modulating
T775M2014	2	4	2	-	-60 to 270	NEMA 4X	Modulating
T775M2022	2	2	2	-	-60 to 270	NEMA 4X	Modulating
T775M2030	2	4	2	-	-60 to 270	NEMA 1	Modulating
T775M2048	2	2	2	-	-60 to 270	NEMA 1	Modulating
T775R2001	2	4	-	2	-60 to 270	NEMA 1	Outdoor reset, 2 sensors included
T775R2019	2	4	2	-	-60 to 270	NEMA 1	Outdoor reset, 2 sensors included
T775R2027	2	2	2	-	-60 to 270	NEMA 1	Outdoor reset, 2 sensors included
T775R2035	2	2	-	1	-60 to 270	NEMA 1	Outdoor reset, 2 sensors included
T775R2043	2	-	2	-	-60 to 270	NEMA 1	Outdoor reset, 2 sensors included
T775U2006	2	2	2	-	-60 to 270	NEMA 1	Universal; Humidity, Pressure, Temperature (less sensor)
T775U2016	2	2	2	-	-60 to 270	NEMA 1	Universal; Humidity, Pressure, Temperature. Control to Sensor A (Universal Input) or Sensor B (temp) Independently.
T775L2007	2	4(2)	-	-	-60 to 270	NEMA 1	Stage Sequencer with Reset
T775P2003	3	4	-	-	-60 to 270	NEMA 1	Boiler Reset, 3 input sensors, digital alarm

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PROPORTIONAL, REMOTE BULB


T991A1012

MODULATING

For modulating control of water or air temperature in ducts, tanks and similar applications.

- Supply voltage: 24-30 Vac
- Potentiometer resistance: 135? (T991A1269 - 280?)

Honeywell

Part No.	Temperature (°F)	Throttling Range	Capillary Length	Bulb (In.)
T991A1012	0 to 100	3 to 30	20′	1/2 x 4 3/16
T991A1079	160 to 260	3 to 30	20′	1/2 x 4 3/16
T991A1244	55 to 175	3.5 to 36	5′	1/2 x 3 9/16
T991A1426	0 to 100	3 to 30	5′	1/2 x 4 3/16
T991A1764	0 to 100	3 to 30	24′	Averaging

APPLIANCE


A121506

CONSTANT CUT-IN

The Ranco A12 controls provide a constant cut-in feature. The constant cut-in design is generally used to provide an off cycle defrost function. Each time the control cycles off, the control contacts will remain open until the evaporator is cleared of any frost that may have accumulated from the previous on cycle.

- Contact rating: 16 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Cut-In (°F)	Capillary Length
A121506	9 to 22	38	39″
A121560	19 to 29	38	72″
A12700	11.5 to 26	37	84″
A12701	15 to 31	41	84″


A22391

CONSTANT DIFFERENTIAL

Controls for commercial refrigerators, freezers, ice machines, vending machines and beverage coolers.
These compact controls are readily adaptable to nearly all commercial refrigerators and freezers. A wide selection of temperature ranges, differentials and capillary lengths are available. Break-off shafts are included with installation instructions for easy, fast installation. Controls have off position except as noted.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
A22391	11 to 51	8°F	SPDT, No Off	66″
A22392	14 to 61.5	23.5°F	SPDT, No Off	48″
A221112	25 to 44	5°F	SPST, Open Low, No Off	72″
A30180	-4 to 41	12°F	SPST, Open Low	42″
A30181	-4 to 41	12°F	SPST, Open Low	84″
A30182	-6 to 44	17°F	SPST, Open Low	42″
A30184	-7 to 40	19°F	SPST, Open Low	42″
A30185	-15 to 36	15.5°F	SPST, Open Low	42″
A30260*	-0.5 to 32	6°F	SPST, Open Low	72″
A30261	32 to 61	6°F	SPST, Open Low	84″

Continued on next page

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Part No.	Temperature (°F)	Differential	Switch	Capillary Length
A30262	3 to 43	12°F	SPST, Open Low	84″
A30263	0.5 to 47	22.5°F	SPST, Open Low	84″
A30301*	-24 to 20.5	8.5°F	SPST, Open Low, No Off	84″
A30304*	-21.5 to 19.5	15.5°F	SPST, Open Low, No Off	84″
A30308*	-30.5 to 12.5	11°F	SPST, Open Low, No Off	84″
A30310*	-24 to 23	20°F	SPST, Open Low	36″
A30311*	-22 to 24	14°F	SPST, Open Low	42″
A30313*	-20 to 21	8°F	SPST, Open Low	42″
A30314*	-21.5 to 23	8°F	SPST, Open Low	54″
A30323*	-11 to 10.5	10°F	SPST, Open Low	48″
A30543	7 to 45	12°F	SPST, Open Low	27′
A302209	35 to 48	8°F	SPST, Open Low	48″
A302210	30 to 42	8°F	SPST, Open Low	48″
A302211	-10.5 to 17.5	10°F	SPST, Open Low	48″
A303618*	17 to 45	17°F	SPST, Open Low	30″
A303725	16 to 50	19°F	SPST, Open Low	60″, w/Bulb



A302311

EVAPORATOR DE-ICE

Control is generally wired in series with cycling control and capillary senses evaporator temperature. When ice starts to accumulate on evaporator, control will shut off compressor.

- 30°F open, 60°F close

RANCO

Part No.	Switch	Capillary Length
A302311*	SPST	30



A221129

ICE BIN LEVEL

Direct replacement control for ice machine applications. Provides narrow differential for accurate control of bin level.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
A221129	35 to 51	6°F	SPDT	48″



A224506

ICE HARVEST

Adaptable replacement for ice machine applications.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
A224506	-19 to 22	8°F	SPDT	72″

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

APPLIANCE


K3001

WATER COOLER

Ranco's water cooler controls will replace about 80% of your control needs for equipment from such manufacturers as Ebco, Elkay, Sunroc, Halsey-Taylor, Kelvinator and General Electric.

- Contact rating: 6 F.L. Amp 250 Vac

RANCO

Part No.	Temperature (°F)	Differential	Capillary Length
K3001*	37 to 61	7°F	48″
K3002*	7 to 66	27°F	36″


C122001

OUTDOOR THERMOSTAT

Ranco's C12-2001 control is an adjustable thermostat which holds back additional stages of supplemental heat until the outdoor temperature falls below the control's set point. The C12-2001 is typically wired through the relay circuit in conjunction with the indoor thermostat.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
C122001	-1 to 63	5°F	SPDT	30″, w/Bulb


C125010

PTAC

This control replaces many OEM controls on heat/cool units.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
C125010	60 to 98	3°F	SPDT	36″, w/Bulb
C17100	64 to 101	3.5°F	2 SPDT	26″, w/Bulb


C129024

DISCHARGE FEEDBACK

Discharge feedback thermostats types C17 and C22 are replacements for room, packaged terminal and through-the- wall air conditioning units equipped for either manual or automatic heat/cool changeover. The C17 and C22 have separate switches for heating and cooling. A wide energy saving comfort zone (dead band) is provided between heating and cooling cycles.

RANCO

Part No.	Differential	Capillary Length	Cool Range (°F)
C129024	4°F	36″, w/Bulb	67 to 83
C179043	4°F	36″, w/Bulb	68 to 86

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



A221114

ROOM AIR CONDITIONER

Adaptable control to replace OEM controls which govern the on/off compressor function.

- Contact rating: 20 F.L. Amp 240 Vac

RANCO

Part No.	Temperature (°F)	Differential	Switch	Capillary Length
A221114	60 to 91	5°F	SPST, Open Low	54", Cross Ambient
A222451	45 to 81	5°F	SPDT	27"
A222453	59 to 90	6°F	SPDT	39", Cross Ambient
A30X450	58 to 89	5°F	SPST, Open Low	18, Air Coil
A30X451	58 to 91	5°F	SPST, Open Low	48"



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ENCAPSULATED

AUTO RESET, OPEN HIGH

- 1/4" female flare connection
- 18" leads



SHP200150

	Pressure (psi)	
Part No.	Open	Close
SHP200150*	200	150
SHP250150*	250	150
SHP275195*	275	195
SHP300200*	300	200
SHP350250*	350	250
SHP375265*	375	265
SHP400200*	400	200
SHP400280*	400	280
SHP400300*	400	300
SHP425300*	425	300
SHP425325*	425	325
SHP450250*	450	250
SHP610420*	610	420

AUTO RESET, OPEN HIGH



P100CP140C

	Pressure (psi)	
Part No.	Open	Close
P100CP140C*	350	245
P100CP38C*	500	325
P100CP1C*	400	300
P100CP85C*	665	565
P100CP2C*	425	325

AUTO RESET, OPEN LOW, FAN CYCLING



SFC150225

	Pressure (psi)	
Part No.	Open	Close
SFC150225*	150	225
SFC170250*	170	250
SFC210275*	210	275
SFC300400*	300	400

AUTO RESET, OPEN LOW, FAN CYCLING



P100AP3C

	Pressure (psi)	
Part No.	Open	Close
P100AP3C*	150	225
P100AP4C*	170	250
P100AP332C*	300	400

AUTO RESET, OPEN LOW



SLP0520

	Pressure (psi)	
Part No.	Open	Close
SLP0520*	5	20
SLP1032*	10	32
SLP1535*	15	35
SLP2550*	25	50
SLP2565*	25	65
SLP2580*	25	80
SLP3560*	35	60
SLP4080*	40	80
SLP5090*	50	90
SLP75100*	75	100
SLP90120*	90	120

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


SMR375

MANUAL RESET, OPEN HIGH

	Pressure (psi)	
Part No.	Open	Connection Size (In.)
SMR375*	375	1/4
SMR410*	410	1/4
SMR440	440	1/4
SMR610*	610	1/4


P100DA1

MANUAL RESET, OPEN HIGH

	Pressure (psi)	
Part No.	Open	Connection Size (In.)
P100DA1*	410	1/4
P100DA2*	475	1/4
P100DA81C*[1]	630	1/4

[1] Compatible with R410A


061F7523

AUTO RESET

- 1/4" FFL with depressor pin

		Pressure (psi)		
Part No.	Description	Open	Close	Connection Size (In.)
061F7523	Open Low	10	25	1/4 FFL with Depressor Pin
061F8333	Fan Cycling	188	232	1/4 FFL with Depressor Pin
061F8492	Open High	450	348	1/4 FFL with Depressor Pin

SYSTEM 450B„B

CONTROL MODULE

All System 450 modules are multipurpose and field configurable out-of-the-box; each module is designed for use in temperature, pressure, and humidity systems. A System 450 control system can be easily assembled and configured to monitor and control temperature, pressure, and humidity simultaneously.
Each control module can be set up as a stand-alone control or connected to expansion modules to control up to 10 outputs based on the input from up to 3 control sensors. A control system's outputs can be relay outputs (On/Off), analog outputs (0-10 VDC or 4-20 mA), or any combination of relay and analog outputs.

- Backlit Liquid Crystal Display (LCD) and 4-button touch pad User Interface (UI), provides quick, clear, visual status of the control system's input sensors and outputs with the touch of a button
- Up to 3 input sensors and up to 10 outputs allow you to build both simple and complex application specific control systems
- 4.9 F.L. Amps 240Vac


C450CBN4C

CONTROL MODULE

Part No.	Description	Length (In.)
C450CBN4C	Control Module with 1 SPDT Output Relay	2.40
C450CCN4C	Control Module with 2 SPDT Output Relays	2.40
C450CPN4C	Control Module with 1 Analog Output (4-20 mA / 0-10 VDC)	2.40
C450CQN4C*	Control Module with 2 Analog Outputs (4-20 mA / 0-10 VDC)	2.40
C450SCN4C*	System 450 Expansion Module with 2 SPDT Output Relay	2.40


C450YNN1C

POWER MODULE

Part No.	Description	Length (In.)
C450YNN1C	Provides 24 V to System 450™ Module Assembly; 120 or 240 VAC Supply Power Input Terminals	10.50

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SINGLE FUNCTION

ELECTRONIC



P470EB1

The P470 Electronic Pressure Control with Display is a single-stage, On/Off, electronic pressure control with an SPDT output relay (open high or low). The P470 control uses a P399 Electronic Pressure Transducer to generate a pressure signal and WHA-P399 Wiring Harness, which eliminates many of the constraints of capillary-tube control applications. (MUST BE ORDERED SEPARATELY)

- Easy-to-read liquid crystal display (LCD) clearly displays the sensed pressure (and other control information), and in many situations pressure may be monitored without applying gauges to the controlled equipment. LED indicates relay status
- Three field-selectable pressure ranges between 0-750 psi (transducer dependent) provide the flexibility to cover most HVAC/R pressure applications
- Lockable, 3-button, front-panel touchpad deters tampering and over adjustment of control settings by unauthorized personnel.
- Built-in, adjustable, anti-short cycle time-delay reduces compressor short cycling and nuisance lockouts, which can extend compressor life
- Economical, versatile transducer and wiring harness eliminate many of the constraints of capillary control applications and allow up to a 100 ft (30.5m) cable between control and transducer

Part No.	Voltage	Switch
P470EB1*	120/208-230	SPDT
P470FB1*	24	SPDT

LOW PRESSURE TIME DELAY


P29NC2

P29NC provides a low pressure cutout control with time delay and lockout, which requires manual reset. Standard time delay is 60 seconds. The control provides equipment shutdown on extended low pressure conditions. The time delay prevents nuisance shutdowns due to momentary fluctuations in system pressures.

- Applications: chiller low temperature cutout; industrial equipment, oil pressure lubrication cutout; low suction pressure cutout
- Maximum bellows pressure: 325 psig
- Pressure drop to close contacts: 1-3 psi

Part No.	Switch	Pressure Range (psi)	Pressure Connection (In.)
P29NC2*	SPST	20 to 100	1/4 M Flare
P29NC3*	SPST	20 to 100	1/4 F Flare; 36" Capillary

FAN CYCLING


P70AA118

- Includes universal mounting bracket
- Maximum over pressure: 475 psig

Part No.	Switch	Pressure Range (psig)	Differential	Connection Size (In.)	Capillary Length	Contact Rating (at 240 V) 1 Phase
P70AA118*	SPST, Open Low	100 to 400	35 to 200	1/4 FFL	3'	17.0
P170AA118*	SPST, Open Low	100 to 400	35 to 200	1/4 MFL	None	17.0
P70AA2*	SPST, Open Low	0 to 150	10 to 70	1/4 FFL	3'	17.0
P70AA400C*	SPST, Open Low	100 to 470	35 to 200	1/4 FFL	3'	17.0
P70AA119*[1]	SPST, Open Low	50 to 300	20 to 100	1/4 FPT	None	17.0
P72AA27*	DPST, Open Low	100 to 400	35 to 200	1/4 FFL	3'	24.0

[1] For ammonia service. Maximum over pressure: 400 psig

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



P170AA2C

HIGH PRESSURE

Part No.	Switch	Pressure Range (psig)	Differential	Connection Size (In.)	Capillary Length	Contact Rating (at 240 V) 1 Phase
P170AA2C*	SPST, Open Low	0 to 150	10 to 70	1/4 MFL	None	17.0
P170AA400C*	SPST, Open Low	100 to 470	35 to 200	1/4 MFL	None	17.0
P70CA2*	SPST, Open High	50 to 500	60 to 150	1/4 MFL	None	17.0
P70CA3*	SPST, Open High	50 to 500	60 to 150	1/4 FFL	3′	17.0
P170CA3*	SPST, Open High	50 to 500	60 to 150	1/4 MFL	None	17.0
P70DA1*	SPST, Open High	50 to 500	Manual Reset	1/4 FFL	3′	17.0
P170DA1*	SPST, Open High	50 to 500	Manual Reset	1/4 MFL	None	17.0
P70DA2*[1]	SPST, Open High	50 to 500	Manual Reset	1/4 FPT	None	17.0
P170CA400C*	SPST, Open High	200 to 610	60 to 150	1/4 MFL	None	17.0
P170DA400C*	SPST, Open High	200 to 610	Manual Reset	1/4 MFL	None	17.0
P70CA400C*	SPST, Open High	200 to 610	60 to 150	1/4 MFL	3′	17.0
P70DA400C*	SPST, Open High	200 to 610	Manual Reset	1/4 MFL	3′	17.0

[1] For ammonia service



P70KA1

HIGH PRESSURE/ALARM CIRCUIT

Maximum over pressure: 525 psig

Part No.	Switch	Pressure Range (psig)	Differential	Connection Size (In.)	Capillary Length	Contact Rating (at 240 V) 1 Phase
P70KA1*[1]	4-Wire, 2-Circuit	50 to 450	Manual Reset	1/4 FFL	3′	8.0
P170KA1*[1]	4-Wire, 2-Circuit	50 to 450	Manual Reset	1/4 MFL	None	8.0

[1] L-M1 close high; L-M2 open high



P70AB12

LOW PRESSURE

Maximum over pressure: 325 psig

Part No.	Switch	Pressure Range (psig)	Differential	Connection Size (In.)	Capillary Length	Contact Rating (at 240 V) 1 Phase
P70AB12*[1]	SPST, Open Low	12″ to 80	5 to 35	1/4 FFL	3′	17.0
P170AB12*[1]	SPST, Open Low	12″ to 80	5 to 35	1/4 MFL	None	17.0
P70AB2*	SPST, Open Low	20″ to 100	6 to 50	1/4 FFL	3′	17.0
P170AB2*	SPST, Open Low	20″ to 100	7 to 50	1/4 MFL	None	17.0
P70CA1*	SPST, Open High	20″ to 100	6 to 50	1/4 FFL	3′	17.0
P170CA1*	SPST, Open High	20″ to 100	7 to 50	1/4 MFL	None	17.0
P70AA5*[2]	SPST, Open Low	20″ to 100	6 to 50	1/4 FPT	None	17.0
P70CA4*[2]	SPST, Open High	20″ to 100	6 to 50	1/4 FPT	None	17.0

[1] Micro set control [2] For ammonia service

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SINGLE FUNCTION



P20BB1

The P20 Series are slim profile, field replacement high and low pressure controls for non-corrosive refrigerants.

- Maximum temperature: 140°F
- Contact rating: 8 F.L. Amp 240V

Johnson Controls

Part No.	Switch	Pressure Range (psi)	Differential	Max. Bellows (psig)
P20BB1*	SPST, Open Fall	7 to 150	Manual Reset	250
P20DB1*	SPST, Open Rise	100 to 425	Manual Reset	450
P20EB1*	SPDT	7 to 150	30, Fixed	250
P20EB2*	SPDT	100 to 425	75, Fixed	450



016107

PRESSURE CONTROL, SPDT SWITCH

These controls offer a variety of pressure ranges and switch action to provide maximum application flexibility.
Type 016 SPDT switch action can be used for all categories of applications. If desired, the unused terminal may be wired to an alarm.
Note: Since an alarm circuit is frequently desired on manual reset controls, all manual reset controls are provided in the Type 016 SPDT configurations.

- Contact rating: 24 F.L. Amp 240 Vac

RANCO

Part No.	Pressure Range (psi)	Differential	Switch	Capillary Length	Connection Size (In.)	Gender
016107	10″ to 100	10 to 40	SPDT	None	1/4 Flare	M
016527	10″ to 100	10 to 40	SPDT	3′	1/4 Flare	F
016120	12″ to 50	5 to 35	SPDT	None	1/4 Flare	M
016557	12″ to 50	5 to 35	SPDT	3′	1/4 Flare	F
016108[1]	100 to 400	40 to 150	SPDT	3′	1/4 Flare	F
016570[1]	100 to 400	40 to 150	SPDT	None	1/4 Flare	M
016142*	100 to 400	17, Fixed	SPDT	3′	1/4 Flare	F
016166	50 to 150	10 to 40	SPDT	3′	1/4 Flare	F
016624	12″ to 80	4 to 38	SPST, Opens Low	3′	1/4 Flare	F
016261	10″ to 100	Manual Reset	SPDT, Locks on Decrease	4′	1/4 Flare	F
016585	10″ to 100	Manual Reset	SPDT, Locks on Decrease	None	1/4 Flare	M
016200	150 to 450	Manual Reset	SPDT, Locks on Increase	4′	1/4 Flare	F
016209	150 to 450	Manual Reset	SPDT, Locks on Increase	None	1/4 Flare	M

[1] Suitable for Head Pressure Fan Cycling Application



0101401

SINGLE FUNCTION

RANCO

Part No.	Pressure Range (psi)	Differential	Switch	Capillary Length	Connection Size (In.)	Gender
0101401	12″ to 50	5 to 35	SPST, Open Low	None	1/4 Flare	M
0101402	12″ to 50	5 to 35	SPST, Open Low	3′	1/4 Flare	F
0101483	10″ to 100	10 to 40	SPST, Open Low	3′	1/4 Flare	F
0101831	10″ to 100	10 to 40	SPST, Open Low	None	1/4 Flare	M

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN CYCLING


0102054

Part No.	Pressure Range (psi)	Differential	Switch	Capillary Length	Connection Size (In.)	Gender
0102054[1]	100 to 400	40 to 150	SPST, Open Low	3′	1/4 Flare	F
0101894*[1]	100 to 400	40 to 150	SPST, Open Low	None	1/4 Flare	M
0207006	100 to 400	40 to 150	DPST, Open Low	3′	1/4 Flare	F

[1] Suitable for head pressure for cycling application.

HIGH PRESSURE


0111711

Part No.	Pressure Range (psi)	Differential	Switch	Capillary Length	Connection Size (In.)	Gender
0111711	150 to 450	50 to 100	SPST, Open High	3′	1/4 Flare	F

SPST,SPDT SWITCH


060-5231

- Snap action electrical contacts
- The fail-safe dual bellows used in 600 psi controls prevent refrigerant loss and enable premature cut-out when a fault occurs
- Manual trip allows electrical function test without tools
- Repeatability less than 0.1 psi drift, even after 400000 cycles
- Contact rating: 24 F.L. Amp 240 Vac

Part No.	Pressure Range (psi)	Differential Pressure	Switch	Capillary Length	Connection Size (In.)	Gender
060-5231*	6″ to 108	10 to 60 psi	SPDT	None	1/4 Flare	M
060-5233*	6″ to 108	10 to 60 psi	SPDT	3′	1/4 Flare	F
060-5232*	28″ to 100	10 psi fixed	SPDT	None	1/4 Flare	M
060-5234*	28″ to 100	10 psi fixed	SPDT	3′	1/4 Flare	F
060-5237*	6″ to 73	6 to 30 psi	SPST, open low	None	1/4 Flare	M
060-5235*	6″ to 73	6 to 30 psi	SPST, open low	3′	1/4 Flare	F
060-5239*	6″ to 73	6 to 30 psi	SPDT	None	1/4 Flare	M
060-5241*	100 to 465	25 to 85 psi	SPST, open low	None	1/4 Flare	M
060-5242*	100 to 465	25 to 85 psi	SPST, open low	3′	1/4 Flare	F
060-5243*	100 to 600	58 to 145 psi	SPDT	None	1/4 Flare	M
060-5244*	100 to 600	60 psi fixed	SPDT, Man Reset	None	1/4 Flare	M
060-5245*	100 to 600	58 to 145 psi	SPDT	3′	1/4 Flare	F
060-5246*	100 to 600	60 psi fixed	SPDT, Man Reset	3′	1/4 Flare	F

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DUAL PRESSURE

SINGLE POLE

This P70 Series of dual pressure controls employs an SPST switch, that is opened when either high pressure or low pressure beyond the control settings is sensed at the control's two bellows sensing elements.



P70LB1

SINGLE POLE

- High pressure range: 100-500 psig
- High pressure differential: 65 psi < 300 psig; 75 psi 300-400 psig; 95 psi >400 psig
- Maximum over pressure: 475 psig Low; 525 psig High
- Contact rating: 17 F.L. Amp 240V

Johnson Controls

	Low Pressure	High Pressure		Reset		Connection
Part No.	**Range (psig)**	**Range (psig)**	**Differential (psi)**	**High**	**Capillary Length**	**Size**
P70LB1*	20″ to 100	100 - 500 psig	7 to 50	Auto	3′	1/4 FFL
P170LB1*	20″ to 100	100 - 500 psig	7 to 50	Auto	None	1/4 MFL
P70LB6*[1]	12″ to 80	100 - 500 psig	5 to 35	Auto	3′	1/4 FFL
P170LB6*[1]	12″ to 80	100 - 500 psig	5 to 35	Auto	None	1/4 MFL
P70MA18*[1]	12″ to 80	100 - 500 psig	5 to 35	Manual	3′	1/4 FFL
P70MA1*	20″ to 100	100 - 500 psig	7 to 50	Manual	3′	1/4 FFL
P170MA1*	20″ to 100	100 - 500 psig	7 to 50	Manual	None	1/4 MFL
P70NA1*	20″ to 100	100 - 500 psig	Manual Reset	Manual	3′	1/4 FFL
P70MA2*[2]	20″ to 100	100 - 500 psig	7 to 50	Manual	None	1/4 FPT

[1] Micro set control [2] For ammonia service



P72MA1

TWO POLE

- High pressure range: 100-425 psig
- Differential: 55 psi < 300 psig; 65 psi fi 300 psig
- Maximum over pressure: 525 psig
- Contact rating: 24 F.L. Amp 240V

Johnson Controls

		Low Pressure		High Pressure	Reset		Connection
Part No.	**Switch**	**Range (psig)**	**Differential (psi)**	**Range (psig)**	**High**	**Capillary Length**	**Size**
P72MA1*	DPST	20″ to 100	6 to 50	100 - 425 psig	Manual	3′	1/4 FFL

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


0121502

SINGLE POLE

These controls offer a tailored variety of ranges and options for refrigerants. Low and high pressure functions are combined into a single control with one switch.

- Convertible (auto or manual) reset or automatic high pressure reset models
- Contact rating: 24 F.L. Amp 240 Vac
- 022 DPST switch: 12 F.L. Amp 240 Vac

RANCO

		Low Pressure		High Pressure		Reset			Connection	
Part No.	Switch	Range (psig)	Differential (psi)	Range (psig)	Differential (psi)	Low	High	Capillary Length	Size	Gender
0121502	12 F.L. Amp 240 Vac	12" to 50	5 to 35	150 to 450	70, Fixed	Automatic	Automatic	3'	1/4 Flare	F
0121505	12 F.L. Amp 240 Vac	12" to 50	5 to 35	100 to 250	50, Fixed	Automatic	Automatic	None	1/4 Flare	M
0121506*	12 F.L. Amp 240 Vac	12" to 50	5 to 35	100 to 250	50, Fixed	Automatic	Automatic	3'	1/4 Flare	F
0121549	12 F.L. Amp 240 Vac	10" to 100	10 to 40	150 to 450	70, Fixed	Automatic	Automatic	3'	1/4 Flare	F
0121550*	12 F.L. Amp 240 Vac	10" to 100	10 to 40	150 to 450	70, Fixed	Automatic	Automatic	None	1/4 Flare	M
0124833*	12 F.L. Amp 240 Vac	12" to 50	5 to 35	150 to 450	70, Fixed	Automatic	Convertible	4'	1/4 Flare	F
0124834*	12 F.L. Amp 240 Vac	10" to 100	10 to 40	150 to 450	70, Fixed	Automatic	Convertible	4'	1/4 Flare	F
0124846	12 F.L. Amp 240 Vac	10" to 100	10 to 40	150 to 450	70, Fixed	Automatic	Convertible	None	1/4 Flare	M
0121594	12 F.L. Amp 240 Vac	10" to 100	Manual	150 to 450	Manual	Manual	Manual	3'	1/4 Flare	F
0227706	12 F.L. Amp 240 Vac	10" to 100	10 to 40	150 to 450	70, Fixed	Automatic	Convertible	3'	1/4 Flare	F


060-5247

SINGLE POLE

- Snap action electrical contacts, 24 F.L.A at 240V
- The fail-safe dual bellows used in 600 psi controls prevent refrigerant loss and enable premature cut-out when a fault occurs
- Manual trip allows electrical function test without tools
- Repeatability less then 0.1 psi drift, even after 400 000 cycles

ENGINEERING TOMORROW Danfoss

	Low Pressure		High Pressure		Reset			Connection	
Part No.	Range (psig)	Differential (psi)	Range (psig)	Differential (psi)	Low	High	Capillary Length	Size	Gender
060-5247*	6" to 108	10 to 60	100 to 465	60 fixed	Automatic	Automatic	None	1/4 Flare	M
060-5248*	6" to 108	10 to 60	100 to 465	60 fixed	Automatic	Automatic	3'	1/4 Flare	F
060-5249*	6" to 108	10 to 60	100 to 465	60 fixed	Automatic	Manual	None	1/4 Flare	M
060-5250*	6" to 108	10 to 60	100 to 465	60 fixed	Automatic	Manual	3'	1/4 Flare	F
060-5253*	6" to 108	10 to 60	100 to 600	60 fixed	Convertible	Convertible	None	1/4 Flare	M
060-5254*	6" to 108	10 to 60	100 to 600	60 fixed	Convertible	Convertible	3'	1/4 Flare	F

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CRITICAL CHARGE HOSE



NTPH8Y1

CRITICAL CHARGE HOSE KIT

- 2 mm refrigerant hose kits
- Factory approved for R290, R507A, R404A, R410A, R407A,R407C, R134a, R744 (CO2)
- Working pressure 1,000 PSI
- Burst Pressure 5,000 PSI
- Maximum temperature ratings: -40°F to 266°F
- il compatibility: Mineral, PAG, Alkyl benzene, Polyester
- Includes gasket and depressor

NATIONAL REFRIGERATION PRODUCTS

		Connection	
Part No.	Length (In.)	Size (In.)	Type
NTPH8Y1*	6.00	1/4	FFL
NTPH12Y1*	6.00	1/4	FFL
NTPH8RBY1*	6.00	1/4	FFL
NTPH12RBY1*	6.00	1/4	FFL
NTPH18RBY1*	6.00	1/4	FFL

CONTROL HOSE



FH14

FLEXIBLE TUBING

International Refrigeration Products

		Connection	
Part No.	Length (In.)	Size (In.)	Type
FH14	14.00	1/4	MFL
FH38	14.00	3/8	MFL
FH12	14.00	1/2	MFL
FH58	14.00	5/8	MFL



NTFH18

REFRIGERANT PRESSURE CONTROL / OIL DISTRIBUTION HOSE

- 5 mm refrigerant pressure control, oil distribution hose
- Oil compatibility: Mineral, Alkylbenzene, PAG, POE
- Maximum working pressure: 1000 psi
- Burst pressure: 5500 psi
- Maximum temperature ratings: -40°F to 266°F
- Applications:
- Pressure Sensing Applications
- Low and high Pressure Safety Controls
- Oil Flow Controls
- Oil Pressure Controls
- Water Flow Controls
- Refrigerant Gauges
- Capacity Control Regulators

NATIONAL REFRIGERATION PRODUCTS

		Connection	
Part No.	Length (In.)	Size (In.)	Type
NTFH18*	1.00	1/4	FFL
NTFH24*	1.00	1/4	FFL
NTFH30*	1.00	1/4	FFL
NTFH36*	1.00	1/4	FFL
NTFH48*	1.00	1/4	FFL
NTFH60*	1.00	1/4	FFL
78760	60.00		

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



NPCH18

- Maximum operating pressure: 600 psi
- Burst pressure: 3000 psi
- 1/4" fem flare x 1/4" 90° fem flare

		Connection	
Part No.	Length (In.)	Size (In.)	Type
NPCH18	11.30	1/4	FFL
NPCH24	11.00	1/4	FFL
NPCH30	11.80	1/4	FFL
NPCH36	14.00	1/4	FFL
NPCH48	14.50	1/4	FFL
NPCH60	13.50	1/4	FFL
NPCH96	1.00	1/4	FFL



NTPH18

- Pressure only, cannot be used for flow/oil
- All pressure applications: safety controls, high and low, regulating valves, gauges
- Maximum working pressure: 1000 psi
- Burst pressure: 5000 psi
- Maximum temperature ratings: -40°F to 266°F
- 1/4" fem flare x 1/4" 90° fem flare
- Oil and UV resistant, mineral, alkyl benzene, polyester, PAG

		Connection	
Part No.	Length (In.)	Size (In.)	Type
NTPH18*	1.00	1/4	FFL
NTPH24*	1.00	1/4	FFL
NTPH30*	1.00	1/4	FFL
NTPH36*	1.00	1/4	FFL
NTPH48*	1.00	1/4	FFL
NTPH60*	1.00	1/4	FFL



1290132B24

- Replaces regular copper capillary tubing on failure cut out controls and pressure controls.
- Eliminates capillary failure due to work hardening from vibration
- Operates to 600 psi and 252°F
- 1/4" female flare x 1/4" female flare

		Connection	
Part No.	Length (In.)	Size (In.)	Type
1290132B24	0.00	1/4	FFL
1290132B36	0.00	1/4	FFL
1290132B48	0.00	1/4	FFL

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CONTROL HOSE


SEC99AA24C

The SEC99A UltraCap armored capillary is designed for use as a pressure connection in refrigeration and air conditioning applications. The small orifice capillary minimizes pressure pulsation and the brass armor sleeve improves resistance to abrasion caused by vibration

- Physical Features:
  - Tubing ID: 0.062"
  - SEC99AA: 1/4" female flare straight (depressor one end)
  - SEC99AB: 1/4" female flare straight x 90° (depressor both ends)
  - SEC99AD: 1/4" female flare straight x 90° (no depressor)
- UL recognized

Johnson Controls

		Connection	
Part No.	Length (In.)	Size (In.)	Type
SEC99AA24C*	0.00	1/4	FFL
SEC99AA36C*	0.00	1/4	FFL
SEC99AB18*	5.00	1/4	FFL
SEC99AB24*	5.20	1/4	FFL
SEC99AB36*	5.00	1/4	FFL
SEC99AB48*	5.00	1/4	FFL
SEC99AB60*	0.00	1/4	FFL
SEC99AD18*	5.20	1/4	FFL
SEC99AD24*	1.00	1/4	FFL
SEC99AD36*	1.00	1/4	FFL
SEC99AD48*	1.00	1/4	FFL

HEAD PRESSURE, FAN SPEED CONTROL

PRESSURE RESPONSIVE



P266ABA100C

The P266 fan speed control is designed for approved single phase, PSC motors commonly used in a wide variety of refrigeration and air conditioning condenser fan applications. Designed to replace P66 and P215 Series fan speed controls. P266 controls have current ratings from 4 to 12 A depending on the voltage and model.

- Wide, adjustable pressure throttling range
- Optional auxiliary fan control provides control of up to three fixed-speed fans or fan stages in conjunction with the speed controlled fan or fan stage.
- Optional low-speed capacitor mode enables cooler, quieter, and more efficient fan motor operation at low speeds.
- NEMA 3R, (IP54) enclosure with integral metal heat-sink

Johnson Controls

Part No.	Voltage	High VAC Triacs	Nb. of Aux. Fan Control Circuits	Amps
P266ABA100C*	208 - 240 Vac	3	3	8.0
P266ACA100C*	208 - 240 Vac	1	0	8.0
P266BCA100C*	440 to 575 Vac	1	0	4.0
P266BHA100C*	440 to 575 Vac	2	3	4.0

PRESSURE TRANSDUCER


P266SNR1C

Electronic pressure transducer for P266 fan speed control modules

- Includes 6.6' cable
- 1/4 FFL connection

Johnson Controls

Part No.	Pressure Range (psi)	Connection Size (In.)
P266SNR1C*	0 to 508	1/4 FFL
P266SNR2C*	0 to 754	1/4 FFL

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PRESSURE TRANSDUCER 1/8" MPT



P499RAP101C

Part No.	Description	Length (In.)	Output Voltage	Pressure Range (psi)
P499RAP101C*	Individual	1.00	0.5 to 4.5 Vdc	0 to 100
P499RAP102C*	Individual	1.00	0.5 to 4.5 Vdc	0 to 200
P499RAP105C*	Individual	4.00	0.5 to 4.5 Vdc	0 to 500
P499AAP105C*	Individual	1.00	4 to 20 mA	0 to 500
P499RAP101K*	Kit	1.00	0.5 to 4.5 Vdc	0 to 100
P499RAP105K*	Kit	1.00	0.5 to 4.5 Vdc	0 to 500

PRESSURE TRANSDUCER 1/4" SAE

1/4" female flare connection with depressor



P499RCP101

Part No.	Description	Length (In.)	Output Voltage	Pressure Range (psi)
P499RCP101*	Individual	4.00	0.5 to 4.5 Vdc	0 to 100
P499RCPS102C	Individual	1.00	0.5 to 4.5 Vdc	0 to 200
P499RCP105*	Individual	4.25	0.5 to 4.5 Vdc	0 to 500
P499ACP107*	Individual	1.00	4 to 20 mA	0 to 750
P499RCP101K*	Kit	6.75	0.5 to 4.5 Vdc	0 to 100
P499RCP105K*	Kit	6.75	0.5 to 4.5 Vdc	0 to 500
P499ACP105K*	Kit	1.00	4 to 20 mA	0 to 500
P499ACP107K*	Kit	1.00	4 to 20 mA	0 to 750
P499RCP107K*	Kit	5.70	0.5 to 4.5 Vdc	0 to 750
P499VCP105K[1]	Kit	1.00	0 to 10 Vdc	0 to 500 psig

[1] Includes transducer, 6.5' wire harness

WIRING HARNESS

Use WHAP with 499 pressure transducer.



WHAPKD3200C

Part No.	Length (In.)	Use with
WHAPKD3200C*	1.00	P399/P499 Transducer

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LUBE OIL



P128AA1

ELECTROMECHANICAL

The P28 series provides dependable shutdown on pressure of lubricated refrigeration compressors by sensing low lube oil pressure. A built-in time delay switch, accurately compensated for ambient temperature, allows for pressure pick up on start and avoids nuisance shutdowns on pressure drops of short duration during the running cycle.

- Heater circuit: 120/240 Vac
- Range: 8-70 psig

Part No.	Time Delay	Pressure Range (psi)	Reset	Pressure Connection (In.)	Capillary Length	Heater Circuit
P128AA1*	90 Sec.	8-70 psig	Manual	1/4 M Flare	None	120/240 Vac
P128AA17*	120 Sec.	8-70 psig	Manual	1/4 M Flare	None	120/240 Vac



P45NAA5

ELECTROMECHANICAL, COPELAND, CARLYLE

The P45 control provides dependable, low lube oil pressure cut out for lubricated refrigeration compressors. The factory set pressure provides operation to the compressor manufacturer's specification. A built-in time delay relay, compensated for ambient temperature, allows for pressure pick-up on start and avoids nuisance shutdowns on short duration pressure losses during the running cycle.

- Max. bellows pressure: 425 psig
- Manual reset

Part No.	Time Delay	Reset	Pressure Connection (In.)	Capillary Length	Heater Circuit	Factory Setting (Lbs.)	Alarm Circuit	Use with
P45NAA5*	120 Sec.	Manual	1/4 F Flare	3'	24 Vac	9.0	No	
P145NCB12*	120 Sec.	Manual	1/4 M Flare	None	120/240 Vac	9.0	Yes	Copeland
P145NCB82*	45 Sec.	Manual	1/4 M Flare	None	120/240 Vac	6.5	Yes	Carlyle



P545NCB22

ELECTRONIC, COPELAND, CARLYLE

The P545 Series electronic lube oil control is designed for use on refrigeration compressors equipped with an oil pump that accepts a single-point differential pressure transducer. The P545 senses net lube oil pressure and de-energizes the compressor if lube oil pressure falls below the manufacturer's recommendation for longer than the time delay. Front-mount LEDs indicate the status of the lubrication system and a user selectable time delay can be set to minimize compressor short cycling.

- P545 controls include pressure sensor and wiring harness
- P400 series sensors will adapt to either 300 or 400 series wire harness; test switch will not function with an older control

Part No.	Description	Pressure Open (psid)	Application
P545NCB22*	Control, 120 sec. delay, with switch and wire harness	7.0±1.0	Copeland
P545NCB82*	Control, 120 sec. delay, w/ switch and wire harness	12.75±0.75	Carlyle
P545NCB25*	Control, 90 sec. delay, w/ switch and wire harness	10.0±1.5	Bitzer

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


P303701

ELECTROMECHANICAL

These lube oil protection controls guard pressure lubricated refrigeration compressors against major damage due to loss of oil pressure. If adequate oil pressure is lost, the built-in S30 time delay switch starts timing. If the oil pressure does not recover within the set period, the control circuit is opened, stopping the compressor.
The range is the difference between the crankcase pressure and the oil pump pressure that will energize the time delay switch and lead to shutdown. The difference in oil pressure needs to rise 7 psi above the range to de-energize the time delay switch and prevent eventual shutdown.

- Voltage: 120/240 Vac

ARANCO

Part No.	Time Delay	Pressure Range (psi)	Pressure Connection (In.)	Capillary Connection (In.)
P303701*	90 Seconds	8-60		36
P305826*	120 Seconds	9	36	36, 1/4 Female SAE
P303801*	120 Seconds	8-60	36	


060B2002

ELECTROMECHANICAL

Oil differential pressure controls are used as safety switches to protect refrigeration compressors against low lubricating oil pressure. If the oil pressure fails, the control will stop the compressor after a predetermined time period has elapsed.

- Simple manual trip, electrical test function eliminates need of tools and jumper wires
- Extremely narrow switch differential accuracy
- Range: 29" to 170 psi, ? p either factory set or adjustable
- 060B2012 includes normal compressor operation check light; goes off on time delay initiation

ENGINEERING TOMORROW Danfoss

Part No.	Time Delay	Pressure Range (psi)	Reset	Pressure Connection (In.)	Capillary Length	Factory Setting (Lbs.)	Alarm Circuit
060B2002*	90 Sec.	29" to 170	Manual	1/4 M Flare	None	9 psi, fixed	No
060B2008*	45 Sec.	29" to 170	Manual	1/4 M Flare	None	6 psi, fixed	No

WATER REGULATING, PRESSURE ACTUATED


V146GL1001C

DIRECT ACTING, V146 SERIES, TWO-WAY

Pressure-Actuated Water-Regulating Valves designed to regulate water flow and control refrigerant head pressure in systems with water-cooled condensers. Ideal for applications with system water pressures of up to 350 psi, such as high-rise buildings.

- No Close-Fitting or Sliding Parts in Water Passages
- High-Pressure Design
- Pressure-Balanced Design
- Corrosion-Resistant Material for Internal Parts
- Accessible Range Spring
- Take-Apart Construction


V146GL1001C

DIRECT ACTING, V146 SERIES, TWO-WAY

Johnson Controls

	Connection			
Part No.	Size (In.)	Type	Opening Point Range (psi)	Pressure Connection (In.)
V146GL1001C*	1 1/8	Union Sweat	200 to 400	1/4 F Flare

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WATER REGULATING, PRESSURE ACTUATED

V148 SERIES, THREE-WAY


V148GL1001C

	Connection			
Part No.	Size (In.)	Type	Opening Point Range (psi)	Pressure Connection (In.)
V148GL1001C*	1 1/8	Union Sweat	200 to 400	1/4 F Flare

DIRECT ACTING, V46 SERIES


V46AA1

	Connection				
Part No.	Size (In.)	Type	Opening Point Range (psi)	Pressure Connection (In.)	Capillary Length
V46AA1*	3/8	FPT	70 to 260	1/4 F Flare	30″
V46DA2*[1]	3/8	FPT	70 to 260	1/4 F Flare	30″
V46AB1*	1/2	FPT	70 to 260	1/4 F Flare	30″
V46AC1*	3/4	FPT	70 to 260	1/4 F Flare	30″
V46AC3*	3/4	FPT	70 to 260	1/4 F Flare	48″
V46AD1*	1	FPT	70 to 260	1/4 F Flare	30″
V46AD13C*	1	FPT	70 to 260	1/4 M Flare	None
V46AE1*	1 1/4	FPT	70 to 260	1/4 F Flare	30″
V46AR1*	1 1/2	4 Hole, ASME Flange	70 to 260	1/4 F Flare	30″
V46AS1*	2	4 Hole, ASME Flange	70 to 170	1/4 M Flare	None
V46AS2*	2	4 Hole, ASME Flange	160 to 260	1/4 M Flare	None
V46AT1*	2 1/2	4 Hole, ASME Flange	70 to 170	1/4 M Flare	None
V46AT2*	2 1/2	4 Hole, ASME Flange	160 to 260	1/4 M Flare	None

[1] Low flow model, 2.5 GPM maximum

DIRECT ACTING, MARITIME, V46 SERIES


V46BB2

- Cast naval bronze with monel interior.
- Pressure connection: 1/4″ sweat
- Opening point range: 70 to 260 psi

	Connection				
Part No.	Size (In.)	Type	Opening Point Range (psi)	Pressure Connection (In.)	Capillary Length
V46BB2*	1/2	FPT	70 to 260	1/4 Sweat	30″
V46BC2*	3/4	FPT	70 to 260	1/4 Sweat	30″
V46BD2*	1	FPT	70 to 260	1/4 Sweat	30″

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


V48AB2C

THREE-WAY

V48 Series valves are designed specifically for condensing units cooled either by atmospheric or forced draft cooling towers.

- Maximum water pressure: 150 psig
- Pressure connection: 1/4" FFL

Johnson Controls

Part No.	Pipe Size (In.)	Pressure Connection (In.)	Capillary Length	Opening Point Range Normally Closed (psig)	Max. Bellows (psig)
V48AB2C*	1/2 FPT	1/4 F Flare	30"	145 to 190	320
V48AD2*	1 FPT	1/4 F Flare	30"	145 to 190	320


V246GA1001C

DIRECT ACTING, V246 SERIES, TWO-WAY

Johnson Controls

	Connection			
Part No.	**Size (In.)**	**Type**	**Opening Point Range (psi)**	**Pressure Connection (In.)**
V246GA1001C*	3/8	FPT	200 to 400	1/4 M Flare
V246GB1001C*	1/2	FPT	200 to 400	1/4 M Flare
V246GC1001C*	3/4	FPT	200 to 400	1/4 M Flare
V246GD1001C*	1	FPT	200 to 400	1/4 M Flare
V246GE1001C*	1 1/4	FPT	200 to 400	1/4 M Flare
V246GM1001C*	1 1/4	Union Sweat	200 to 400	1/4 M Flare
V246GR1001C*	1 1/2	Flange	200 to 400	1/4 M Flare


V246HD1001C

DIRECT ACTING, MARITIME, V246 SERIES, TWO-WAY

The maritime models have nickel copper (Monel®) internal parts.

Johnson Controls

	Connection			
Part No.	**Size (In.)**	**Type**	**Opening Point Range (psi)**	**Pressure Connection (In.)**
V246HD1001C*	1	FPT	200 to 400	1/4 M Flare

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WATER REGULATING, PRESSURE ACTUATED



V248GD1001C

DIRECT ACTING, V248 SERIES, THREE-WAY

V248 Series 3-way valves are designed specifically for condensing units cooled either by atmospheric or foced draft cooling towers. The V248 valves are used on single or multiple condenser hook-ups to the tower to provide the most economical and efficient use of the tower.

- Use with R410A refrigerant
- Maximum water temperature: 170°F
- Maximum permissible water pressure: 150 psig
- Pressure connection: 1/4 MFL

	Connection			
Part No.	Size (In.)	Type	Opening Point Range (psi)	Pressure Connection (In.)
V248GD1001C*	1	FPT	200 to 400	1/4 M Flare
V248GE1001C*	1 1/4	FPT	200 to 400	1/4 M Flare
V248GL1001C*	1 1/8	Union Sweat	200 to 400	1/4 M Flare
V248GM1001C*	1 3/8	Union Sweat	200 to 400	1/4 M Flare



V47AA1

The V47 is a temperature actuated modulating valve that regulates the flow of water or glycol to maintain a desired temperature.

- Maximum bulb temperature: 20°F above range
- Maximum water temperature: 170°F
- Maximum water pressure: 150 psig
- Capillary: 6' nylon armor

Part No.	Pipe Size (In.)	Opening Point Range (psi)	Bulb (In.)
V47AA1*	3/8 FPT	115 to 180	11/16 x 3 1/4
V47AA3*	3/8 FPT	75 to 135	11/16 x 6 Cross Ambient
V47AB3*	1/2 FPT	115 to 180	11/16 x 3 1/4
V47AB5*	1/2 FPT	75 to 135	11/16 x 10 Cross Ambient
V47AC3*	3/4 FPT	115 to 180	11/16 x 3 1/4
V47AC6*	3/4 FPT	75 to 135	11/16 x 10 Cross Ambient
V47AD1*	1 FPT	75 to 135	11/16 x 16 1/4 Cross Ambient
V47AD2C*	1 FPT	115 to 180	11/16 x 6
V47AE1C*	1 1/4 FPT	75 to 135	11/16 x 16 1/4 Cross Ambient
V47AE2C*	1 1/4 FPT	115 to 180	11/16 x 6
V47AE3C*	1 1/4 FPT	160 to 230	11/16 x 6
V47AR2*	1 1/2 FPT	115 to 180	11/16 x 6

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DEFROST


804100

TIME

These timers are adjustable from one to six cycles per day. A minimum of four hours is required between successive operations. Defrost duration ranges from 4 to 110 minutes and is easily adjustable.

- Time initiation, time termination
- Contact rating: 40 amps resistive/ pole

PARAGON

Part No.	Switch	Voltage
804100*	2-NC/1-NO	120
804120*	2-NC/1-NO	208/240
804500*	SPDT	120
804520*	SPDT	208/240
804700*	2-NO/1-NC	120
804720*	2-NO/1-NC	208/240


BTT4100

TIME

These timers are adjustable from one to six cycles per day. A minimum of four hours is required between successive operations. Defrost duration ranges from 4 to 110 minutes in 2 minute increments and is easily adjustable.

- Time initiation, time termination
- Contact rating: 40 amps resistive/ pole

IRP International Refrigeration Products

Part No.	Switch	Voltage
BTT4100*	2-NC/1-NO	120
BTT4120*	2-NC/1-NO	208/240
BTT4500*	SPDT	120
BTT4520*	SPDT	208/240


814100

TEMPERATURE, PRESSURE

Backup mechanical defrost termination protects against sensor malfunction. 1 to 6 cycles per day. A minimum of 4 hours between successive defrost cycles. Adjustable from 4 to 110 minutes in 2 minute increments.

- Time initiation, temperature/pressure termination
- Contact rating: 40 amp resistive/ pole

PARAGON

Part No.	Switch	Voltage
814100*	2-NC/1-NO	120
814120*	2-NC/1-NO	208/240
814300*	2-NO/1-NC	120
814320*	2-NO/1-NC	208/240
814500*	SPDT	120
814520*	SPDT	208/240
814520B*[1]	SPDT	208/240

[1] Bracket mount


BTP4100

TEMPERATURE, PRESSURE

These timers are adjustable from one to six cycles per day. A minimum of four hours is required between successive operations. Defrost duration ranges from 4 to 110 minutes in 2 minute increments and is easily adjustable.

- Time initiation, temperature or pressure termination
- Contact rating: 40 amps resistive/ pole

IRP International Refrigeration Products

Part No.	Switch	Voltage
BTP4100*	2-NC/1-NO	120
BTP4120*	2-NC/1-NO	208/240
BTP4500*	SPDT	120
BTP4520*	SPDT	208/240

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DEFROST



8145AV

AUTO VOLTAGE TIMER

This all-in-one auto voltage defrost timer replaces over 40 competitive voltage-specific mechanical defrost timers, eliminating the need for a separate short cycle timer and single-phase voltage monitor.

- Auto Voltage automatically adjusts for 120-277 VAC
- Compressor contacts 3HP
- Heater/Fan contacts 2HP
- LED indicators for defrost and refrigeration cycles
- Built-in permanent housing protects components from damage
- Mounts into existing closures, no tools required
- Real time clock face for easy accurate settings
- Defrost times programmable in 15-minute intervals with captive trippers
- Heavy-duty steel enclosure with knockouts (on the bottom, back and sides) and hasp
- Switch Rating: 40amp/3Hp/720VA/120-240VAC
- 8145AVM: mechanism only model

PARAGON

Part No.	Switch	Voltage
8145AV*	2-NC/1-NO	120-240



904500

ELECTRONIC

- Real time clock.
- Initiate 15 minute manual defrost
- System status indicators
- 100 hours of power loss protection for both time and defrost schedule.
- Mechanism will fit in the standard Paragon enclosures; mechanism only versions are available
- Power comsumption: 6VA max
- Wires directly to 120V AC, 208V AC or 230V AC power sources without jumpers or switches
- Easy programming, easy set-up, set time, set defrost start and defrost end
- Display shows defrost start time and duration

PARAGON

Part No.	Description	Contact Rating (Amps)
904500*	Time Initiate/Time Terminate Defrost Timer with Metal Enclosure, SPST	30 amp (NC)
914500*	Time Initiate/Temperature, Pressure Terminate Defrost Timer with Metal Enclosure, SPDT	15 amp (NC)/30 amp (NO) resistive



DTAV40

DTAV SERIES, AUTO-VOLTAGE

The DTAV40 defrost control automatically selects the appropriate voltage between 120VAC and 240VAC without the use of a dip switch/selector pins.

- Reduce installation time
- Heavy-duty 40 Amp mechanical control
- 40 Amp resistive, 120-240 VAC
- 1 HP 120 VAC, 2 HP 240 VAC
- Operation temp: -40° to 104°F
- 24-hour analog, captive trippers, 15 minute switching intervals
- Electrical Life: 50,000 Operations at full load

INTERMATIC

Part No.	Description	Enclosure
DTAV40	40 Amp Auto Volt Defrost Control w/ Outdoor Enclosure	NEMA 3R Raintight Plastic
DTAV40M	40 Amp Auto Volt Defrost Control, Mechanism Only	None
DTAV40Q	40 Amp Auto Volt Defrost Control, Quartz, 7 Day Carryover	NEMA 3R Raintight Plastic



DDFM

ICUBE™ ADAPTIVE DEFROST MODULE

Whether you are installing a total time clock replacement or looking for a fast retrofit, the ICUBE™ Module is an easy-to-integrate, low-cost solution for commercial refrigeration systems found in all types of food-service facilities.

- Assembles directly into existing DTAV40 Time Initiated, Temperature, Pressure or Time Terminated Defrost Timers.
- Demand defrost: only defrosts evaporator coils when necessary.
- Kit includes one temperature sensor and new faceplate.
- LED indicator conveys status and fault conditions, including efficiency mode and probe fault.
- Maintains the timer's scheduling to reduce frequent defrost initiations during high usage times.
- Four sensor inputs accommodate up to four evaporators or multiple sensor locations for larger coils.
- Simply install the module right underneath the existing DTAV40 FM-Timer Module and run the sensing wire from the ICUBE™ Module inputs to the evaporator coils (sensor wire runs through existing conduit); there's no need to change any other wiring in the system.
- Use DDT40 for new installations (this part already has the ICUBE™ module built-in).

INTERMATIC

Part No.	Description
DDFM	ICUBE™ Adaptive Defrost Refrigeration Module with Sensor
DDT40	Adaptive Defrost Refrigeration Time Control with ICUBE™ Module, Sensor, and Type 3R Enclosure

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ERC2212111

ERC2 SERIES

The ERC-2 is a microprocessor-based controller designed to manage all of the temperature and defrost functions in a typical piece of commercial refrigeration equipment. By integrating these functions into one device, the ERC-2 can replace up to five different controls; the case thermostat, defrost timer, defrost termination switch, fan delay switch, and thermometer.

The ERC-2 includes two NSF approved temperature sensors for the case and the evaporator. Also featured are four powerful relay outputs; one each for the compressor, fan, defrost and alarm. Selectable line voltage input power (120/208/240VAC at 50/60Hz) enable it to handle a wide range of equipment.

- Sensors may be extended to 100' with 18-22 gauge wire
- Temperature Setpoint: -40°F to +60°F
- Defrost Cycles: 1 to 8 per day or 1 every 48 hours
- Contact Rating: 16A Resistive (5A resistive alarm circuit)
- Case Dimensions: 4.40" W x 7.82" H x 3.80" D
- Display Module Dimensions: 2.75" W x 1.10" H x 1.38" D
- Agency Approvals: UL, NSF

PARAGON

Part No.	Description
ERC2212111	Universal Control, Integrated Display
ERC2222111*	Universal Control, Remote Display


1309007045

SENSOR, ERC2 SERIES

Sensor may be extended to 100' with 18-22 gauge wire

PARAGON

Part No.	Description
1309007045*	NTC Sensor, 120"

MULTI-CIRCUIT


A87999

FRAME MODULE

Used with A87800 or A87820 drive module and A876 or A877 circuit modules.

PARAGON

Part No.	Module Capacity
A87999*	4
A88099*	8


B87699

PROGRAM MODULE

- Solenoid modules for temperature or pressure termination with remote switch
- Used with A87800 or A87820 drive modules and A87999 or A88099 frame modules

PARAGON

Part No.	Cycle Rate	Solenoid	Voltage
B87699*	Even 1/2 Hour	No	-
D87699*	Odd Hour	No	-
A87699*	Even Hour	No	120
E87699*	Odd 1/2 Hour	No	-
A87700*	Even Hour	Yes	120
D87700*	Odd Hour	Yes	120
A87720*	Even Hour	Yes	208/240
B87720*	Even 1/2 Hour	Yes	208/240
D87720*	Odd Hour	Yes	208/240
E87720*	Odd 1/2 Hour	Yes	208/240


T7401B

7 DAY

- Different ON/OFF program each day of the week.
- True 7-day load control with minimum ON and minimum OFF times of 3 1/2 hours.
- Steel case: 12 1/2" H x 8 1/4" W x 4" D. Indoor type with toggle action drawbolt and locking feature.
- Knockouts - Combination 1/2"-3/4" nominal knockouts, two on back, one on each side and two on bottom. Also one 1" nominal on bottom center.
- Switch Rating - Each Pole 40 amp resistive, 120-480 VAC; 40 amp tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.

INTERMATIC

Part No.	Switch	Voltage	Contact Rating (Amps)
T7401B	4PST	125	40
T7402B	4PST	208-277	40
T7801B	2NO/2NC	125	40
T7802B	2NO/2NC	208-277	40

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ELECTROMECHANICAL


STUZ24

FM/1 STUZ

The FM/1 series modules are designed to be placed inside a machine control panel, circuit board, or other equipment. It offers up to 21A switching designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour scheduling.

- Size: 2.36" x 2.36" x 1.25"

Part No.	Switch	Voltage	Contact Rating (Amps)
STUZ24	SPDT	24	21
STUZ120	SPDT	120	21
STUZ220	SPDT	240	21


MIL72ASTUZ120

MIL72ASTUZ

Time based control of lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. The MIL72 time switches are available with a 24-hour (STuZ) or 7-day (SWuZ) program dial with a SPDT switch. The MIL72A series is intended for surface mounting. The control is completely enclosed in a plastic housing and includes a terminal cover and sub-base for installation and hard wiring. All units are supplied with a clear plastic cover.

- Synchronous drive
- 21A SPDT switch
- Captive trippers with interval as low as 15 minutes
- Dimensions: 2.83" x 4.0" x 2.06"

Part No.	Switch	Voltage	Contact Rating (Amps)
MIL72ASTUZ120	SPDT	120	21
MIL72ASTUZ240	SPDT	240	21


GM40AV

GM40

A universal, electromechanical clock which can automatically detect the voltage input without the use of dip switch or selector pins. The clock can operate at any voltage between 120 and 277 VAC. It selects input voltage automatically.

Part No.	Switch	Voltage	Contact Rating (Amps)
GM40AV	DPDT/SPDT	120-277	40


GMXST1120

GMX

The GMX Series Time Controls are universal, electromechanical time switches. They are a low cost alternative for applications that do not require more than 21A or 2HP 240VAC. The unit is mounted in a NEMA indoor or outdoor enclosure and is designed to control lighting, heating, air conditioning, pumps, motors, or other general purpose electrical circuits in residential, commercial, industrial and agricultural facilities.

- Contact Rating: SPDT, 21A Resistive 250VAC
- Voltage: 120 Vac

Part No.	Switch	Voltage	Contact Rating (Amps)
GMXST1120	SPDT	120	21

PERCENTAGE, SURFACE MOUNT


CT2000

- Cycling pattern from 3% to 97% of total cycle duration
- Sealed enclosure handles dusty, ammonia rich or wash-down environments
- LED indicators provide constant operation feedback
- Manual On or Off override allows users to bypass cycling pattern when required
- Total cycle durations can be set from 30 seconds up to a maximum of 30 minutes, with ON/OFF durations from 1 second up to 29 minutes.
- Power input may be any standard 120 volt or 240 volt AC supply.
- Switch type: SPST
- Resiste amps: 20 amps
- Operating Temperature: 14 to 140°F

Part No.	Switch	Voltage
CT2000	SPST	120/240 VAC, 50/60 Hz

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MECHANICAL



FF15MC

SPRING WOUND TERMINAL

These energy saving commercial timers use no electricity to operate. These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the ON time of fans, lights, motors, heaters and other energy consuming loads. Time limits of 5, 15, 30 and 60 minutes and 2, 4, 6 and 12 hours are available. The hold feature allows the user to override the automatic shut-off function for extended use of the load as required.

INTERMATIC

Part No.	Switch	Timing	Comments
FF15MC	SPST	0 to 15 Minutes	No Hold
FF4H	SPST	0 to 4 Hours	No Hold
FF6H	SPST	0 to 6 Hours	No Hold
FF6HH	SPST	0 to 6 Hours	Hold
FF12HC	SPST	0 to 12 Hours	No Hold
FF315M	SPDT	0 to 15 Minutes	No Hold
FF312HH	SPDT	0 to 12 Hours	Hold


TDOM

DELAY ON MAKE

General purpose delay on make timing function. Ideal for compressor staging and stagger-starting multiple units. Helps to reduce power surges in multiple compressor applications. When power is applied to the input, the time delay begins. After the time delay is complete, the load energizes and remains energized as long as power is applied. The control is reset by removing power during or after the time delay period.

- Voltage: 18-240 Vac
- Switch type: SPST, normally open

IRP International Refrigeration Products

Part No.	Adjustment Type	Time Delay	Input Voltage	Contact Rating (Amps)
TDOM*	Dial	2 - 600	18 - 240 Vac/ Vdc	1.5


TDOB

DELAY ON BREAK

Helps to protect air conditioning, refrigeration and heat pump equipment from damage which may be caused by the rapid short-cycling of compressors. Upon application of power, the load is energized. When the thermostat or other switch opens or there is a loss of power, the load is de-energized and the delay period begins. The compressor will not start again during the delay period.

- Anti short-cycle
- Off delay on break
- Contact rating: 1.5 amps

IRP International Refrigeration Products

Part No.	Adjustment Type	Time Delay	Input Voltage	Contact Rating (Amps)
TDOB*	Dial	2 - 600 Sec.	18 - 240	1.5 amps
ICM206B	Dial	2 - 600 Sec.	18 - 30	1.5 amps


32395

BYPASS

An adjustable, multi-voltage bypass timer that allows the temporary bypass of a control or device during start-up. At the end of the delay period the control is returned to the circuit.

mars

Part No.	Time Delay	Input Voltage	Adjustment Type	Contact Rating (Amps)
32395*	6 Sec.-8 Min.	19-240	Dial	1


ICM175B

BYPASS

Designed to bypass a control or device during startup. Typically used to bypass a low pressure switch or an oil pressure switch upon startup. Helps to eliminate nuisance lockouts. With power applied to the input, the load energizes immediately and remains energized for the length of the time delay, regardless of the state of the switch being bypassed. At the end of the time delay, the condition of the load is determined by the state of that switch.

- On delay interval timer
- Normally closed delay on make
- Ideal for low ambient startups
- Integral component for winter start kits
- Contact rating: 1 amp

ICM CONTROLS

Part No.	Time Delay	Input Voltage	Adjustment Type	Contact Rating (Amps)
ICM175B	10 - 1000	18 - 240	Dial	1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DELAY TIMER



RTEP1AD24

MULTI FUNCTION TIMER, PLUG IN

- 20 time ranges and 10 timing functions
- Time delays up to 600 hours
- P1A timing function: Cycle 2 (power start, ON first) - Cycle 1(power start, OFF first) - Interval 1 (power start) - On Delay 1 (power start)
- P2A timing function: Cycle Mode (signal start, ON First) - On Delay 2 (signal start) - Signal Off Delay 1 (signal start) - Signal On/Off Delay 1 (signal start) - Cycle 2 (signal start) - One Shot 2 (signal start)
- High repeat accuracy of ±0.2%
- ON and timing OUT LED indicators
- 2 form C delayed output contacts
- 10A Contact rating

IDEC

Part No.	Input Voltage	Timer Type	Terminal Type
RTEP1AD24	24 Vac/Vdc	Power On Trigger (Maintained Start Signal)	8 Pin Plug-In
RTEP1AF20	120-240 Vac	Power On Trigger (Maintained Start Signal)	8 Pin Plug-In
RTEP2AD24	24 Vac/Vdc	Dry Contact Trigger (Momentary Start Signal)	11 Pin Plug-In
RTEP2AF20	120-240 Vac	Dry Contact Trigger (Momentary Start Signal)	11 Pin Plug-In



SR2P06

SOCKET DIN MOUNT SCREW TYPE

- SPDT, DPDT, or 3PDT pure silver contacts
- Worldwide approvals on octal (8-pin and 11-pin) models: UL, CSA, TUV, CE
- Options include check button for test operation and indicator light

IDEC

Part No.	Description
SR2P06	Socket for 8 Pin Timers (RTEP, RR1PA, RR2P, GE1A, GT5P, GT3)
SR3P06	Socket for 11 Pin Timers (RTEP, RR3PA, GT3)



ICM253

POST PURGE

Controls the circulating fan in heat pump, air conditioning and forced air systems. Off delay timing function continues to run the fan at the end of the heating/cooling cycle.

A one second interrogation delay is provided to avoid nuisance trips due to thermostat bounce or tampering.

- Contact rating: 1 amp

ICM CONTROLS

Part No.	Input Voltage	Adjustment Type	Time Delay	Contact Rating (Amps)
ICM253	18 - 30	Dial	12 - 390	1



32382

SHORT CYCLE WITH BROWNOUT

- Lockout delay prevents rapid cycling of compensated resistor type wall thermostats
- Brownout protection prevents startup when voltage is below normal conditions
- Delay on break

MARS

Part No.	Time Delay	Input Voltage	Contact Rating (Amps)
32382*	5	24	1



ST9120U1011

ELECTRONIC FAN TIMER, GAS

Integrate control of combustion blower and circulating fan operations in a gas warm air appliance. A single circuit board providing combustion air blower control, two speed circulating air blower control, limit circuit inputs, thermostat wiring terminations.

- Central appliance wiring point simplifies appliance assembly and service.
- Fixed or field-adjustable heat fan on delay; field adjustable heat fan off delay

resideo

Part No.	Description
ST9120U1011	Furnace Timer, Adjustable Settings, Universal

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ST9103A1002

ELECTRONIC FAN TIMER, OIL

Integrate control of combustion burner and circulating fan operations in an oil furnace. A single circuit board providing combustion air blower control, two speed circulating air blower control, oil primary control, limit circuit inputs, thermostat wiring terminations and a central appliance wiring point for an oil fixed furnace

- Central appliance wiring point simplifies appliance assembly and service.
- Fixed or field-adjustable heat fan on delay; field adjustable heat fan off delay

resideo

Part No.	Description
ST9103A1002	Furnace Timer, Adjustable Off Delay


S9200U1000

UNIVERSAL INTEGRATED FURNACE TIMER

Can be used with conventional thermostats as well as the EnviraCOM™ enabled VisionPRO IAQ and FocusPRO. The S9200U1000 Universal Integrated Furnace Control is intended for residential natural or liquid propane fueled furnaces only. The S9200U1000 EnviraCOM™ communications capability allows its use in twinning applications and enables communication with local and remote diagnostic devices such as the QuickLook hand held device (QuickLook™ 72), EnviraLNK® web-based application and the W8735D Telephone Access Module (TAM).

- Main burner ignition using a 120V hot surface igniter.
- Flame rectification circuit to monitor flame presence.
- Monitoring of system pressure switch, high temperature limit, and rollout functions.

resideo

Part No.	Description
S9200U1000	Universal Hot Surface Ignition Integrated Furnace Control


47D01U843

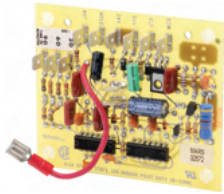
HEAT PUMP DEFROST, UNIVERSAL

Introducing the industry's first universal heat pump defrost control, replaces virtually all single stage defrost controls.

- Selectable demand or timed defrost
- O or B reversing valve with shift delay
- Configures to any system
- Universal mounting with rotating display
- One-button configuration to any OEM system
- Access set up and diagnostic menus from any orientation
- Auxiliary heat lockout
- Compressor lockout
- Reversing valve shift delay: selectable 0, 12 or 30 second delay

EMERSON

Part No.	Description
47D01U843	Universal Heat Pump Defrost Control


32572

HEAT PUMP DEFROST - 621 TYPE

Replacement for OEM Type 621 control. Pin selectable defrost interval.

- Time/temperature termination
- 50/60 Hz

mars

Part No.	Defrost Interval	Voltage	Defrost Duration (Min)
32572*	30, 60, 90	18 - 31	10, Fixed


32392

DELAY ON BREAK

- Maximum amps: 1

mars

Part No.	Adjustment Type	Time Delay	Input Voltage	Contact Rating (Amps)
32392*	Dial	6 Sec.-5 Min.	19-240	1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DELAY TIMER


32391

DELAY ON MAKE

- Model 32391 is the most popular timer in the industry
- Maximum amps: 1 (6 for 32397)

Part No.	Type Delay	Adjustment Type	Time Delay	Input Voltage	Contact Rating (Amps)
32391*	On Make	Dial	6 Sec.-8 Min.	19-240	1
32397*	On Make	Dial	1 - 1000 Sec.	24	6

DOMESTIC


A140000

DEFROST TIMER, HEAVY DUTY

These heavy duty 15 amp Paragon timers are being used by the O.E.M. manufacturers today. They will replace both the older classic design timers and the new O.E.M. versions.

Part No.	Defrost Interval	Defrost Time
A140000	6 hours	21 minutes


EDT10

UNIVERSAL, RESIDENTIAL

The EDT has a two dial adjustment configuration that allows for the setting of any defrost frequency from 4 to 12 hours and any defrost time from 10 to 35 minutes.

Part No.	Voltage	Max. Compressor Rating (HP)	Max. Resistive Lead Amps
EDT10	120	1/3	10
EDT20	208/240	1/3	5
EDT11	120	3/4	15
EDT21	208/240	3/4	20

ELECTRONIC TEMPERATURE

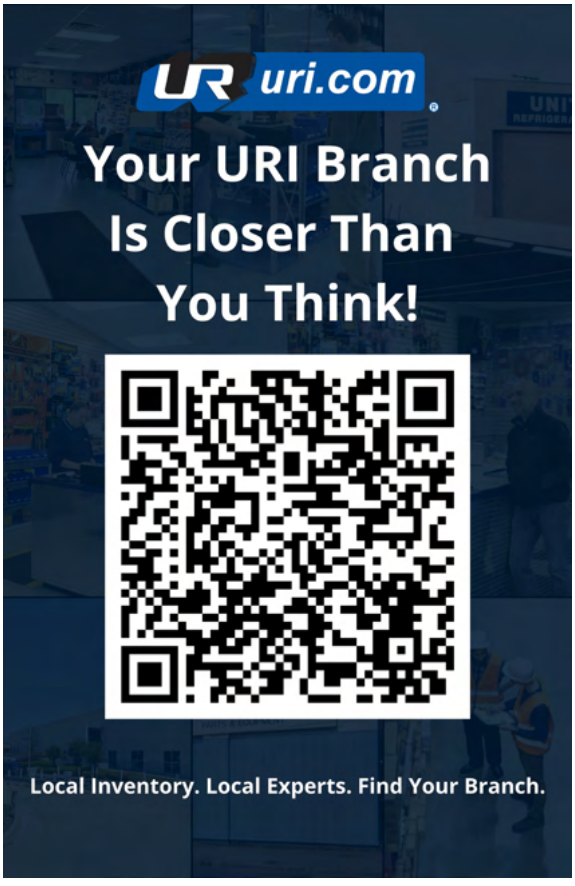

MR4PMUHV12C

DEFROST/TEMPERATURE

The MR Series temperature controls are designed for hot gas or electric heat defrost in both refrigeration and freezer units. Either time or temperature based defrost termination may be selected. The MR Series incorporates control functions such as compressor control, defrost management, fan management, and alarm management.

- Time initiation, time, temperature termination
- Combined functionality of an electromechanical thermostat, mechanical clock, defrost termination device, and temperature readout device
- 2 sensors included: 6' leads
- Contact rating: (compressor, heater relays), 12 F.L. Amp 240 Vac
- Temperature/defrost

Part No.	Description	Contact Rating (Amps)
MR4PMUHV12C*	Electronic Refrigeration Control	(compressor, heater relays), 12 F.L. Amp 240 Vac



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, COMBINATION



700204

HYDRAULIC SNAP-THROTTLE

The 700-200 Series snap-action and snap-throttle (modulating) hydraulic controls are combination gas valves, thermostatically operated by a remote temperature sensing bulb. Two types of temperature adjustment models are available. One type is a single capillary model with the temperature adjustment knob on the gas valve itself. The second type is the remote dial, dual capillary model designed for cabinet mounting. These have an 18" capillary from the valve to the sensing bulb and a 48" capillary between the bulb and the remote temperature adjustment knob. The snap-throttle type controls are factory-set to snap on at 50% of the appliance capacity. From this 50% rate, the control will modulate up to full input rate if the demand for heat is great enough (as sensed by the remote bulb). As the temperature increase is sensed by the remote bulb, the control throttles the input back down to the minimum rate and when the temperature requirement is satisfied, the control snaps "off". These controls combine a manual valve (gas cock), an automatic pilot safety valve, pressure regulator (optional by model) and a snap-acting or snap-throttle hydraulic operator for total temperature control. All models feature 3-position main gas outlets and pilot outlet, pilot gas filter, pilot adjustment key and automatic pilot valve. The automatic pilot valve is separate from the gas cock and provides gas shutoff in case of pilot outage.

Robertshaw

Part No.	Pressure Regulator (in. WC)	Capacity (BTUH)	FPT (In.)	3-Position Outlet (In.)	Capillary Length
700204[1]	None	160,000	1/2 Inlet	1/2	3'
700205*	3.5, Natural	100,000	1/2 Inlet	1/2	3'

1 Separate regulator may be required.



V800A1476

CONTINUOUS PILOT

Provides complete control of continuous pilot gas-fired central furnaces and boilers.

- Includes pilot flow adjustment screw
- Easy to install, adjust and service
- Includes reducer bushings to adapt line size

resideo

Part No.	Application	Size (In.)	Capacity (CFH)	Gas	Includes
V800A1476	24V, Use with 30mV Thermocouple	1/2 x 3/4	250	Natural	A manual gas valve, Safety shutoff, Single millivoltage automatic operator, Pressure regulator, Pilot gas filter and flow adjustment, Pressure tapping, Tthermocouple connector
VS820A1047	Self Powered, Use with 750mV Thermopile	1/2 x 3/4	250	Natural	One 3/4 x 1/2 Reducer Bushing, One 1/2 in x 3/8 in Reducer Bushing



VR4300A4502

CONTINUOUS PILOT, LINE VOLTAGE

Combination gas control for use in 120 Vac, gas-fired, standing pilot appliances with capacities from 30 to 300 cfh.

- Control includes safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment
- Solenoid operated first automatic valve opens on thermostat call for heat; closes when call for heat ends. Diaphragm-operated second automatic valve opens under control of regulator; closes if gas or power supply is interrupted.
- Standard regulator
- Combination dual automatic valve
- Power: 120 Vac

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator	Includes
VR4300A4502	3/4 x 3/4	200	Natural	Standard	Two 3/4 x 1/2 in Reducer Bushings, 393691 Natural to LP Gas Conversion Kit, One 1/2 in x 3/8 in Reducer Bushing

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VALVE, COMBINATION


VR8200A2124

CONTINUOUS PILOT, LOW VOLTAGE, VR8200 SERIES

Combination gas controls for use in 24 Vac, gas-fired, standing pilot appliances with capacities from 20 to 200 cfh.

- Controls include manual valve, two automatic operators, servo pressure regulator and pilot adjustment
- Includes reducer bushings
- Combination dual automatic valve
- Power: 24 Vac

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator	Includes
VR8200A2124	1/2 x 1/2	130	Natural	Standard	One 3/4"" straight flange; One 1/2"" x 3/8"" reducer bushing; Q340 Thermocouple; Natural to LP conversion kit
VR8200A2132	1/2 x 1/2	130	Natural	Standard	Natural to LP Conversion Kit; One 1/2"" x 3/8"" reducer bushing; One 3/4"" straight flange, One 3/4"" straight flange; One 1/2"" x 3/8"" reducer bushing; Natural to LP conversion kit
VR8200H1251	1/2 x 1/2	130	Natural	Slow Open	One 3/4"" straight flange; One 1/2"" x 3/8"" reducer bushings; Natural to LP Conversion Kit


VR8300A3500

CONTINUOUS PILOT, LOW VOLTAGE, VR8300 SERIES

Combination gas controls for use in 24 Vac, gas-fired, standing pilot appliances with capacities from 30 to 300 cfh.

- Controls include safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment
- Combination dual automatic valve
- Includes reducer bushings
- Power: 24 Vac

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator	Includes
VR8300A3500	1/2 x 3/4	190	Natural	Standard	Natural to LP Conversion Kit; One 34/"" x 1/2"" reducer bushing
VR8300A3518[1]	1/2 x 3/4	190	Natural	Standard	reducer bushings, conversion kit
VR8300A4508	3/4 x 3/4	200	Natural	Standard	Natural to LP conversion kit; Two 3/4"" x 1/2"" reducer bushings
VR8300A4516[1]	3/4 x 3/4	200	Natural	Standard	Two 3/4 in x 1/2 in Reducer BHushing, 393200 ECO Adapter, Q340 (36 in) Thermocouple with Adapters, 393691 Natural to LP Gas Conversion Kit
VR8300C4506	3/4 x 3/4	200	Natural	Step Open	Two 3/4"" x 1/2"" reducer bushings

1 Includes 36" thermocouple, ECO adapter


36C03300

CONTINUOUS PILOT

Ideal for general purpose replacement, these 36C combination gas valves are furnished with natural to LP conversion kit, reducer bushings and self-adhesive label with pilot lighting instructions.

- Valve may be mounted in any position, except upside down
- Both main valve seat and line-interrupter seal with line pressure, assuring positive gas seal-off
- Reducer bushings provided
- Natural gas

EMERSON

	Connection Size (In.)					
Part No.	Inlet	Outlet	Capacity AGA (Btuh)	Voltage	LP Conversion Kit	Side Taps
36C03300	1/2	3/4	230000	24	No	No
36C03333	1/2	3/4	230000	24	Yes	Yes
36C03400	3/4	3/4	280000	24	No	No
36C03433	3/4	3/4	280000	24	Yes	Yes
36C03U333	1/2	3/4	230000	750mV	Yes	Yes
36C03U433	3/4	3/4	280000	750mV	Yes	Yes

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


36C53418

CONTINUOUS PILOT, SLOW OPENING

Model 36C53 complete gas control combines into a single compact package that functions as a 3-position gas cock, pressure regulator, 100% shut-off automated pilot and main operator. This model features a slow opening main valve that provides a softer ignition.

- Usage: natural gas - regulator setting 3.5" WC
- Order LP conversion set separately
- ECO terminal included

EMERSON

	Connection Size (In.)			
Part No.	Inlet	Outlet	Capacity AGA (Btuh)	Coil Voltage
36C53418	3/4	3/4	280000	24 Vac


700400

CONTINUOUS PILOT, MANUAL, LOW VOLTAGE

These valves feature a manual valve (gas cock), an automatic pilot safety valve, inlet/outlet screens, pilot outlet, pilot gas filter and pilot adjustment key. The automatic pilot safety valve is separate from the gas cock and provides gas shutoff in case of pilot outage. The 700 Series 24 volt Uni-Kits® have a pressure regulator installed that is set for natural gas (3.5" W.C.). To convert to L.P. gas, a regulator cover plate is included. Simply remove pressure regulator and install the regular cover plate.

Note: Valves can be mounted in any position except upside down.

- Reducer bushings included

Robertshaw

	Connection Size (In.)				
Part No.	Inlet	Outlet	Side (In.)	Pressure Regulator (in. WC)	Capacity (BTUH)
700400	1/2	3/4	Straight-Thru	Uni-Kit	240,000
700406	3/4	3/4	Straight-Thru	Uni-Kit	300,000
700426	3/4	3/4	Straight-Thru	3.5, Natural	300,000
700442	1	1	Straight-Thru	3.5, Natural	600,000
700402	1/2	3/4	Straight-Thru	Uni-Kit	240,000


700452

CONTINUOUS PILOT, LINE VOLTAGE

The 700 line voltage combination gas controls are available in 120 Vac models. These controls combine into one compact valve: a manual gas cock, automatic pilot safety valve and a silent line voltage operator. Regulated and nonregulated models are available. Standard features include: pilot outlet, pilot gas filter and pilot adjusting key. The automatic pilot valve is separate from the gas cock and provides gas shutoff in case of pilot outage. Note: Valves can be mounted in any position except upside down.

Robertshaw

	Connection Size (In.)				
Part No.	Inlet	Outlet	Side (In.)	Pressure Regulator (in. WC)	Capacity (BTUH)
700452	1/2	3/4	1/2	3.5, Natural	240,000
700454	3/4	3/4	Straight-Thru	3.5, Natural	300,000
700456[1]	1	1	Straight-Thru	3.5, Natural	600,000

1 Separate pressure regulator may be required. Slow opening feature for soft ignition.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, COMBINATION


700422

CONTINUOUS PILOT, DIAPHRAGM VALVE

Diaphragm/solenoid valves are single function, diaphragm types and are excellent replacements for solenoid gas valves. Standard features include: pilot outlet, pilot gas filter and pilot adjustment key.

Notes: Valves can be mounted in any position except upside down. These valves do not have a safety magnet.

- Power supply: 24 Vac

	Connection Size (In.)				
Part No.	Inlet	Outlet	Side (In.)	Pressure Regulator (in. WC)	Capacity (BTUH)
700422	1/2	3/4	1/2	3.5, Natural	240,000


700502

CONTINUOUS PILOT, MILLIVOLT, WALL THERMOSTAT ACTIVATED

The 700 millivolt gas valves are wall thermostat actuated combination gas valves. These controls combine a manual gas cock, automatic pilot safety valve and a millivolt operator. The automatic pilot safety is separate from the gas cock and provides gas shutoff in case of pilot outage. Standard features include: pilot outlet, pilot gas filter and pilot adjusting key.

Note: Valves can be mounted in any position except upside down.

- Power supply: 250-750 mV
- Reducer bushings included

	Connection Size (In.)				
Part No.	Inlet	Outlet	Side (In.)	Pressure Regulator (in. WC)	Capacity (BTUH)
700502	1/2	1/2	1/2	3.5, Natural	100,000
700504	1/2	3/4	1/2	3.5, Natural	240,000
700506	3/4	3/4	Straight-Thru	3.5, Natural	300,000
700522[1]	1	1	Straight-Thru	3.5, Natural	720,000

1 Slow opening feature for soft ignition, no reducer bushings


710402

CONTINUOUS PILOT, LOW PROFILE

The 710 low capacity gas heating valves are designed for recreational vehicles and other applications with limited space. All models include a manual valve (gas cock), automatic pilot safety valve, pilot outlet, pilot gas filter and pilot adjusting key. Note: The control can be mounted in any position except upside down and all models have 3-position outlets.

- Supplied with pipe bushings

Part No.	Pressure Regulator (in. WC)
710402	3.5, Natural
710501[1]	None
710502	3.5, Natural

1 Separate pressure regulator may be required

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


720400

CONTINUOUS PILOT, DUAL VALVE

The 720 Series gas controls are designed for a wide variety of heating applications and can be used to replace most constant pilot valves, including dual valve (six function) models. The 720 Series constant pilot gas valve is a six function valve incorporating a manual valve, safety shutoff magnet, dual automatic valves, main gas regulator, and pilot adjustment. Uni-Kits® are factory-set at 3.5" W.C. for natural gas, but can be converted to LP by installing the regulator conversion kit included. The 720 Series feature an integral manual selector used to select from the 4 gas flow positions—off, on, pilot and set. The set position provides pilot only gas flow during magnet energizing and lock up. Built-in stops serve to prevent accidental setting to the off position.

- Regulates to 15,000 BTU minimum, 200,000 BTU maximum, for natural gas
- Capacity: 150,000 BTUH
- Reducer bushings included

Robertshaw

	Connection Size (In.)			
Part No.	**Inlet**	**Outlet**	**Side (In.)**	**Capacity (BTUH)**
720400*[1]	1/2	3/4	Straight-Thru	150,000
720402*[2]	1/2	3/4	1/2	150,000
720406*[2]	3/4	3/4	Straight-Thru	150,000
720472*[3]	1/2	1/2	1/2	150,000
720474*	1/2	1/2	1/2	150,000

1 Uni-Kit® regulator conversion included 2 Uni-Kit® regulator conversion included 3 Convertible regulator, designed for mobile home use


VR8204A2076

INTERMITTENT PILOT, LOW VOLTAGE, VR8204 SERIES

Combination gas controls for use in 24 Vac, gas-fired, intermittent pilot appliances with capacities from 20 to 200 cfh.

- Controls include manual valve, two automatic operators, servo pressure regulator and pilot adjustment
- Combination dual automatic valve
- Includes reducer bushings, natural to LP conversion kit
- Power: 24 Vac

resideo

Part No.	Size (In.)	Ambient Temperature	Pressure Regulator (in. WC)	Gas	Regulator
VR8204A2076	1/2 x 1/2	0 to 175°F	3.5	Natural	Standard
VR8204C1019	1/2 x 1/2	0 to 175°F	0.9 Step	Natural	Step Opening
VR8204H1006	1/2 x 1/2	0 to 175°F	3.5	Natural	Slow Opening
VR8204M1091	1/2 x 1/2	-40 to 175°F	3.5	Natural	Standard


VR8304M4507

INTERMITTENT PILOT, LOW VOLTAGE, VR8304 SERIES

Combination gas control for use in 24 Vac, gas-fired, intermittent pilot appliances with capacities from 30 to 415 cfh.

- Controls include safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment
- Combination dual automatic valve
- Power: 24 Vac

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator
VR8304M4507	3/4 x 3/4	300	Natural	Standard
VR8304P4330	3/4 x 3/4	-	LP	Step Open
VR8304P4504	3/4 x 3/4	300	Natural	Step Open
VR8304Q4511	3/4 x 3/4	-	Natural	Slow Open

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, COMBINATION


VR4304M4519

INTERMITTENT PILOT, LINE VOLTAGE, VR4304 SERIES

- Controls include safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment.
- Use with S86F,H; S860D; S8600F,H; S8610 and S90A,B Control Modules.
- Solenoid operated first automatic valve opens on thermostat call for heat; closes when call for heat ends. Diaphragm-operated second automatic valve opens under control of regulator; closes if gas or power supply is interrupted.
- Standard and slow opening natural gas models include natural to LP gas conversion kit; LP to natural gas conversion kit also available.
- All adjustments, wiring connections and pilot outlet are accessible from top of control.
- Adjustable servo regulator effectively maintains almost constant gas output pressure under wide fluctuations in gas supply pressure.
- Compatible with ECO connector.
- ON-OFF lighting sequence.

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator
VR4304M4519	3/4 x 3/4	415	Natural	Standard


VR8345M4302

INTERMITTENT, PROVEN PILOT, UNIVERSAL, LOW VOLTAGE

Universal electronic ignition combination gas control for use with direct spark ignition, hot surface ignition or intermittent pilot ignition in 24 Vac, gas-fired appliances with capacities from 30 to 415 cfh.

- Control includes manual valve, two automatic operators, servo pressure regulator, pilot adjustment, pilot plug and ignition adapter
- Replaces virtually any IP, HSI, or DSI gas control
- For use with natural or manufactured gas or LP gas. Includes converter kit to adapt from natural to LP gas
- Includes reducer bushings
- Power: 24 Vac

resideo

Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator
VR8345M4302	3/4 x 3/4	300	Natural	Standard


SV9501M2528

SMARTVALVE™, SV9501 SERIES

The Intermittent Hot Surface Pilot Ignition SmartValve™ System Controls provide easy field replacement of a wide range of SV9500, SV9501, SV9502 and SV9602 SmartValve™ System models. These controls provide intermittent pilot gas ignition sequencing, pilot flame sensing, and both pilot and main gas control functions in a single control. They are directly compatible with the Q3450 or Q3480

Intermittent Pilot burners used with the original controls on the appliance.

Suitable for a wide range of gas-fired appliances including residential furnaces, roof-top furnaces, residential boilers, unit heaters, infrared heaters, space heaters and commercial cooking units. Ignition sequence includes timed trial for ignition.

- SV9501M8129 includes 395454 extension harness and 393691 NAT to LP conversion kit

resideo

						Connection Size (In.)	
Part No.	Pressure Regulator (in. WC)	Size (In.)	Capacity (CFH)	Gas	Regulator	Inlet	Outlet
SV9501M2528	3.5	1/2 NPT x 1/2 NPT	200	Natural	Fast Open	1/2 NPT	1/2 NPT
SV9501M8129	3.4	1/2 NPT x 1/2 NPT	200	Natural	Standard	1/2 NPT	1/2 NPT

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


SV9601M4571

SMARTVALVE™, SV9601 SERIES

The SV9601 SmartValve System Controls combines gas flow control and electronic intermittent pilot sequencing functions into a single unit. This system is suitable for application in a wide range of gas-fired appliances including furnaces, rooftop furnaces, boilers, unit heaters, infrared heaters, space heaters, water heaters, decorative appliances, and commercial cooking units.

Suitable for a wide range of gas-fired appliances including residential furnaces, roof-top furnaces, residential boilers, unit heaters, infrared heaters, space heaters and commercial cooking units. Ignition sequence includes timed trial for ignition. Includes: Two 3/4" x 1/2" reducer bushings and an LP conversion kit.

resideo

						Connection Size (In.)	
Part No.	Pressure Regulator (in. WC)	Size (In.)	Capacity (CFH)	Gas	Regulator	Inlet	Outlet
SV9601M4571	3.5	3/4 NPT x 3/4 NPT	415	Natural	Standard	3/4 NPT	3/4 NPT


SV9641M4510

SMARTVALVE™, SV9641 SERIES

The SV9641 SmartValve ignition system control provides all gas ignition safety functions by controlling gas flow, ignition source, and a 120 Vac or 240 Vac combustion air blower. It also monitors the appliance airflow proving switch and limit string to assure proper appliance operation, and provides prepurge, postpurge, and timed trial for pilot ignition with 100 percent shutoff and continuous retry. A diagnostic LED indicates system status.

resideo

Part No.	Size (In.)	Capacity (CFH)	Pressure Regulator (in. WC)	Gas	Regulator
SV9641M4510	1/2 NPT x 1/2 NPT	200	3.2	Natural	Standard


700056

INTERMITTENT, PROVEN PILOT, HS/DS, UNIVERSAL, LOW VOLTAGE

Robertshaw

	Connection Size (In.)			
Part No.	Inlet	Outlet	Pressure Regulator (in. WC)	Capacity (BTUH)
700056	3/4	3/4	3.5, Natural	350,000
700059	1	1	4.0, Natural	720,000


700053

INTERMITTENT, PROVEN PILOT, HS/DS, UNIVERSAL, LOW VOLTAGE, 2 STAGE

Robertshaw

	Connection Size (In.)			
Part No.	Inlet	Outlet	Pressure Regulator (in. WC)	Capacity (BTUH)
700053*	3/4	3/4	1.3 - 3.5	300,000

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, COMBINATION



720050

INTERMITTENT, PROVEN PILOT, HS/DS

The 720 Series gas controls are designed for electronic ignition applications: hot surface, direct spark and intermittent pilot. The 720 Series incorporates a manual valve, 2 dual automatic valves and a main gas pressure regulator. Uni-Kits® are factory-set at 3.5" W.C. for natural gas, but can be converted to LP by installing the regulator conversion kit included.

- Power supply: 24 Vac
- Uni-Kit® regulator conversion included

Robertshaw

	Connection Size (In.)			
Part No.	Inlet	Outlet	Side	Comments
720050[1]	1/2	1/2	Straight-Thru	Slow Opening
720051	1/2	3/4	1/2	Standard
720079[2]	1/2	3/4	1/2	Universal

1 Has Pilot Outlet 2 Has Pilot Valve



36C84912

CYCLE PILOT

Cycle pilot gas valves are equipped with redundant pilot solenoid main gas regulator, integral gas pressure switch and electrical connection on the gas valve for mercury flame sensor connection.

- Connections: 3/4" x 3/4"
- AGA Capacity: 280,000 BTUH
- Regulator setting: 3.5" W.C Natural gas
- Reducer bushing kit included
- Coil voltage: 24 Vac

EMERSON

Part No.	Electrical Connection	Flame Sensor Socket Location	LP Conversion Kit
36C84912	4 Spade Terminals, 1/4", CCLS	Side	Included
36C84921	4 Spade Terminals, 1/4", CCLS	Top	Included
36C84923	4 Spade Terminals, 1/4", CCLS	-	Natural Only
36C84926	Edge Connector to P.C. Board	Side	Natural Only
36C84945	3 Spade Terminals, 1 PIN Terminal	None	Included



36H32304

PROVEN, MULTIFUNCTION

Compact multifunction valve designed to meet the requirements for use with all types of intermittent ignition systems (proven pilot, direct spark ignition and hot surface ignition).

- Connections: 1/2" x 3/4"
- Regulator adjustment: 2.5 to 5.0" W.C natural gas, 7.5 to 12.0" W.C L.P.
- Coil voltage: 24 Vac

EMERSON

Part No.	Electrical Connection	Use with	Side Taps
36H32304	N/A	Proven Pilot HSI, DSI, Fast Open, Nat/LP	Yes
36C94303	5 Spade	Proven Pilot with Pressure Switch, Slow Open, Nat only	No

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


36H64463

PROVEN PILOT, 2 STAGE

Designed for use on automatic spark ignition systems. Fast open operation

- High/Low feature to permit two different rates of input to the main burner
- Natural/LP; conversion kit included
- Regulator settings : LO - 1.0" W.C.(adj 1 to 3.5"), HI - 3.5" W.C.(adj 2.5 to 5")
- Bushing kit included

EMERSON

	Connection Size (In.)		
Part No.	Inlet	Outlet	Coil Voltage
36H64463	3/4	3/4	24 Vac


36J24214

PROVEN PILOT, HS/DS, LOW VOLTAGE, SINGLE STAGE

Designed for direct spark ignition and hot surface ignition system applications.
This valve is equipped with redundant and main solenoid valves that control gas flow to the main burners, a pressure regulator and a two-position on/off switch for regulation and electrical shut-off of the solenoid valves.

- Regulator calibrated to 3.5 ± 0.3" WC 100,000 BTUH.
- Natural gas/LP conversion kit
- Inlet/outlet reducer bushings (1/2 NPT x 3/8 NPT)

EMERSON

	Connection Size (In.)		
Part No.	Inlet	Outlet	Capacity AGA (Btuh)
36J24214	1/2	1/2	140000


VR8205A2024

PROVEN PILOT, HS/DS, LOW VOLTAGE, VR8205 SERIES

Combination gas controls for use with hot surface/direct spark systems in 24 Vac, gas-fired appliances with capacities from 20 to 200 cfh.

- Controls include manual valve, two automatic operators and servo pressure regulator
- Combination dual automatic valve
- Includes reducer bushings, natural to LP conversion kit
- Power: 24 Vac

resideo

					Connection Size (In.)	
Part No.	Size (In.)	Capacity (CFH)	Gas	Regulator	Inlet	Outlet
VR8205A2024	1/2 x 1/2	150	Natural	Standard	1/2	1/2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, COMBINATION


VR8305M3506

PROVEN PILOT, HS/DS, LOW VOLTAGE, VR8305 SERIES

Combination gas control for use with hot surface/direct spark systems in 24 Vac, gas-fired appliances with capacities from 30 to 415 cfh.

- Controls include manual valve, two automatic operators, and pressure regulator
- Combination dual automatic valve
- Standard Regulator
- Includes bushing, natural to LP conversion
- Power: 24 Vac

resideo

					Connection Size (In.)	
Part No.	Pressure Regulator (in. WC)	Size (In.)	Gas	Regulator	Inlet	Outlet
VR8305M3506	3.5	1/2 x 3/4	Natural	Standard	1/2	3/4
VR8305Q4500[1]	1.7 Low, 3.5 High	3/4 x 3/4	Natural	Standard	3/4	3/4

1 2-stage valve


36H32423

PROVEN PILOT, HS/DS, UNIVERSAL

Provides electrically operated pilot solenoid which is controlled by room thermostat. Main valve is energized by a mechanical flame sensor or electronic ignition/flame detecting module.

- For hot surface, direct spark
- Usage: natural gas
- LP conversion kit order separately, provide for 100% lockout
- Capacity (BTU/H): 300,000 (1" PD, .64 specific gravity — 1,000 BTU/Cu. Ft.)
- Pipe size: 3/4" x 3/4"
- Coil voltage: 24 Vac

EMERSON

	Connection Size (In.)			
Part No.	Inlet	Outlet	Opening Characteristic	Stages
36H32423	3/4	3/4	Fast	1
36H33412	3/4	3/4	Slow	1
36H65401	3/4	3/4	Slow	2


V4943A1011

COMMERCIAL

- Suitable for use on atmospheric boilers, commercial water heaters, and rooftop heaters.
- Solenoid-operated valves for use with natural gas (and LP gas for V4943A only)
- Valve body of die-cast aluminum with a straight through pattern
- V4943 for use with line voltage, on/off controllers
- V4944 for use with line voltage, dual stage controllers
- Pressure regulator: 3.5 w.c.
- Dimensions: 6 9/16" H x 6" W x 6" D
- Pipe size: 1"
- Voltage: 120 Vac

Honeywell

Part No.	Description	Capacity (CFH)	Gas	Valve Opening Time (Sec)
V4943A1011	On/Off Diaphragm Valve	1000	Natural of LP Gas	6
V4943B1019	Single Stage Pressure Regulating	300 to 1000	Natural	3 to 25
V4944N1011	Two Stage Pressure Regulating	300 to 1000	Natural	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


700804

COMMERCIAL

Bleed gas diaphragm valves feature: automatic pilot valve, bleed gas operator, inlet and outlet screens, manual gas cock valve, pilot adjusting key, pilot gas filter and pressure regulator.
Regulated models offer the additional feature of straight line pressure regulation, allowing application of the 700 diaphragm gas valves to a wide range of capacity requirements without regulator readjustment. Minimum application for regulated models is 10% of capacity shown.
These valves are most commonly used on commercial water heating equipment in conjunction with the 1352 (CWH-3) bleed gas temperature controllers.

- Valve has as slow opening feature
- Reducer bushings included

	Connection Size (In.)			
Part No.	**Inlet**	**Outlet**	**Pressure Regulator (in. WC)**	**Capacity (BTUH)**
700804	3/4	3/4	3.5, Natural	305,000


710203

HYDRAULIC LOW PROFILE

- Supplied with pipe bushings

Part No.	**Pressure Regulator (in. WC)**	**Capillary Length**
710203[1]	None	3′
710205	3.5, Natural	3′

1 Separate regulator may be required.


Y99AP1

VALVE CONNECTION BUSHING

The Y99 valve connection reducer kit allows easy conversion of any valve or regulator pipe connections in the field. The kit does not alter the overall face-to-face dimensions. The kit contains an anti-galling compound, wrench, and four male and female bushings.

Part No.	**Description**
Y99AP1	1/2″ MPT x 3/8″ FPT Bushing
Y99AP2	3/4″ MPT x 1/2″ FPT Bushing

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GAS VALVE ACCESSORIES


705452

VALVE OPERATOR, LINE VOLTAGE

The 705 Series line voltage operator kit is designed to allow field conversion of the 700 and 710 Series manual gas valves to wall thermostat control. These operators are also replacements for specific 700-450 Series and 700-460 Series gas valves.

Robertshaw

Part No.	Voltage
705452	120


1751003

ADD-ON, PRESSURE REGULATOR KIT

The 1751 Series add-on pressure regulator kits are available for the indicated valves.

- 700 Series hydraulic cannot be converted

Robertshaw

Part No.	Adjustment Range (psi)	Gas Type	Valve Usage (Series)
1751003	3 - 7	Natural	700, 710
1751013	8 - 12	L.P.	700, 710
1751016	8 - 12	L.P.	7100, 720
1751007	-	Cover Plate	700, 710

GAS PILOT


Q314U1001

UNIVERSAL PILOT BURNER

With four pilots, contractors can replace over 100 different models. The Universal Pilot offers adjustable mounting options, flexible hood orientations and the accessories needed for replacement.

- Natural or LP gas.

resideo

Part No.	Description	Gas	Replaces
Q314U1001	Standing Pilot Burner. Non-Primary Aeration, BCR-18, BBR-10, CAR-12, CAR-13, BBR-8 Orifices, Standard and low BTU hoods, Adjustable Tip Style, Universal Mounting Bracket	Natural, LP	Q314A, Q350A
Q345U1005	Target Style Pilot Burner. Non-Primary Aeration, BCR-20, BCR-18, BBR-12, BBR-11 Orifices, Adjustable Tip Style, Universal Mounting Bracket	Natural, LP	Q345A
Q3451U1000	Target Style Pilot Burner with Integral Ignition Wire. Non-Primary Aeration, BCR-20, BCR-18, BBR-12, BBR-11, BCR-10 Orifices, Adjustable Tip Style, Universal Mounting Bracket, 36" and 55" igniter lead lengths	Natural, LP	Q3451B/K
Q348U1009	Intermittent Batwing Style Pilot Burner. Primary Aeration, NE22, KF24, A26, KR14 Orifices, Universal Mounting Bracket	Natural, LP	Q348A

Continued on next page


Q314A3547

PILOT BURNER, Q314 SERIES

Non primary-aerated, insert orifice-type pilot burner for main burner ignition with Q340 or Q390 thermocouple for pilotstat safety control operation.

- Use with Q313 for 750 mV powerpile application

resideo

Part No.	Tip Style	Gas	Bracket
Q314A3547	A	Natural	Side
Q314A4586	B	Natural, LP	End
Q314A6094	A	Natural, LP	End
Q314A6102	C	Natural, LP	End


Q345A1305

IGNITER/SENSOR

Non primary-aerated combination pilot burner and igniter. Used with the S86, S860, S8610 or S8670 in intermittent pilot systems.

resideo

Part No.	Tip Style	Gas	Bracket
Q345A1305	B	Natural	End
Q345A1313	A	Natural	End
Q345A1321	C	Natural	End


Q327A1626

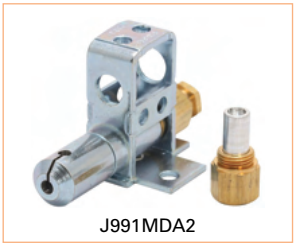
PILOT BURNER, Q327 SERIES

Primary-aerated, spud orifice-type pilotburner for main burner ignition with Q340 or Q390 thermocouple for pilotstat safety control operation.

resideo

Part No.	Gas	Bracket
Q327A1626	Natural, LP	End

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


J991MDA2

PILOT BURNER

Universal replacement models replace J12, J13 pilots.

- A dimension: .850"

BASO Gas Products LLC

Part No.	Figure
J991MDA2	1
J992MDA2	2
J993MDA2	3
J994MDA2	4
J995MDA2	5
J996MDA2	6
J997MDA2	7
J998MDA2	8
J999MDA2	9


J999MHA2

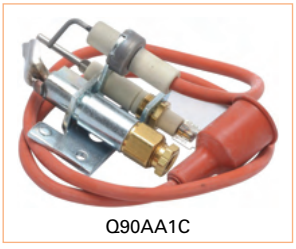
UNIVERSAL REPLACEMENT

The J Series BASO universal replacement pilot burners are supplied in three models. Mounting brackets on all four sides of each burner permit adaptation to almost any application.

- Natural and LP gas orifice supplied

BASO Gas Products LLC

Part No.	Pilot Type	Figure
J999MHA2	L Channel	1
J999MKA2	Shell	2
J999MYA2	Y Channel	3


Q90AA1C

Q15 MISER

Replaces pilot burner and sensor probe on specific OEM units in Q15 miser gas control system.

BASO Gas Products LLC

Part No.	Code	OEM
Q90AA1C	J989EKW	Lennox
Q90BB1	J996DKW	Carrier
Q90CC1	J986HXW	Reznor
Q90DD1	J993HHW	Reznor


1820009

PG9 THERMOPILE

Designed to replace those hard-to-find ITT-General PG9 type pilots. Each Uni-Kit comes with a natural gas orifice installed and a separate L.P. gas orifice. A special 1/4" tubing adaptor is provided to allow use of original tubing with nut and ball sleeve.

These 1820 Pilot Uni-Kits are aerated type pilots, combining the best feature of an incinerator type pilot and a target type pilot.

- Includes thermopile

Robertshaw

Part No.	Replaces	Flame Pattern
1820009*	PG9A42JTL020	90° Right
1820019	PG9A41JTL020	90° Left


1830001

INCINERATOR TARGET

Designed to be used with all Uni-Line and competitive thermocouples, these kits include an adaptor that converts a threaded thermocouple/thermopile model 2CH to a snap-in thermocouple type, model 2C.

These are aerated type pilots, combining the best feature of an incinerator type pilot and a target type pilot. These pilots have non-linting characteristics, and no air shutters or supplementary shields requiring assembly or adjustment.

Robertshaw

Part No.	Replaces	Flame Pattern
1830001	2CH-6	Standard
1830005	4CH-6	3-Way
1830110*	2CH-1	Standard
1830111	2CHL-1	25° Left
1830112*	2CHR-1	25° Right

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GAS PILOT

GAS ORIFICE


10021

Robertshaw

Part No.	Gas	Used with Pilot Burners	Tube Length
10021	Natural	2C, 2CH	1/4"
10114	L.P.	2C, 2CH	1/4"


81LB4

Part No.	Description
81LB4	Pilot Tubing Nut, 1/4"


Y99AR1

BASO Gas Products LLC

Part No.	Description
Y99AR1	1/4 O.D. x 60" Aluminum Tube


11193

Robertshaw

Part No.	Description
11193	Pilot Tubing, Aluminum, 1/4" OD x 50'
11291	Pilot Tubing, Aluminum, 1/8" OD x 5'

THERMOCOUPLE

UNIVERSAL


Q340A1066

Universal 30 mV thermocouple.

- Average operating life of 10 years

resideo

Part No.	Lead Length	Length (In.)
Q340A1066	18"	4.50
Q340A1074	24"	4.60
Q340A1082	30"	4.70
Q340A1090	36"	4.50
Q340A1108	48"	4.60

2 PIECE


Q390A1046

For use on gas-fired heating systems as an alternative to Q340 with Universal two-piece adapter.

- Average operating life of 5-7 years

resideo

Part No.	Lead Length	Length (In.)
Q390A1046	24"	0.00
Q390A1053	30"	4.50
Q390A1061	36"	0.00

THERMOPILE


Q313A1022

Provides power for a millivoltage, self-powered control system.

- Open circuit output: 600-750 mV
- Use with Q314, Q324, Q327, Q377, Q379, Q382 pilot burners

resideo

Part No.	Lead Length	Includes
Q313A1022	35"	Spade Terminals , 35 in Leads, Attaching Nut
Q313A1055	47"	Spade Terminals , 47 in Leads, Attaching Nut
Q313A1139	35"	Push-in Clip, 35 in Lead
Q313A1170	35"	Push-in clip, PG9 adapter, Attaching Nut
Q313A1188	35"	Push-in clip, split nut, and adapter assembly
Q313B1005	35"	Terminal Block

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


K16BT18

HIGH PERFORMANCE

The Husky high performance K16 Series are heavy duty high performance thermocouples that provide high output.

- Millivoltage range: 25-35 mV
- The K16WT are universal replacements, multi-mount

BASO Gas Products LLC

Part No.	Length (In.)	Carton Qty
K16BT18	18.00	10
K16BT24	24.00	10
K16BT30	30.00	10
K16BT36	36.00	10
K16RA48C	48.00	5
K16RA72C	72.00	5
K16WT48	48.00	5
K16WT60	60.00	5
K16WT72	72.00	5


K19AT18

UNIVERSAL

Super Slim Jim universal K19AT thermocouples are designed for use with all Series G and H BASO valves, Basoids, and Basotrols with automatic pilot valves. The K19 is also interchangeable with thermocouples used with automatic pilot valves made by other control manufacturers whose power unit connector is similar to the BASO Series.

BASO Gas Products LLC

Part No.	Length (In.)	Carton Qty
K19AT18	18.00	10
K19AT24	24.00	10
K19AT30	30.00	10
K19AT36	36.00	10
K19AT48	48.00	5
K19AT60	60.00	5
K19AT72	72.00	5


1980018

SNAP-FIT®

The 1980 Series snap-fit thermocouples offer easy installation into the majority of pilot burners.

Robertshaw

Part No.	Length (In.)
1980018*	18.00
1980024*	24.00
1980036*	36.00
1980048*	48.00
1980030*	30.00


1950001

THERMOPILE

Designed for use on self-powered gas and control systems. Can be used to replace all Robertshaw and similar competitive devices.

Robertshaw

Part No.	Lead Length	Connection Type
1950001[1]	36″	Two Lead
1950532	36″	Two Lead
1951001[1]	36″	Coaxial
1951536	36″	Coaxial

1 Includes PG9 pilot adapter


Y99AN1

ADAPTER

The Y99AN1 junction block adapter will fit any Baso thermocouple lead for conversion to a junction block application.

BASO Gas Products LLC

Part No.	Length (In.)	Description
Y99AN1	5.50	Junction Block Adapter

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MERCURY FLAME SENSOR



3049115

The mercury flame sensor is a mechanical device that proves the existence of an acceptable pilot flame. It converts the heat of a pilot flame to motion which is used to open and close a set of electrical contacts. When the bulb is heated by a pilot flame, the mercury is vaporized causing pressure in the capillary and diaphragm. Movement of the diaphragm causes the snap-switch to open one set of contacts and close a second set. These contacts control the pilot valve and the main valve.

EMERSON

Part No.	Bulb Style	Element Length
3049115	20	48″
3098134	19	48″
3098156	20	48″

GLOW COIL

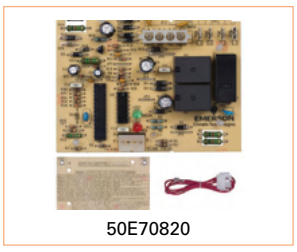


Y80AA48

Y80 Series glow coils are designed for use with G19, G21, and G29 ignition systems. They are used as replacements on existing pilot burners.

BASO Gas Products LLC

Part No.	Lead Length	Used with Pilot Burners
Y80AA48	48″	J(-)DHD, J(-)DLD, J(-)EKD, J(-)GHD, J(-)VHD
Y80EA36	36″	J(-)HHD



50E70820

TRANE HOT SURFACE MODULE, NON-INTEGRATED

EMERSON

Part No.	Description	Prepurge Time (Sec.)	Post Purge (Sec.)	Supply Voltage
50E70820	Trane non-integrated HSI ignition module kit. Auto reset time: 60 min, ignitor warm-up: 45 sec.	0	0	120



50N02A820

TRANE DIRECT SPARK IGNITION MODULE, INTEGRATED

EMERSON

Part No.	Description	Prepurge Time (Sec.)
50N02A820	Trane integrated DSI ignition module kit. Auto reset time: 60 min. Cool delay to fan off: 0/80	20
50N02B820	Trane integrated DSI ignition module kit. Auto reset time: 60 min. Cool delay to fan off: 0/45	20



780783

HOT SURFACE MODULE

The 780 Series hot surface ignition modules are designed for use on gas fired heating systems. The system acts on a demand for heat by a switch or thermostat to supply power to the ignition control. On non-prepurge models, the ignitor will be energized immediately and remain on for either of two optional selected ignitor heat up times (approximately 17 or 34 seconds). For models with the prepurge option, there is a time delay equal to the heat up time selected before the ignitor is energized. At the end of the ignitor heat up time the gas valve is opened supplying gas to the main burner. After several seconds, the ignitor is turned off and the sensor is energized.
The 780 Series provides lockout and complete gas shutoff if ignition is not proven after the trial for ignition sequences has been completed.

Robertshaw

Part No.	Supply Voltage	Timer Type	Ignition Attempts (before lockout)	Valve Trial Time (Sec.)
780783	120	Prepurge, 34 Sec.	3	8
780785	120	Ignitor Warm-up, 34 Sec.	3	6
780790	120	Ignitor Warm-up, 17 Sec.	1	4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



S8910U3000

HOT SURFACE MODULE, UNIVERSAL

- Replaces over 800 White-Rodgers, Robertshaw and Honeywell hot surface ignition models
- For 120 Vac (up to 5.0A) surface igniter (Norton 201/271 or equivalent).
- Features LED status indicator and microammeter ports for easy trouble shooting
- For local (single rod) or remote (dual rod) rectification type flame sensing.
- Contains easy-to-use cross reference and instructions plus the accessories required to replace the existing hot surface ignition module.
- Provides one or three ignition trials (four-second or seven-second trials) per call for heat
- Field selectable number of ignition trials and trial time based on unit being replaced
- Igniter warm up time: 7 (12 seconds second and third trial), 17 (27 seconds second and third trial), 34, or 45 seconds

resideo

Part No.	Description	Supply Voltage
S8910U3000	Universal Hot Surface Ignition Control	24V


50E47-843

HOT SURFACE MODULE, NON-INTEGRATED

Universal replacement for silicon carbide, non-integrated HSI modules. Replaces all 50E47 W/R and virtually all competitive silicon carbide, non-integrated modules.

- Six insertable program keys cover most existing timing variations
- Tri-color LED indicator for diagnostics
- Direct and indirect flame sense

EMERSON

Part No.	Description
50E47-843	Universal (NI) HSI Module


50A55843

HOT SURFACE MODULE, INTEGRATED

Universal replacements for existing W/R integrated silicon carbide (50A50/50A55) and silicon nitride (50A65) modules.

EMERSON

Part No.	Description
50A55843	Silicon Carbide Module
50A65-843	Silicon Nitride Module


50A55743

HOT SURFACE MODULE, INTEGRATED, FURNACE CONTROL KIT, OEM DIRECT REPLACEMENT

Replaces: White-Rodgers 50T55-289 and 50A55-289 and virtually All Goodman Single-Stage HSI controls with 120V ignitors.

Features:

- 120 VAC Ignitor Output
- 120 VAC Humidifier Output
- 120 VAC Electronic Air Cleaner Output
- 120 VAC 2-Speed PSC Circulator Output
- Fuse Protection – 5 Amp
- Furnace Status LED
- Heat Fan OFF Delay (Dipswitch Selectable)
- Y, W, R, G, C, TWIN Terminals
- Pre-purge time: 15 seconds

EMERSON

Part No.	Description
50A55743	Single-Stage HSI Integrated Furnace Control Kit


50A56956

HOT SURFACE MODULE, INTEGRATED, FURNACE CONTROL KIT, YORK SINGLE STAGE DIRECT REPLACEMENT

Replaces: White-Rodgers 50A56-242 and 50A56-243 and virtually all York single stage HSI controls with 120V ignitors

Features:

- Selectable Continuous Fan Speed
- System Diagnostics LED with Fault Recall
- Twin
- Third Fan Speed
- Two-Stage Cooling Y2 Input
- 120 VAC Ignitor Output
- 120 VAC Humidifier Output
- 120 VAC Electronic Air Cleaner Output
- 120 VAC 2-Speed PSC Circulator Output
- Fuse Protection — 5 Amp
- Heat Fan OFF Delay (Dipswitch Selectable)
- Y, Y2, W, R, G, C, TWIN Terminals

EMERSON

Part No.	Description
50A56956	York Single-Stage HSI Integrated Furnace Control Kit

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

IGNITION CONTROL


50M56743

HOT SURFACE MODULE, INTEGRATED FURNACE CONTROL, NITRIDE IGNITION, MULTI-SPEED

Controls Gas Valve, Ignitor, Blower, Inducer and Air Cleaner. Replaces OEM Goodman and White-Rodgers Models.

- System diagnostic LED with fault recall
- Multi speed circulator
- One or two stage gas valve
- Input voltage: 25 VAC 50 / 60 Hz
- Pre-purge time: 30 seconds
- Post-purge time: 15 seconds

EMERSON

Part No.	Description
50M56743	Nitride Multi Speed Integrated Furnace Control, HSI
50M56X843	Universal Integrated Single Stage 120V Hot Surface Ignition Control Kit


21D83M843

NITRIDE IGNITION INTEGRATED FURNACE CONTROL KIT

Controls gas valve, ignitor, blower, inducer, humidifier and air cleaner. Replaces Lennox models.

Kit includes:

- (1) 50A66-843 Ignition Control Board
- (1) Wiring harness (9-pin to 12-pin)
- (1) Wiring harness (4-pin to 6-pin)
- (1) Mounting panel
- (4) Stand-off fasteners
- (1) Circuit breaker
- (1) 4" blue wire
- (2) Wiring diagrams

Features:

- Includes diagnostic indicator flash codes
- 3 fan speeds
- Remote flame sense
- Humidifier and electronic air cleaner connections (optional)

EMERSON

Part No.	Description
21D83M843	Single-Stage HSI Integrated Furnace Control Kit



S8610U3009

INTERMITTENT PILOT MODULE, UNIVERSAL

Field service replacement for most Honeywell, Robertshaw, Johnson, and UTEC (HSC) intermittent pilot ignition modules. Provides electronic control of most intermittent pilot ignition systems used on gas-fired furnaces, boilers and other heating appliances.

- Provides ignition sequence, flame monitoring and safety shutoff for intermittent pilot central furnaces and heating appliances
- Provides 100 percent pilot gas shutoff if pilot fails to light; after 6-minute delay, trial for ignition is repeated. Ignition trial/delay sequence is repeated until the appliance lights or call for heat is removed.
- For use with natural or LP gas
- Includes remote reset, automatic vent damper plug
- For use in single rod or dual rod/ remote sense applications
- Supply voltage: 24V

resideo

Part No.	Lockout Time (Sec.)
S8610U3009	15 or 90


C610U1C

INTERMITTENT PILOT MODULE, UNIVERSAL

The BG1600M51E1AA is a microprocessor based ignition control. The microprocessor provides reliable software control of all timings and operates a diagnostic LED. It provides ignition sequence, flame monitoring, and safety shutoff for intermittent pilot boilers, furnaces and other heating appliances. BASO has designed-in features to retrofit other universal direct spark ignition controls with spark ignition and flame rectification such as: Johnson Controls, Honeywell, White Rodgers, Fenwal, and Robertshaw. It replaces controls with the following specifications:

- Flame detection using flame rectification technology
- Single rod (local sense) or dual rod (remote sense) flame sensing
- 100% shutoff/lockout with 5 minute continuous retry
- Trial times of 25 seconds or longer
- Prepurge period 1 second or less
- Main burner 400,000 BTU/hr maximum

BASO
BASO Gas Products LLC

Part No.	Contact Rating (Amps)	Min. Flange Current (MicroAmps)
C610U1C	2	0.15

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


C670AGA1C

INTERMITTENT PILOT MODULE

BASO has designed in timings on various Intermittent pilot controls with flame rectification to replace many Johnson Controls, Honeywell, United Technologies, Fenwal, and Robertshaw. These are microprocessor based controls suited for direct replacement and new applications. Intermittent pilot modules provide ignition sequence, flame monitoring, and safety shutoff for boilers, furnaces, and a variety of other commercial cooking equipment. Intermittent pilot units are available with damper connection or without. Intermittent pilot modules are available with various specifications as follows:

- Single rod (local sense) or dual rod (remote sense) flame sensing
- Trial for ignition 1 or 3
- 100% shutoff/lockout with none, 5 or 60 minutes continuous retry
- Trial times of infinite, 4, 5, 8, 10, 15, 20, 25, 30, 50, 60, 85, 90 and 120 seconds.
- Pre-purge period of none, 4, 8, 10, 15, 30, 45, 60 seconds or 4 minutes
- Main burner 400,000 Btu/hr max.
- Pilot burners with flow rates of 1,500 Btu/hr or less
- Temperature ranges of -40°F to 170°F
  Other models available upon request

BASO Gas Products LLC

Part No.	Continuous Retry	Replaces
BG1600M00FP1AD	None	G770MHC1C
C670AGA1C	5 Minutes	BG1600M00ER1BD
BG1600M01ER1AD	5 Minutes	G775RGA
C670JGA1C	5 Minutes	BG1600M01CR1BD
C661PGA1	60 Minutes	BG1600M02CR1AD
BG1600M10EK1AA	None	G600AX1
BG1600M10ER1AD	None	G770RHA
BG1600M10FF1AA	None	G600LX1
BG1600M11ER1AD	5 Minutes	G775RHA


780845

INTERMITTENT LOCKOUT MODULE

When the thermostat calls for heat, the 780-845 control simultaneously initiates ignition sparking and opens the pilot valve portion of the gas valve. Pilot flame recognition stops ignition sparking and opens the main valve portion of the gas valve. Pilot burner flame is continuously monitored at a synchronous frequency for the duration of the heating cycle. Should the pilot flame fail during the heating cycle, the control will shut off the main valve until the pilot flame is established. The 780-845 lockout ignition control provides 90 seconds of spark (4 to 15 sparks per second), followed by a 6 minute time delay (purge) between ignition attempts. After three tries, if no pilot flame is sensed, the control goes into a one-hour lockout period. At the end of the lockout period, if the demand for heat is still present, the unit will repeat the three tries for ignition.

Robertshaw

Part No.	Description
780845	Intermittent Lockout Module
953623E	S3C Valve Module


C161FJD1C

DIRECT SPARK MODULE

BASO has designed in timings on various direct spark controls with flame rectification to replace many Johnson Controls, Honeywell, United Technologies, Fenwal, and Robertshaw. These are microprocessor based controls suited for direct replacement and new applications. Direct spark modules provide ignition sequence, flame monitoring, and safety shutoff for boilers, furnaces, and a variety of other commercial cooking equipment. Direct spark modules are available with various specifications as follows:

- Single rod (local sense) or dual rod (remote sense) flame sensing
- 100% shutoff/lockout with none, 5 or 60 minutes continuous retry
- Trial for ignition 1 or 3
- Trial times of infinite, 4, 5, 8, 10, 15, 20, 25, 30, 50, 60, 85, 90 and 120 seconds.
- Pre-purge period of none, 4, 8, 10, 15, 30, 45, 60 seconds or 4 minutes
- Main burner 400,000 Btu/hr max.
- Temperature ranges of -40°F to 170°F
- 24 Volt
- Recycle time: 300 seconds
- Other models available upon request

BASO Gas Products LLC

Part No.	Prepurge Time (Sec.)	Ignition Attempts (before lockout)	Ignition Trial Time (Sec.)	Replaces
C161FJD1C	None	3	4	BG110MAAK1G
C161KKD1C	30	3	8	BG1100MADL1G

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

IGNITION CONTROL



BGN8911C

IGNITION MODULE FOR LENNOX PULSE FURNACE

Direct replacement for natural gas or propane ovens which have a Johnson Controls G891 Pulse Ignition Control

BASO Gas Products LLC

Part No.	Description
BGN8911C	Lennox Pulse Replacement for G891



35704600005

DIRECT SPARK MODULE, 120 VOLT

Local sensing type non prepurge control, thermostat reset model with isolated gas valve contacts, 1 ignition attempt before lockout, 10 second valve trial time, open board with 1/4" quick connects.

Robertshaw

Part No.	Old Fenwall Number	Use with
35704600005	05-142301-005	Lennox 31C0801



S87D1004

DIRECT SPARK MODULE, S87 SERIES

Provides electronic control of direct spark ignition systems used on gas fired furnaces, boilers, and other heating appliances.

- Includes alarm terminal

Honeywell Home

Part No.	Lockout Time (Sec.)
S87D1004	6
S87D1012	11



35605601003

DIRECT SPARK MODULE, 24 VOLT

The direct spark ignition unit is a microprocessor based gas ignition control designed primarily for direct ignition and burner supervision applications such as gas furnaces, boilers, water heaters and other similar devices. The system features direct main burner ignition, remote sensing, prepurge, retry for ignition and a fixed time for flame lockout time.

Robertshaw

Part No.	Old Fenwall Number	Prepurge Time (Sec.)	Ignition Attempts (before lockout)	Valve Trial Time (Sec.)
35605601003*	05-296426-753	None	1	7
35605601005	05-296426-755	None	1	10
35605606223	05-296466-253	30	3	7
35605606111*		15	3	4



ICM280

FURNACE CONTROL MODULE

Microprocessor based using software to determine the sequence of operation, timing, trial for ignition flame sensing and lockout

Monitors the status of the room thermostat, limit and rollout switches, air pressure switch and flame sensor before energizing the vent motor, blower control, hot surface ignitor and gas valve

- Provides diagnostic LEDs to aid in troubleshooting
- Designed for 100% gas shutoff in case of ignition failure
- Compatible with 24Vac thermostats
- Twinning with similar boards
- Voltage range for 280 Series: 98 to 132 Vac

ICM CONTROLS

Part No.	Voltage	Replaces
ICM280	115/1	White-Rodgers: 50T35-790, 50T35-743
ICM281	115/1	Carrier CESO1100570(0,1,2)
ICM291	208-240/1	Carrier LH33WP003/3A
ICM2812KIT	120	Universal

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



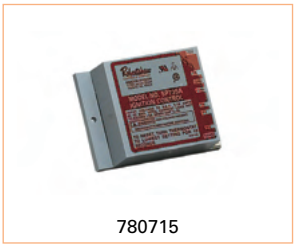
780001

MODULE UNI-KIT®

Robertshaw's universal ignition control Uni-Kits feature a flame sense circuit that will work equally well on a one rod (local sense) or 2 rod (remote sense) application.

- Not for hot surface
- Kits feature bracket, connector and hardware
- Input voltage: 24 Vac

Part No.	Type
780001*	Non-Lockout
780002*	Lockout, 60 Seconds


780715

MODULE ONLY

Not for hot surface.

Part No.	Type	Description
780715*	Non-Lockout	Flame Rectification, Use w/7000BDER, 7100DER, 7200IPER
780735*	Lockout	Flame Rectification, Use w/7000BDER, 7100DER, 60 Second Timing


780705

FLAME RECTIFICATION CONVERSION UNIT

Convert D and K Series heat sensing/flame switch pilot ignition systems to flame rectification without replacing the existing gas valve. Included in each kit is a universal pilot mounting bracket with factory installed electrode and sensor, ignition control unit, wiring harness and complete in-depth instructions.

The 780-704/705 modernizations kits DO NOT include a new gas valve. They are designed to utilize the existing gas valve. The existing gas valve is at least 12 years old or older. We suggest that a complete new 712 Series kit with a new gas valve be considered before using the 780-704 or 780-705 modernization kit.

Part No.	Type
780705*	Non-Lockout


5059134

PILOT RELIGHT

Ignition control generates spark pulses to ignite pilot gas. The relight control generates sparks until a pilot flame is sensed between the electrode and ground. The relight control detects a flame through flame conduction.

When flame current is sensed between the electrode and pilotburner ground, the relight control stops sparking. If the flame is extinguished during the heat call, the relite control will begin sparking the instant the flame goes out.

Part No.	Input Voltage	Connection Type
5059134	24	Spike Connector


785001

PILOT RELIGHT

The Robertshaw 785 Series automatic pilot relight kits are designed for use on rooftop heating equipment, water heaters, boilers, space heaters, unit heaters, dryers, and other commercial, industrial, and residential appliances where the problem of pilot outage may occur. It should only be applied to those systems which already incorporate the necessary pilot-safety control system.

- Replaces most W/R 5059, 5059A

Part No.	Ignition Rating (Vac)	Voltage
785001*	120/24	15 kV Minimum

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

RETROFIT


Y8610U4001

IGNITION, UNIVERSAL

Complete kits for converting conventional standing pilot systems to intermittent pilot systems. For use with 24 Vac gas-fired atmospheric furnaces, boiler and heating appliances.

- Y8610F kits are for use with natural gas only; continuous trial for ignition until the pilot lights or the system is shut down manually
- Y8610U kits are for use with natural or LP gas; provides 100% pilot gas shutoff if pilot fails to light; after 6-minute delay, trial for ignition is repeated. Ignition trial/delay sequence is repeated until the appliance lights or call for heat is removed.
- Each system includes: Intermittent pilot module, intermittent pilot dual valve combination gas control, LP gas conversion kit with Y8610U, igniter-sensor assembly, ignition cable (30"), wiring harness (30"), and reducer bushings

resideo

Part No.	Gas	Includes
Y8610U4001	Natural or LP	VR8204A2142 valve
Y8610U6006	Natural or LP	VR8304M3558 gas valve, Ignition module, Pilot burner hardware, Ignition cable, Wiring harness


712008

IGNITION, LOCKOUT

- Lockout model: 90 second spark, 6 minute delay, 3 tries, 1 hour lockout
- LP regulator included with kit

Robertshaw

Part No.	Gas Valve Part Number	Size (In.)	Module Part Number	Natural Gas Capacity (Btuh)
712008	720070	1/2 x 3/4	780735	200000
712006	700056	3/4 x 3/4	780735	350000


712017

IGNITION, NON-LOCKOUT

- Natural gas only.

Robertshaw

Part No.	Gas Valve Part Number	Size (In.)	Module Part Number	Natural Gas Capacity (Btuh)
712017	720070	1/2 x 3/4	780715	200000
712016	700056	3/4 x 3/4	780715	350000
712019*	700059	1 x 1	780715	720000

SENSOR


Q347A1004

SPARK IGNITOR

Produces spark for direct ignition of main burner.

- Use with S87C, D, S89E, F; and Q354A

Honeywell Home

Part No.	Ground Strap Orientation	Electrode Length (In.)
Q347A1004	Standard	2 1/32
Q347A1012	90° Angle	2 1/32


Q354A1018

FLAME RECTIFICATION

Detects the presence of a main burner flame.

- Use with S825, S87C, D, K or S89E, F

Honeywell Home

Part No.	Flame Rod Length (In.)
Q354A1018	6


76056

CYCLE-PILOT ELECTRODE

Replaces cycle-pilot ignition electrodes and cable assemblies.

EMERSON

Part No.	Description
76056	24" Lead with Slip On Bracket


760401

HOT SURFACE IGNITION, FLAME

Can be remotely mounted on multiple burners or adjacent to ignitor. Designed to detect the presence of flame. 760802 is exact replacement for OEM mode;

EMERSON

Part No.	Lead Length
760401	30"
760802	30"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


FLS010

FLAME SENSOR

Part No.	Description
FLS010*	Replaces Goodman 0130F00010,B1172606, ICP 1380687
FLS013*	Replaces Carrier LH33WZ514, LH33WZ516, LH680013
FLS014*	Replaces Carrier LH33WZ511, LH33WZ515, LH680012, LH680014
FLS301*	Replaces Rheem 62-23543-01, Packard PFS301
FLS700*	Replaces York 025-27773-700, ICP 1380679
790843A1	Universal Replacement Flame Sensor


FSC10

FLAME SENSOR CLEANER

- Easily clean sensor
- Prevent false starts
- Convenient key ring

Part No.	Description
FSC10	Flame Sensor Cleaner

GAS CONTROL


Q3200U1004

GLOWFLY™

Designed to provide a robust field service replacement ignitor in gas fired appliances with Norton/St Gobain 120 VAC silicon carbide hot surface ignitors. The Q3200U uses a 120 volt silicon nitride ignitor design with long life and high resistance to damage or burn out in the appliance. The kit includes the specially designed silicon nitride igniter and six different bracket configurations to adapt the ignitor to the specific appliance application.

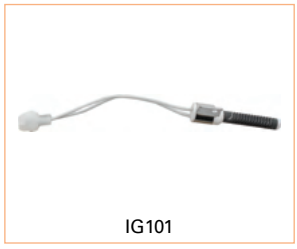
Part No.	Description
Q3200U1004	Universal hot surface ignitor, single kit
Q3200U2002	Universal 120Vac Hot Surface Igniter. Pack of 6
Q3205U1107	Pro Universal 120Vac Hot Surface Igniter


SIG1100

IGNITOR

- Lower power consumption
- Engineered reaction bonded silicon carbide design - greater physical strength
- Superior gas lighting ability
- Includes: Ignitor, 3 mounting brackets, 1 self tapping screw, 2 porcelain wire nuts
- Replaces many OEM ignitors

Part No.	Description
SIG1100	Universal


IG101

IGNITOR

- Replaces exact OEM ignitors
- Highest density silicon carbide - greater physical strength
- Double helix design
- IG1000 by using one of two included brackets replaces up to 100 original part numbers including Robertshaw 41-402, 403, 405, 407, 409, 410
- IG101 Replaces
- Nordyne 902661, 902694
- Carborundum FC007, FC035, FC035KI
- IG102 Replaces
- Amana 10735002
- Claire Bros C-238 (-1)
- Coleman 1474-511, 1474-521
- Carborundum FC046, FC046KI
- Williamson 9050
- York 025-32625-000, 025-32626-000, 373-05342-700, 373-09154-700, 473-12509-001

Part No.	Description
IG101	Nordyne
IG102	York


SSN2000

IGNITOR

- Replaces over 100 ignitors
- Universal hot surface silicon nitride ignitor; incorporates SI3N4 technology
- Non porous construction for longer ignitor life, uses half the power of silicon carbide ignitors

Part No.	Description
SSN2000	Universal Silicon Nitride Ignitor

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GAS CONTROL


SSN24

IGNITOR KIT, UNIVERSAL

- Silicon Nitride design for strong, durable operation and performance.
- Backward compatible with all 24 Volt Honeywell 1st and 2nd second generation Smart Valves.

Supco

Part No.	Description
SSN24	Universal 24-Volt Silicon Nitride Ignitor and Flame Rod Assembly Kit


41602

IGNITOR, NORTON MINI

The 41-600 Series Norton hot surface mini ignitors made of a unique, non porous, high strength proprietary material. Three second heat up and small size; easy handling, simple installation, trouble free operation.

41605 includes harness and brackets (conversion kit)

Robertshaw

Part No.	Factory Number	Housing	Use with
41602	601TB	None	Amana 20165702
41603	601XBM	2.5″	York 025-33421-000
41605	601XBM	2.5″	York 473-20937-001
41-604	601XBM	4″	Armstrong 44744-2


767A356

IGNITOR, CARBIDE

EMERSON

Part No.	Terminals	Lead Length	Insertion Length (In.)
767A356	0.093″ Male Pins	6″	2.0
767A357	0.093″ Male Pins	5.25″	2.25
767A361	0.093″ Male Pins	5.25″	2.25
767A365	0.25″ female spade	5.688″	1.87
767A370	0.093″ male pins	5.25″	2.22
767A369	Molex Internally Keyed Connector with .093″ Male Pins	5.50″	2.0
767A371	Stripped ends	19.125″	2.25
767A372	Modex side lock connector with 0.092″ male pins	5.25″	2.25
767A373	Receptacle with .093″ Male Pins	5.25″	2.25
767A374	Stripped Ends	11	

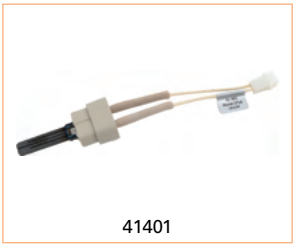

SKIT03033

SILICON CARBIDE IGNITOR

- Steady current: 4.25 Amps 115 VAC.
- Max. Current: 5 Amps 132VAC.
- Time to Temp (1800°F): < 17 seconds

Supco

Part No.	Description
SKIT03033	Replaces Trane® KIT03033


41401

IGNITOR, SILICON CARBIDE

The 41-400 Series Norton hot surface ignitors are made of high-purity recrystallized silicon carbide (Crystar™) which combines physical and thermal strength with stable electrical properties. The 41-400 Series is designed to reach ignition temperature(s) within 17 seconds. They have 18-gauge nickel chrome lead wires embedded and metalized in place for maximum holding strength and electrical conductivity. The lead wires are also enclosed with a special high temperature fiberglass insulation providing total electrical protection.

Robertshaw

Part No.	Lead Length	Factory Number	Ceramic Block Width (in.)	Ceramic Block Style	Connector Style
41401*	4 1/2″	271A	1 5/8	A	A
41402*	19″	271W	1 1/4	B	None
41403*	5 1/2″	271M	2	C	None
41404	4 1/2″	271M	2	C	D
41405	5 1/2″	271D	1 1/4	D	None
41-406*[1]	10 1/2″	271Y	2 1/8	E	None
41407*	4 1/2″	271	2	C	B
41408*	5″	271N	1 1/4	B	C
41409	4 1/2″	271	2	C	D
41410*	4 1/2″	271N	1 1/4	B	B
41411	4 1/2″	271N	1 1/4	B	C
R41412*	5 1/4″		1 1/4	F	D
41413[2]	1 3/8″	201C	1 3/8 Dia.		1/4″ QC
41414	5 1/4″	271NM	1 1/4	F	D
41418	5 1/4″	271NM	1 1/4	B	C

1 1 7/8″ Hole centers 2 2″ long, 1 3/8 diameter

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



768A842

IGNITOR, NITRIDE

- AMP terminal receptacles with female sockets.
- White teflon coated leads.
- Steatite insulator with or without (768A845) steel zinc plated mounting tabs.
- 54mm ignitor element length.

EMERSON

Part No.	OEM	Terminals
768A842	Amana, 11111701	0.093
768A843	Thermo, 768A-143	0.084
768A844	Lennox, 41K5601	0.084
768A845	Trane, B340970P01	0.084



21D642

UNIVERSAL UPGRADE KIT

Designed to replace silicon carbide and older silicon nitride ignitors

- Upgrades silicon carbide integrated or non integrated systems to long lasting and durable nitride
- Kit includes universal ignitor mounting bracket, ignitor with 15 1/2" leads, mounting adapter bracket, 2 ceramic wire nuts, cross reference, instruction booklet and upgrade label for the furnace
- Super tough nitride ignitor construction; no more broken ignitors
- Easy ignitor replacement.
- 3 year warranty

EMERSON

Part No.	Description
21D642	Nitride Upgrade Kit



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GAS REGULATOR


RV481/2

RUBBER SEAT POPPET

These rubber seat poppet type regulators are designed primarily for main burner and pilot load applications where precise control of tiny flows is an essential operating requirement. Housings are of high strength aluminum die castings. All models have been tested for multi-poise mounting and may be installed in any plane or angle without restriction. Other than normal upright position will result in slight difference of outlet pressure. They may be used with natural, manufactured, mixed, LP, or LP gas-air mixture.

- Maximum inlet pressure: 1/2 psi
- RV48 Leak limiting devices 12A04 or 12A06 must be used if not vent piped to code

MAXITROL

Part No.	FPT (In.)	Range of Regulation (BTUH) Main Burner	Range of Regulation (BTUH) Burner and Pilot	Standard Spring (WC)	Height (In.)	Length (In.)
RV481/2	1/2	150 to 230,000	150 to 230,000	3.0 to 6.0	2 3/4	3 3/8
RV483/4	3/4	150 to 250,000	150 to 250,000	3.0 to 6.0	2 3/4	3 3/8


RV521/2

STRAIGHT-THRU-FLOW

Main burner only, non-lockup type. They should not be used as a line gas pressure regulator ahead of low pressure controls. Use only where downstream controls can operate at line pressure. Suitable for multi-poise mounting. The flow pattern provides accurate sensitive regulation at extremely low pressure differentials. Straight-thru-flow appliance regulators are intended for use with all fuel gases, and may also be used with air or other noncorrosive gases within their pressure limits.

- Maximum inlet pressure: 1/2 psi, except RV611 which is 1 psi
- Standard spring: 3" to 6" W.C.

MAXITROL

Part No.	FPT (In.)	Regulation Range (CFH)	Standard Spring (WC)	AGA Max (CFH)	Height (In.)	Length (In.)
RV521/2	1/2	151 to 956	3" to 6"	450	4 7/8	3 3/16
RV523/4	3/4	151 to 956	3" to 6"	450	4 7/8	3 3/16
RV533/4	3/4	217 to 1,369	3" to 6"	710	5 13/16	3 3/4
RV531	1	217 to 1,369	3" to 6"	710	5 13/16	3 3/4
RV611	1	379 to 2,464	3" to 6"	1,100	6 7/16	4 3/8


32531/2

LEVER ACTING DESIGN

Pounds to inch regulator, meeting utility specifications, for use on residential, commercial, and industrial applications where adequate inlet pressures are available.

- Suitable for multi-poise mounting, except with vent limiting device
- Can be used as a single stage regulator or a first-stage on two-stage system
- Precise regulation from pilot flows to full regulator capacity
- Maximum capacity values are single appliance/total multiple appliances per regulator
- Regulation range (CFH) based on outlet pressure setpoint of 10" W.C., Based on 1" w.c. pressure droop from set point**. 0.64 sp gr gas expressed in CFH (m3/h)

MAXITROL

Part No.	FPT (In.)	Regulation Range (CFH)	AGA Max (CFH)	Height (In.)	Length (In.)
32531/2[1]	1/2	100 to 320	150	3 1/2	4 1/4
3257AL11/4	1 1/4	650 to 2,060	-	7 1/4	8.00
3257AL11/2	1 1/2	650 to 2,060	-	7 1/4	8.00

1 Based on use as an appliance regulator


R400S

BALANCED VALVE DESIGN

Intended for use with both main burner and pilot load applications. Ideally suited for use with infrared heaters and pilot lines on large industrial heaters and boilers. These regulators are not suitable for dead-end lock-up service. They are capable of controlling pressure at very low flows such as standing pilots, but should not be used as a line gas pressure regulator for appliances equipped with electronic ignition unless automatic control valve can open against line pressure.

- Suitable for multi-poise mounting and all fuel gases
- Standard spring: 3" to 6" W.C.

MAXITROL

Part No.	FPT (In.)	Regulation Range (CFH)	Standard Spring (WC)	Height (In.)	Length (In.)
R400S	1/2	86 to 303	3" to 6"	3 1/4	2.00
R500S	3/4	196 to 876	3" to 6"	4 2/3	3 1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


210E11/2

SPRING LOADED

For gas fired boilers, steam generators, industrial furnaces, ovens and similar high demand equipment. Balanced valve design eliminates the inlet pressure effect acting on the valve. Intended for use with all gas fuels. The regulator should be mounted in an upright position in a horizontal pipe run. The 210 Series is a lock-up type regulator and complies with codes using this specification. Designed to operate as a zero governor in the normal upright position

- Standard spring: 3" to 6" W.C.

MAXITROL

Part No.	FPT (In.)	Regulation Range (CFH)	Standard Spring (WC)	Height (In.)	Length (In.)
210E11/2	1 1/2	4,450 to 10,500	3" to 6"	11 1/4	7 5/8


12A04

VENT LIMITER

Automatic vent limiting device - ball check permits free inhalation for fast regulator - diaphragm response on opening cycle, but limits gas escapement should a diaphragm rupture. May be used in multi-poise mounting, but when using the vent limiting device, regulator must be mounted in a horizontal upright position for best performance.

- RV81, RV91, RV111, 325-7, 210 Series must be vent piped per code

MAXITROL

Part No.	Description	Use with
12A04	IAS Certification 14" W.C., 1/8" MPT	RV53, RV61
12A06	Orifice Only, Less Ball Check	RV53, RV61
12A09	IAS Certification 2 psi LP 5 psi Natural with Model 325-3, 1/8" MPT	325-3, R & RS
12A39	IAS Certification 2 psi LP 5 psi Natural with Model 325-5A, 3/8" MPT	325-5A


R521036

SPRINGS

MAXITROL

Part No.	Use with	Outlet Pressure Range (WC)	Color
R521036	RV52, RV500S	3 to 6	Plated
R811036	RV81, 210D	3 to 6	Plated
R811048	RV81, 210D	4 to 8	Orange
R8110412	RV81, 210D	4 to 12	Violet
R81101022	RV81, 210D	10 to 22	Red
R9110412	RV91, 210E	4 to 12	Violet

WARM AIR CONTROL


L4064B2210

FAN AND LIMIT

For control of high limit and fan motor in all types of forced air heating systems. The L4064 is the fastest responding fan and limit available.

- L4064W features a 20-90 second preheat before fan start
- L4064B, W models have manual fan switch that overrides fan control to keep fan running continuously
- High limit: 100-250°F

Differential: 25°F, fixed

- Fan on: 65-215°F

Differential: 22°F minimum

- Fan off: 50-200°F
- Contact rating—Fan: 7 F.L. Amp 240 Vac

Limit: 4 F.L. Amp 240 Vac

resideo

Part No.	Element Length	Mounting Bracket
L4064B2210	11 1/2"	Surface
L4064B2228	5"	Surface
L4064B2236	8"	Surface

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WARM AIR CONTROL


5D5135

FAN AND LIMIT, UNIVERSAL

- Single element type for applications with narrow space limitations
- Regulates fan or blower operation and acts as high limit safety control
- Designed to be interchangeable with other flush mounted, single element fan and limits
- Range: fan -50 to 265°F, differential 15-70°F
  Limit: 100 to 300°F, differential 25°F, fixed
- Switch: fan SPST, close rise, 7.0 F.L. Amp 240 Vac
  Limit: SPST, open rise, 6.0 F.L. Amp 240 Vac

EMERSON

Part No.	Element Length	Limit Differential (°F)	Limit Temperature Range (°F)
5D5135	5″	25, fixed	100 to 300
5D5190	8″	25, fixed	100 to 300
5D5178	11″	25, fixed	100 to 300


FALTS57C13BT120A

FAN AND LIMIT, TIME/TEMPERATURE

Turns the blower on and off as a function of time and temperature. Includes limit portion for safe operation of furnace.

- Adjustable fan off temperature setting
- Adjustable limit temperature setting
- Includes a Heat Assist circuit to provide a timed blower on function
- Element length: 7″
- Fan off temperature: 90 to 120°F

CAM-STAT®

Part No.	Element Length	Fan Off Temperature Range (°F)	Limit Temperature Range (°F)	Limit Differential (°F)	Comments
FALTS57C13BT120A*	7″	90 to 120	150 to 250	30, Fixed	SPDT


L4029E1227

LIMIT, L4029 SERIES

Opens line or low voltage circuit and shuts off fan if air temperature reaches setpoint.

- Manual reset
- May be used as a fire stat in ductwork
- Positive lockout of burner in case of fan failure
- Contact rating: 5 F.L. Amp 240 Vac
- Duct mounting: 3″ insertion
- Fan off temperature: 90 to 120°F

Honeywell Home

Part No.	Fixed Cutout Setting (°F)	Contact Rating (Amps)
L4029E1227	125	5 F.L. Amp 240 Vac
L4029E1011	135	5 F.L. Amp 240 Vac
L4029E1219	165	5 F.L. Amp 240 Vac
L4029E1029	200	5 F.L. Amp 240 Vac
L4029E1045	240	5 F.L. Amp 240 Vac


L593BA

LIMIT

Safety device which cycles the blower and gas valve in case the fan control device fails.

- SPDT switching action
- Fan off temperature: 120 to 250°F

CAM-STAT®

Part No.	Element Length	Switch	Off Temperature Range (°F)
L593BA*	3″	SPDT	120 to 250


F473TD12025C

FAN

Turns the blower on and off as a function of temperature.

- Fan off temperature: 90 to 120°F
- Fan differential: 25 to 50°F

CAM-STAT®

Part No.	Extension Width (In.)	Element Length
F473TD12025C*	7/16	3″
F477TD12025C*	7/16	7″
F21412A140	1 1/16	3″
F21413A140	1 1/16	7″

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


FA47TS3110

FAN, TIME/TEMPERATURE

Turns the blower on and off as a function of time and temperature.

- Adjustable fan off temperature setting
- Includes Heat Assist circuit to provide a timed blower on function
- Time delay at 24 Vac: 25-60 seconds
- Fan differential: 50°F, fixed
- Fan off temperature: 90 to 120°F

CAM-STAT®

Part No.	Element Length
FA47TS3110*	3″
FA47TS7110*	7″


S1061A5040C

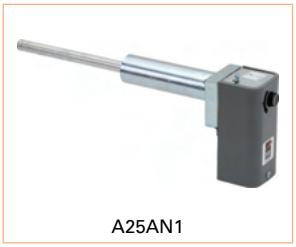
TIME DELAY

Used in controlling high current blowers, relays and contactors.

- 24 Vac input
- Available in SPST and SPDT configurations
- Provides delay on and delay off timing
- Contact rating—Normally open terminals: 8 F.L. Amp 240 Vac Normally closed terminals: 2.9 F.L. Amp 240 Vac

CAM-STAT®

		Time Delay (Sec.)	
Part No.	**Switch**	**On**	**Off**
S1061A5040C*	SPST	45 to 55	30 to 50


A25AN1

FIRESTAT, DUCT

The A25 warm air controls lock out on a temperature increase to the control set point. Manual reset is required before the electrical contacts can be reclosed.
The A25 is normally located in a return air duct and wired to shut down air conditioning or ventilating fans when the temperature of the air becomes excessive, as from a fire.
Construction with 125°F stop setting meets requirements of NFPA 90A, Standard for the installation of air conditioning and ventilating systems for return air ducts of gypsum board construction.

Johnson Controls

Part No.	Switch	Tempera-ture (°F)	Differen-tial	Limit Temperature Range (°F)	Max. Bulb Tempera-ture (°F)	FLA (@ 240 V)
A25AN1*	SPDT, Open High	25 to 215	Manual Reset	125	300	8


A19EAF2

DUCT, FLANGE MOUNT

Wide range temperature control with special air coil sensing element and adjustable mounting flange.
These duct thermostats are used on roof top units, make-up heaters, duct heaters, and air handling systems of all types.

Johnson Controls

Part No.	Switch	Tempera-ture (°F)	Differen-tial	Max. Bulb Tem-perature (°F)	FLA (@ 240 V)
A19EAF2*	SPDT	30 to 110	2, Fixed	140	3

REMOTE BULB


A19AAB10

HIGH RANGE

The A19 Series are single stage temperature controls that incorporate liquid filled sensing elements.
Suitable for temperature control in heating, ventilating, and refrigeration.

Johnson Controls

Part No.	Switch	Tem-pera-ture (°F)	Differ-ential	Bulb (In.)	Cap-illary Length	Max. Bulb Tempera-ture (°F)	Con-tact Rating (Amps)
A19AAB10*[1]	SPST, Open High	200 to 550	10°F, Fixed	3/16 x 6	8′	620	8
A19AAC9*	SPDT	100 to 240	5°F, Fixed	3/16 x 3 7/8	6′	290	8

1 Oven thermostat

ACCESSORIES


S437A1009

SAIL SWITCH, HIGH VELOCITY

Responds to the air velocity in heating or warm air ducts.

- Contact rating: 5.1 F.L. Amp 240 Vac

Honeywell

				Dimensions (In.)	
Part No.	**Switch**	**Operating Velocity (fpm)**	**Sail Dimension (In.)**	**H**	**W**
S437A1009	SPST	1,900 - 2,250	1 x 3	2.75	4.25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ACCESSORIES


S688A1007

SAIL SWITCH, LOW VELOCITY

Used in forced air systems to activate electronic air cleaners, humidifiers or other auxiliary equipment in response to airflow from system fan.

- Red flag drops into window on fan compartment suction increase

Honeywell Home

Part No.	Switch	Operating Velocity (fpm)	Sail Dimension (In.)	Dimensions (In.) H	W
S688A1007	SPDT	75 to 250	5 x 10	2.80	4.40


S483B1002

WINTER WATCHMAN

Used as a freeze warning device. Completes circuit to household lamp on temperature fall, indicating inoperative heating equipment.

- Lamp plugs into receptable at bottom of Winter Watchman device
- Useful when house is unoccupied to notify a neighbor of a temperature drop so heating source fault can be rectified before freeze-up occurs

Honeywell Home

Part No.	Temperature (°F)	Description
S483B1002	30-60	Winter Watchman 120 V for Freeze Warning


E152601

HEAT PUMP DE-ICE TIMER

Provides field-adjustable timer control for de-icing of heat pump outdoor coils. Defrost cycle starts every 30, 45 or 90 minutes. Interlock prevents more than one defrost cycle per time period and temperature must be 28°F or lower to start.

- Contact rating: 10 F.L. Amp 240 Vac

RANCO

Part No.	Switch	Supply Voltage	Capillary Length
E152601	SPDT	240	60", w/Bulb

HEAT PUMP REVERSING VALVE

REVERSING VALVE

These solenoid operated reversing valves are slide type, 4 way with a 4 way pilot valve and operate under the full pressure of the heat pump system. The valves are used on unitary, split system, and window-type heat pump applications. There are six different styles designed to meet your particular system need.

- Coils not included — uses LDK style


V2-408060-170

OPPOSED PARALLEL

V10-414140-470 is used for heat recovery applications

RANCO

Part No.	Capacity (Tons) R407C	R22	R410A	Connection Size (In.) Suction	High	Replaces
V2-408060-170*	0.8 to 1.8	.75 to 2.0	.9 to 2.2	1/2	3/8	V2128
V6-412080-170*	1.1 to 5.4	1.0 to 5.5	1.3 to 6.7	3/4	1/2	V62101
V6-414080-170*	1.1 to 5.4	1.0 to 5.5	1.3 to 6.7	7/8	1/2	V62103
V6-414120-170*	1.1 to 5.4		1.3 to 6.8	7/8	3/4	
V10-414080-170*	3.2 to 9.4	3.0 to 8.5	3.8 to 10.1	7/8	1/2	V102500
V10-414120-170*	3.2 to 9.4	3.0 to 8.5	3.8 to 10.1	7/8	3/4	V102750
V10-418140-170*	3.2 to 10.7	3.0 to 9.5	3.8 to 11.7	1 1/8	7/8	V102762
V10-414140-470*	3.2 to 9.4	3.0 to 8.5	3.8 to 10.1	7/8	7/8	V102765


V1-406060-270

LOOPBACK PARALLEL

RANCO

Part No.	Capacity (Tons) R407C	R22	R410A	Connection Size (In.) Suction	High	Replaces
V1-406060-270*	.4 to 1.3	.4 to 1.0	.5 to 1.7	3/8	3/8	V1158
V2-408060-270*	0.8 to 1.8	.75 to 2.0	.9 to 2.2	1/2	3/8	V2100

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OPPOSED OFFSET PARALLEL



V12-4220T0-270

RANCO

Part No.	Capacity (Tons)			Connection Size (In.)		Replaces
	R407C	R22	R410A	Suction	High	
V12-4220T0-270*	6.5 to 13.3	6.0 to 14.0	6.3 to 16.8	1 3/8	1 1/8 OD	V12-321

OPPOSED OFFSET FLARE



V3-410080-770

RANCO

Part No.	Capacity (Tons)			Connection Size (In.)		Replaces
	R407C	R22	R410A	Suction	High	
V3-410080-770*	1.1 to 2.7	1.0 to 2.8	1.3 to 3.1	5/8	1/2	V31003
V3-412080-870*	1.1 to 2.8	1.0 to 3.0	1.3 to 3.5	3/4	1/2	V31004

OPPOSED FLARE



V2-4100F0-370

RANCO

Part No.	Capacity (Tons)			Connection Size (In.)		Replaces
	R407C	R22	R410A	Suction	High	
V2-4100F0-370*	1.1 to 2.0	1.0 to 2.5	1.3 to 2.5	5/8	3/8 OD	V2179

LOOPBACK FLARE



V2-410060-470

RANCO

Part No.	Capacity (Tons)			Connection Size (In.)		Replaces
	R407C	R22	R410A	Suction	High	
V2-410060-470*	1.1 to 2.0	1.0 to 2.5	1.3 to 2.5	5/8	3/8	V2150

COIL, LDK SERIES



LDK-110000-070

Type LDK solenoid coils for use with the current Vx-xxxxxx-xxx series "Generation 4", Ranco heat pump reversing valves are epoxy encapsulated, continuous duty, moisture-resistant magnetic coils designed to operate the pilot valve controlling the reversing valves. Included with the solenoid coil is a wiring harness.

RANCO

Part No.	Voltage	Color
LDK-110000-070	24	Red
LDK-310000-070	120	Black
LDK-410000-070	240	Green
LDK-510000-070	277	Blue

HYDRONIC CONTROL, TEMPERATURE

AQUASTAT®



L6006A1145

Immersion-type controllers for limiting or regulating temperatures of liquids in boilers or tanks.

- Contact rating: 5.1 F.L. Amp 240 Vac

resideo

Part No.	Application	Switch	Temperature (°F)	Differential	Includes
L6006A1145	Circulator, High/Low Limit	SPDT	100 to 240	5 to 30°F	Stop factory-set at 240 F (116 C); Heat-conductive compound
L6006C1018	Circulator, High/Low Limit	SPDT	65 to 200	5 to 30°F	Stop factory-set at 200 F (93 C)

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HYDRONIC CONTROL, TEMPERATURE



L4008A1015

AQUASTAT® REMOTE BULB

For limiting or regulating temperature of liquids in boilers or tanks. Can also sense outside or duct air temperature.

- Contact rating: 5.1 F.L. Amps 240 Vac

resideo

Part No.	Application	Switch	Temperature (°F)	Differential	Includes
L4008A1015	High/Low Limit	SPST, Open Rise	100 to 240	5 to 30°F	5 1/2 ft (1.7 m) capillary
L4008A1130	High/Low Limit	SPST, Open Rise	130 to 270	5 to 30°F	10 ft Capillary, 3.04 m Capillary
L4008B1013	Circulator	SPST, Open Rise	100 to 240	5 to 30°F	5 1/2 ft Capillary, 1.7 m Capillary
L4008E1156	High Limit	SPST, Open Rise	130 to 270	Manual Reset	5 1/2 ft (1.7 m) capillary; Stop factory-set at 250 F (121 C); Heat-conductive compound
L6008A1192	Circulator, Low Limit	SPDT	100 to 240	5 to 30°F	66 in. capillary; Stop factory-set at 240 F (116 C)



L4081A1023

AQUASTAT®, MULTIPLE

High limit, low limit and/or circulator controllers used to regulate boiler water temperature in gas- or oil-fired hydronic heating systems.

- Contact rating: 5.1 amps 240 Vac
- Operating range:
- High limit: 130-240°F
- Differential: 10°F, fixed
- Low limit/Circulator: 110-220°F
- Differential: 10-25°F

resideo

Part No.	Application	Switch
L4081A1023	High/Low Limit	2-SPST



L8100B1128

AQUASTAT®, MULTIPLE, L8100 SERIES

Immersion-type controller for regulating and limiting the tank temperature in water heaters.

- Regulates temperature and provides energy cutoff (ECO) action on a temperature rise past the set point. Includes a second sensing element that senses average water temperature to minimize stacking.
- Operating range: 100-180°F
- Differential controller: 5°F, fixed
- ECO: 20°F, fixed
- Contact rating: 2 amps 24V

resideo

Part No.	Switch	Differential	Capillary Length	Operating Range (psi)
L8100B1128	SPST, Opens on Rise	5°F, fixed	39"	100-180



L8124A1007

AQUASTAT®, TRIPLE

Immersion-type controllers that combine high limit protection with low limit and circulator control in forced hydronic heating systems, including domestic hot water service.

- Provides multizone control by using a separate circulator and R845 Relay for each zone
- Units with well adapter less well
- Operating range:
  High limit: 130-240°F
  Differential: 10°F, fixed
  Low limit/Circulator: 110-220°F
  Differential: 10-25°F
- Contact rating—Circulator: 3.7 F.L. Amp
  240 Vac

resideo

Part No.	Burner Voltage	Mounting Code	Insulation Depth (In.)	Includes	High Limit (°F)
L8124A1007	120	Vertical	1 1/2	3" Insertion Well	130-240
L8124A1015	120	Vertical	3	3 in. insertion well and ground screw	130-240
L8124E1016	24	Vertical/ Horizontal	1 1/2	Universal Element, Well Adapter	130-240
L8124G1020	120	Vertical/ Horizontal	1 1/2	Universal Element, Well Adapter	130-240
L8124L1011	120	Vertical/ Horizontal	3	Universal Element, Well Adapter	130-240

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


L7224U1002

ELECTRONIC OIL AQUASTAT® CONTROLLER

- 120 Vac Oil Electronic Aquastat® Controller with Enviracom communication and troubleshooting Leds.
- Provides electronic temperature sensing in a UL limit-rated controller with a single sensing probe.
- The L7224U controls the circulator, oil burner and boiler temperature.
- It replaces the L8124A, L8124C, L7124U, L7148A, L7248A,C, L7224A,C, and L8148A Controllers.
- The Aquastat Controller is intended for use in residential-type applications.
- It provides status and diagnostic information through an LED display combined with LED lights to enhance the diagnostic process.
- Operating range: High limit: 130—240°F; Low limit: 110—220°F

resideo

		Dimensions (In.)			
Part No.	Differential	H	W	D	Mounting
L7224U1002	High Limit: 5 to 20 °F adj.	4.60	4.50	2 5/8	Well mount, horizontal or vertical position, or flush mounted remote from the well


W8735S1000

AQUARESET™ KITS

Outdoor Reset Kit

- Simple installation with three wire connection to the Aquastat
- Compatible with any L7224/L7248 Outdoor Reset Ready Aquastat, S9361A Integrated Boiler Control, and R7910 SOLA Controls

Domestic Hot Water Kit

- Compatible with Honeywell AquaReset™ wired and wireless kits
- Ensures domestic hot water needs are met when combining AquaReset™ with an indirect DHW tank.
- Easy three-wire installation to AquaReset™ module

Alarm Module

- Works with any alarm generating EnviraCOM™ enabled control
- Local LED alarm present and communication active indication
- Simple low-voltage, 5-wire installation

resideo

	Dimensions (In.)		
Part No.	H	W	Description
W8735S1000	1.00	1.00	AquaReset™ Outdoor Reset Module
W8735S3000	1.00	1.00	EnviraCOM™ Alarm Module


L8148A1017

AQUASTAT® RELAY

Immersion-type controllers that combine high limit protection with switching relay control of burner and circulator motors.

- Horizontal and vertical mounting
- Includes well adapter, heat conductive compound
- Contact rating is circulator FLA, 240V

resideo

	Dimensions (In.)				
Part No.	H	W	Mounting Code	Burner Circuit	High Limit (°F)
L8148A1017	5.00	5.00	Horizontal	Line Voltage	120-240
L8148E1265	5.00	5.00	Vertical	Low Voltage	180-240
L8148E1299	5.00	5.00	Vertical	Low Voltage	120-240
L8148J1009	5.00	5.00	Horizontal and vertical	Low, mV Voltage	120-240


A19ABC11

HOT WATER, WELL IMMERSION

- Hot water control for hot water boilers
- Furnished with well assembly for 1/2" NPT

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential	FLA	Capillary Length	Max. Bulb Temperature (°F)
A19ABC11*[1]	SPDT	100 to 240	6 to 24°F	6.0 @ 240 Vac	Flush	250
A19ABC12*	SPDT	100 to 240	6 to 24°F	6.0 @ 240 Vac	8'	290

1 Pictured


A19DAC1

HOT WATER, STRAP-ON

- Strap-on, surface type hot water control
- Automatic changeover control for fan coil systems

Johnson Controls

Part No.	Switch	Temperature (°F)	Differential	FLA	Max. Bulb Temperature (°F)
A19DAC1*	SPDT	100 to 240	10, Fixed	6.0 @ 240 Vac	250

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HYDRONIC CONTROL, TEMPERATURE



11272

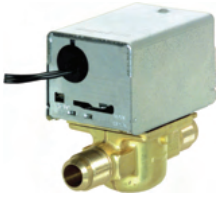
HOT WATER, STRAP ON

- Attach directly to surface of pipe
- Strap-on eliminates need for tapping of boiler or draining system
- Sensing element has twice the contact area of competitve models

EMERSON

Part No.	Switch	Temperature (°F)	Differential	FLA
11272	SPDT	100 to 240	10°F, Fixed	3.7 @ 240 Vac

VALVE, HYDRONIC CONTROL



V4043A1002

ZONE, LINE VOLTAGE

On/off and diverting line voltage valves consist of an actuator motor and valve assembly for controlling the flow of hot or chilled water and some models for steam.

- Manual opener (on all models, except straight-through, normally open valves) for valve operation on power failure; valve returns to automatic position when power is restored
- All models may be installed without disassembling the valve
- Complete powerhead may be removed or replaced without breaking line connections or draining the system

Honeywell Home

					Connection	
Part No.	Pattern	De-Energized Position	Voltage	Flow (Cv)	Size (In.)	Type
V4043A1002	Straight-Thru	Normally Closed	120	3.5	1/2	Flare
V4043A1010	Straight-Thru	Normally Closed	120	3.5	1/2	Sweat
V4043A1259	Straight-Thru	Normally Closed	120	8.0	3/4	Sweat
V4043A1697	Straight-Thru	Normally Closed	120	10.0	1	NPT
V4043B1018	Straight-Thru	Normally Open	120	3.5	1/2	Sweat
V4043E1003[1]	Straight-Thru	Normally Closed	120	3.5	1/2	Sweat
V4044A1019	2-Position Diverting	Port A Normally Closed	120	4.0	1/2	Sweat
V4044A1191	2-Position Diverting	Port A Normally Closed	120	7.0	3/4	Sweat

1 Steam only



V8043A1011

ZONE, LOW VOLTAGE

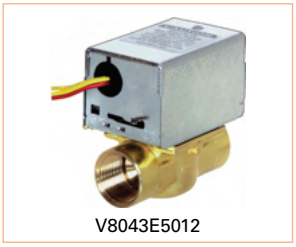
Control voltage: 24 Vac.

Honeywell Home

Part No.	Pattern	De-Energized Position	Flow (Cv)	Connection Size (In.)	End Switch
V8043A1011	Straight-Thru	Normally Closed	3.5	1/2 Sweat	No
V8043A1029	Straight-Thru	Normally Closed	3.5	3/4 Sweat	No
V8043B1076	Straight-Thru	Normally Open	3.5	3/4 NPT	No
V8043E1004	Straight-Thru	Normally Closed	3.5	1/2 Sweat	Yes
V8043E1012	Straight-Thru	Normally Closed	3.5	3/4 Sweat	Yes
V8043E1020	Straight-Thru	Normally Closed	3.5	1 Sweat	Yes
V8043E1061	Straight-Thru	Normally Closed	8.0	3/4 Sweat	Yes
V8043E1145	Straight-Thru	Normally Closed	3.5	3/4 NPT	Yes
V8043F1028	Straight-Thru	Normally Closed	3.5	1/2 Sweat	Yes
V8043F1036	Straight-Thru	Normally Closed	3.5	3/4 Sweat	Yes
V8043F1051	Straight-Thru	Normally Closed	3.5	1 Sweat	Yes
V8043J1029[1]	Straight-Thru	Normally Open	3.5	1/2 NPT	No
V8043J1037[1]	Straight-Thru	Normally Open	3.5	3/4 NPT	No
V8044A1002	2-Position Diverting	Port A Normally Closed	4.0	1/2 Flare	No
V8044A1010	2-Position Diverting	Port A Normally Closed	4.0	1/2 Sweat	No
V8044A1044	2-Position Diverting	Port A Normally Closed	7.0	3/4 Sweat	No
V8044A1135	2-Position Diverting	Port A Normally Closed	4.0	1/2 NPT	No
V8044E1003	2-Position Diverting	Port A Normally Closed	4.0	1/2 Sweat	Yes
V8044E1011	2-Position Diverting	Port A Normally Closed	7.0	3/4 Sweat	Yes

1 Steam only

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


V8043E5012

ZONE, LOW VOLTAGE

- Control voltage: 24 Vac.
- Install without disassembly, compact construction for easy installation
- Manual opener

Honeywell Home

Part No.	Pattern	De-Energized Position	Flow (Cv)	Connection Size (In.)	End Switch
V8043E5012	Straight-Thru	Normally Closed	3.5	3/4 Sweat	Yes
V8043E5020	Straight-Thru	Normally Closed	3.5	1 Sweat	Yes
V8043E1137					


V5852A2007

2 WAY, SWEAT

Honeywell

Part No.	Flow (Cv)	Connection Nom. Size (In.)	Connection Type	Use with
V5852A2007	0.19	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2015	0.29	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2023	0.47	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2031	0.74	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2049	1.2	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2056	1.9	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2064	2.9	3/4	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2072	4.9	3/4	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958


V5862A2005

2 WAY, CARTRIDGE GLOBE, FPT

Honeywell

Part No.	Flow (Cv)	Connection Nom. Size (In.)	Connection Type	Use with
V5862A2005	0.19	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2013	0.29	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2021	0.47	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2039	0.74	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2047	1.2	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2054	1.9	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A2062	2.9	3/4	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5862A3003	5.5	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5862A3011	7.8	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5862A3029	11.0	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5862A3037	18.0	1 1/4	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5862A3045	25.0	1 1/2	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007

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VALVE, HYDRONIC CONTROL



V5853A2006

3 WAY, SWEAT

Honeywell

Part No.	Flow (Cv)	Connection: Nom. Size (In.)	Connection: Type	Use with
V5853A2006	0.29	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2014	0.47	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2022	0.74	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2030	1.2	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2048	1.9	1/2	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2055	2.9	3/4	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2063	4.9	3/4	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A1016	4.9	3/4	Sweat	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001



V5863A2004

3 WAY, FPT

Honeywell

Part No.	Flow (Cv)	Connection: Nom. Size (In.)	Connection: Type	Use with
V5863A2004	0.29	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2012	0.47	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2020	0.74	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2038	1.2	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2046	1.9	1/2	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2053	2.9	3/4	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2061	4.9	3/4	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A1006	2.9	3/4	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001
V5863A1014	4.9	3/4	FPT	Actuators M6410A1029; M7410F1000; M6435A1004; M7435F1001
V5863A3002	5.5	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3010	7.8	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3028	11.0	1	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3036	18.0	1 1/4	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3044	25.0	1 1/2	FPT	Actuators M6410A3017; M7410F3006; M6435A3000; M7435F3007

Continued on next page



M6410A1029

CARTRIDGE GLOBE VALVE ACTUATOR, NON-SPRING RETURN

Small individual room control (IRC) electric actuators provide floating or modulating control of V5852, V5862 two-way or V5853, V5863 three-way valves.

- Suitable for Excel/IRC system or other controllers providing specified signals
- Magnetic coupling for torque limitation independent of voltage supply and self-adjustment of the closeoff port
- Power supply: 24 Vac
- Timing: 125 seconds

Honeywell

Part No.	Control Input	Stem Force (Lbf)	Comments	Use with
M6410A1029	SPDT Floating	40.50	UL94-5V Plenum Rated	1/2, 3/4" Valves
M6410A3017	SPDT Floating	67.50	UL94-5V Plenum Rated	1 to 1 1/2" Valves
M7410F1000	0-10 Vdc, 2-10 Vdc	40.50	DA/RA	1/2, 3/4" Valves
M7410F3006	0-10 Vdc, 2-10 Vdc	67.50	DA/RA	1 to 1 1/2" Valves

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


M6435A1004

CARTRIDGE GLOBE VALVE ACTUATOR, SPRING RETURN

Small Individual Room Control (IRC) Electric Actuators provide floating or modulating control of V5852, V5862 two-way or V5853, V5863 three-way valves.

- Suitable for Excel/IRC system or other controllers providing specified signals.
- Magnetic coupling for torque limitation independent of voltage supply and self-adjustment of the close-off port.
- No mounting tools required.
- Small size allows installation in limited space of fan coil units, induction units, and small reheaters or recoolers.
- Visual position indication (red pin).
- Spring return; operator retracts up on failure

Honeywell

Part No.	Control Signal	Feed-back	Stem Force (Lbf)	Use with
M6435A1004	Floating, SPDT	No	40.50	1/2 in. and 3/4 in. V58XX Cartridge Globe Valves
M7435F1001	0-10 or 2-10 Vdc Modulating	Yes	40.50	1/2 in. and 3/4 in. V58XX Cartridge Globe Valves
M7435F3007	0-10 or 2-10 Vdc Modulating	Yes	90	1 to 1 1/2 in. V58XX Cartridge Globe Valves


VCZAA1100

2-WAY, CARTRIDGE CAGE, WATER

Honeywell Home

Part No.	Nominal Size (In.)	Flow (Cv)	Con-nection Type	Use with
VCZAA1100	1/2	3.2	Sweat	On-Off VC Actuators
VCZAA3100	1/2	3.5	Sweat	VC6830/VC6831/VC6834, VC6930/ VC6931/VC6934, VC7930/VC7931/ VC7934,
VCZBB1100	1/2	3.2	FPT	On-Off VC Actuators
VCZAL1100	3/4	4.7	FPT	On-Off VC Actuators
VCZAM1100	3/4	4.6	Sweat	On-Off VC Actuators
VCZAR1100	1	6.6	FPT	VC actuators, On-Off Type
VCZAS1100	1	6.6	Sweat	VC actuators, On-Off Type


VCZNB6100

3-WAY, CARTRIDGE CAGE, WATER

Honeywell Home

Part No.	Nominal Size (In.)	Flow (Cv)	Connec-tion Type	Use with
VCZNB6100	1/2	3.7	FPT	On-Off 2-position VC Actuators
VCZMA6100	1/2	3.8	Sweat	On-Off 2-position VC Actuators
VCZMK6100	3/4	6.6	FPT	VC actuators, 2-position, On-Off Type
VCZML6100	3/4	5.9	Sweat	On-Off 2-position VC Actuators
VCZMR6100	1	8.6	FPT	On-Off 2-position VC Actuators
VCZNE6100	1 1/4	9.0	Sweat	On-Off 2-position VC Actuators


VC8114ZZ11

ACTUATOR

- Use with VCZXX1100 and VCZXX6100 valves

Honeywell Home

Part No.	Voltage	Timing	Control Type
VC8114ZZ11	24	6 Sec.	2-Wire
VC8111ZZ11	24	6 Sec.	2-Wire
VC8714ZZ11	24	6 Sec.	2-Wire + Com
VC4011ZZ11	120	6 Sec.	2-Wire + Com
VC6934ZZ11	24	120 Sec.	3-Wire
VC7934ZZ11	24	120 Sec.	3-Wire


1361102

2 WAY, ZONE, 2-WIRE

EMERSON

Part No.	Nominal Tube Size (In.)	Flow (Cv)
1361102	3/4	23.5
1361103	1	37.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, HYDRONIC CONTROL

2 WAY, ZONE, 3-WIRE



1311102

EMERSON

Part No.	Nominal Tube Size (In.)	Flow (Cv)
1311102	3/4	23.5
1311103	1	37.0
1311104	1 1/4	42.2

MOTOR, REPLACEMENT



30A118A

- Replacement motor for C Series classic zone valve

Schneider Electric t.a.c Erie

Part No.	Voltage
30A118A	24
30A118V	208-240/1
30118B	120

ACTUATOR, 2 POSITION, VT SERIES



AG13A020

Spring return actuators for VT2xxx and VT3xxx series valves.

Schneider Electric t.a.c Erie

Part No.	Application	Voltage
AG13A020	Normally Closed	24
AG13A02A	Normally Closed (End Switch)	24
AG13B020	Normally Closed	120
AG13T020	Normally Closed	277
AG13U020	Normally Closed	208-240/1
AG23A020	Normally Open	24
AG23B020	Normally Open	120
AG23D020	Normally Open	208

2 WAY, ZONE



VT2212

Schneider Electric t.a.c Erie

	Connection		
Part No.	Size (In.)	Type	Flow (Cv)
VT2212	1/2	Sweat	2.5
VT2213	1/2	Sweat	3.5
VT2222	1/2	FPT	2.5
VT2223	1/2	FPT	3.5
VT2313	3/4	Sweat	3.5
VT2315	3/4	Sweat	5.0
VT2317	3/4	Sweat	7.0
VT2323	3/4	FPT	3.5
VT2325	3/4	FPT	5.0
VT2327	3/4	FPT	7.0
VT2415	1	Sweat	5.0
VT2417	1	Sweat	7.0
VT2427	1	FPT	8.0

3 WAY, ZONE



VT3212

Schneider Electric t.a.c Erie

	Connection		
Part No.	Size (In.)	Type	Flow (Cv)
VT3212	1/2	Sweat	3.0
VT3213	1/2	Sweat	4.0
VT3222	1/2	FPT	3.0
VT3223	1/2	FPT	4.0
VT3313	3/4	Sweat	4.0
VT3315	3/4	Sweat	5.0
VT3317	3/4	Sweat	7.0
VT3323	3/4	FPT	4.0
VT3325	3/4	FPT	5.0
VT3327	3/4	FPT	7.0
VT3342	3/4	IFL	3.0
VT3343	3/4	IFL	4.0
VT3415	1	Sweat	5.0
VT3417	1	Sweat	7.0
VT3427	1	FPT	7.5

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AP13A000

ACTUATOR, MODULATING, VM SERIES

Spring return actuators for VM2xxx and VM3xxx series valves.

- 0 to 10 Vdc or 4 to 20 mA output.
- Magnetic clutch to maximize motor life and gear train
- Manual overide
- Position indicator

Part No.	Application	Voltage
AP13A000	Spring Return, Normally Closed	24
AP23A000	Spring Return, Normally Open	24
AP33A000	Non Spring Return	24


VM2213

2 WAY, ZONE, MODULATING

	Connection		
Part No.	Size (In.)	Type	Flow (Cv)
VM2213	1/2	Sweat	4.0
VM2223	1/2	FPT	4.0
VM2313	3/4	Sweat	4.0
VM2323	3/4	FPT	4.0


VM3213

3 WAY, ZONE, MODULATING

	Connection		
Part No.	Size (In.)	Type	Flow (Cv)
VM3213	1/2	Sweat	4.0
VM3223	1/2	FPT	4.0
VM3313	3/4	Sweat	4.0
VM3427	1	FPT	7.0
VM3323	3/4	FPT	4.0


ZONE24NC

ZONE VALVE ACTUATOR

Actuator designed to work with Belimo's Zone Valves.

- On/Off diverting control
- Manual overide
- Electrical connection: 6" wire lead 120 V; 18" wire lead 24 V

Part No.	Application	Voltage
ZONE24NC*	Normally Closed	24
ZONE24NCS*	Normally Closed, with Auxiliary Switch	24
ZONE24NOS*	Normally Open, with Auxiliary Switch	24
ZONE120NC*	Normally Closed	120
ZONE120NCS*	Normally Closed, with Auxiliary Switch	120
ZONE120NOS*	Normally Open, with Auxiliary Switch	120


ZONE215S25

2 WAY, ZONE

- Flow characteristics: on/off
- Chilled or hot water, 50% glycol
- Pressure rating: 300 Psi

Part No.	Nominal Size (In.)	Connection Type	Flow (Cv)
ZONE215S25*	1/2	Sweat	2.5
ZONE215N25*	1/2	FPT	2.5
ZONE215N35*	1/2	FPT	3.5
ZONE220S35*	3/4	Sweat	3.5
ZONE220S50*	3/4	Sweat	5.0
ZONE220N35*	3/4	FPT	3.5
ZONE220N50*	3/4	FPT	5.0
ZONE225S80*	1	Sweat	8.0
ZONE225N80*	1	FPT	8.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, HYDRONIC CONTROL


ZONE315S25

3 WAY, ZONE

- Flow characteristics: on/off, diverting
- Chilled or hot water, 50% glycol
- Pressure rating: 300 Psi

BELIMO

Part No.	Nominal Size (In.)	Connection Type	Flow (Cv)
ZONE315S25*	1/2	Sweat	2.5
ZONE315S35*	1/2	Sweat	3.5
ZONE315N25*	1/2	FPT	2.5
ZONE315N35*	1/2	FPT	3.5
ZONE320S35*	3/4	Sweat	3.5
ZONE320S50*	3/4	Sweat	5.0
ZONE320N35*	3/4	FPT	3.5
ZONE320N50*	3/4	FPT	5.0
ZONE325S80*	1	Sweat	8.0
ZONE325N80*	1	FPT	8.0


Z050C21

ZONE SENTRY® ZONE VALVE, NORMALLY CLOSED, 2 WAY

The Taco Zone Sentry® Zone Valve enhances the overall performance of any zone valve system. The unique patented technology in the Zone Sentry utilizes a microcircuit based logic to control a gear driven electronic actuator which drives a ball valve based body design. It can be used in a wide variety of heating and cooling applications, primarily designed for use with fan coils, radiators, convectors, air handlers, heat pumps and radiant applications. Zone Sentry® can be installed in any direction, in any orientation. The operator can be mounted to the valve body in either direction great for those tight baseboard jobs. Snap-in quick connects on the back of the valve make for a simple, secure and fast wiring hook-up. A green LED light shows full functionality of the valve's operation and thermostat status. Under a no power situation the manual override button located on the top of the valve allows the ball to be rotated up to 90° and is also marked with a slot to indicate the position of the valve.

Taco

Part No.	Nominal Size (In.)	Length (In.)	Flow (Cv)
Z050C21*	1/2	3.00	4.9
Z075C21	3/4	3.00	10.3
Z100C21*	1	3.00	8.9


570

ZONE VALVE

Taco zone valves permit accurate temperature control of individual rooms or groups of rooms in residences or commercial buildings which are heated or cooled hydronically. Beryllium copper metal bellows separate system water from the atmosphere for positive and leakproof operation. Exclusive heat motor functions silently. Saves energy; heat motor is not constantly energized while the valve is open.

- 555050: replacement actuator for all valves

Taco

Part No.	Nominal Size (In.)	Length (In.)
570	1/2	3 1/8
571	3/4	3 3/8
572	1	3 5/8
573	1 1/4	3 7/8

HYDRONIC CONTROL


PC700

BOILER RESET CONTROL

Microprocessor-based control designed to regulate the supply water temperature from a single boiler based on the outdoor temperature. Standard functions include warm weather shut down, minimum boiler supply temperature setting, and a starting water temperature setting.

- Power supply: 24 VAC 3 VA (powered by -EXP control)
- Relays: 24 V (ac) 5A, pilot duty, 240 VA

Taco

Part No.	Description
PC700	Add-On Power Control

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



SR502

ZONE VALVE

Taco switching relays combine clearly labeled PC board layouts with advanced features that allow for total system customization. External indicator lights provide instant diagnostic feedback, making a snap of service calls or new installation start-ups. All switching relays are UL and CSA listed, use standard ice cube replaceable relays and are compatible with conventional and programmable thermostats.

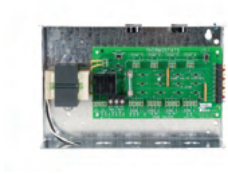
Features:

- External Indicator Lights
- Switchable Priority
- Simplified Wiring
- Fully Enclosed Snap-Out Relays
- Fuse Protected
- Isolated End Switch
- Contractor Friendly PC Board Layout
- Universal Thermostat Compatibility
- 24 Volt Power Input or Output Terminal
- Extended 3 Year Warranty

Additional -EXP Features:

- Plug-in PowerPort Card Slots
- Add-on Power Control Plug
- Expandable to 20 Zones
- Interface with -EXP Zone Valve Controls

Part No.	Contact Rating (Amps)	Nb. of Zones
SR502	15 Amp	2 with Priority
SR503	15 Amp	3 with Priority
SR504EXP	20	4 with Priority, 3 Power Ports



ZVC403

ZONE VALVE CONTROL

Taco Zone Valve Controls work with two-, three-, or four-wire zone valves. Fully fuse protected, @ they also include two isolated end switches and a built-in priority switch. The contractor friendly PC board layout eliminates the problems caused by incorrect wiring and the unfinished look of conventional zone valve installations. The sturdy screw connections add additional reliability, while the external indicator lights provide instant diagnostic feedback, reducing installation time.

Features

- External Indicator Lights
- Switchable Priority
- Simplified Wiring
- Extra Set of Dry Contacts
- Contractor Friendly PC Board Layout
- Universal Thermostat Compatibility
- UL and CSA Approved
- Extended 3 Year Warranty

Additional -EXP features:

- Two Plug-In PowerPort Card Slots
- One Add-On Power Control Plug
- Expandable to 20 Zones
- Interface with -EXP Switching Relays

Part No.	Nb. of Zones	Tranformer VA	Length (In.)
ZVC403	3	40	10.75
ZVC404	4 with Priority	40	11.25
ZVC406EXP	6 with Priority, 2 Power Ports	80	12.50

SWITCHING RELAY



R8845U1003

UNIVERSAL

The R8845U Universal Switching Relay with 24V controller provides intermediate switching of line- and low-voltage devices from a line- or low-voltage controller.

- Replaceable, socketed relays
- Two troubleshooting LEDs
- Push-to-test button
- Relays can be used with external 24 Vac or 24 Vdc supply, line-voltage control, or with internal 24V transformer

Part No.	Description
R8845U1003	Switching Relay

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL BURNER CONTROL



R8182D1079

AQUASTAT, PRIMARY

Immersion type Aquastat® controller and oil burner primary control provides high limit and low limit/circulator control for oil-fired hydronic heating systems.

- Control range—High limit SPST: 130-240°F
  Differential: 10°F, fixed
  Low limit, circulator SPDT: 110-220°F
  Differential: 10-25°F
- 120 Vac

Honeywell Home

Part No.	Insulation Depth (In.)	Spud Size (In.)	Capillary Length	Includes
R8182D1079	1 1/2	3/4	None	Auxiliary ZC and ZR terminals may be used to provide circulator zone control through an R845A Switching Relay, Heat-conductive compound, vertical case.
R8182H1070	1 1/2	3/4	5′	Auxiliary ZC and ZR terminals may be used to provide circulator zone control through an R845A Switching Relay, Heat-conductive compound, Horizontal case



R7284U1004

ELECTRONIC DIGITAL OIL PRIMARY

The R7284 Electronic Oil Primary is a line voltage, safety rated, interrupted and intermittent ignition oil primary control for residential oil fired burners used in boilers, forced air furnaces and water heaters. Used with a cad cell flame sensor, it operates an oil burner, spark igniter, and optional oil valve. The control works with a low voltage and optional high voltage thermostat. The primary controls fuel oil, senses flame, controls ignition spark (either interrupted or intermittent) and notifies through the EnviraCOM™ bus a remote alarm circuit when in lockout. Can be used with both hydronic and forced air systems.

resideo

Part No.	Safety Timing (sec)	Contact Rating (Amps)	Diagnostics
R7284U1004	Settable 15, 30 or 45	3.7	2 Line LCD Display
R7284B1024	15	3.7	Using LED only



R8184G4009

PROTECTOR RELAY

Provides automatic, nonrecycling control of an intermittent ignition oil burner system.

- Controls oil burner, oil valve (if desired) and the ignition transformer in response to a call for heat
- Voltage: 120 Vac
- Includes LED lockout indication and manual trip safety switch for shutdown during servicing

resideo

Part No.	Safety Timing (sec)	Contact Rating (Amps)
R8184G4009	45	3.7
R8184G4066	15	5.0



R8184M1051

PROTECTORELAY™, LOW VOLTAGE

Operates the oil burner and oil valve (if desired) in response to a call for heat from a low voltage control circuit.

- Includes transformer
- Primary voltage: 120 Vac
- Secondary voltage: 26.5V
- Contacts: 3.7 F.L. Amp 240 Vac

resideo

Part No.	Safety Timing (sec)	Contact Rating (Amps)
R8184M1051	45	3.7 F.L. Amp 240 Vac



C554A1463

FLAME DETECTOR

Photoconductive flame sensing device for sequencing oil burner systems.

- On flame failure, the light sensitive cadmium sulfide cell, in conjunction with flame sensing circuitry, causes the Protecto-relay control to shutdown the main oil burner
- Use with oil primary controls, i.e.: R4166, R4184, R8182, R8184, R8185 and R8404

resideo

Part No.	Description
C554A1463	Flame Detector, 5 Bracket Styles

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLAME CONTROL, 7800 SERIES


RM7800G1018

PROGRAMMER

Microprocessor-based integrated burner control for automatically fired gas, oil, coal or combination fuel single burner applications. Provides safety, functional capability and features beyond conventional controls.

- Functions include automatic burner sequencing, flame supervision, system status indication, system or self-diagnostics and trouble-shooting.
- PURGE determined by which ST7800A Purge Timer Card is selected.
- STANDBY and RUN can be an infinite time period.
- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

			Establishing Period		
Part No.	Replaces	Fre-quency	Pilot Flame	Main Flame	Initiate Time (Sec.)
RM7800G1018[1]	BC7000L; PM720G	60	4 or 10 sec.	10, 15 or Intermittent	10
RM7800L1012[1]	BC7000L; PM720L	50/60	4 or 10 sec.	10, 15 or Intermittent	10
RM7800M1011[1]	BC7000L; PM720M	60	4 or 10 sec.	10 sec or Intermittent	10
RM7840E1016[2]		50/60	4 or 10 sec.	10 or 15 sec.	10
RM7840G1014[3]	R4140G	60	4 or 10 sec.	10, 15 or Intermittent	10
RM7840L1018[3]	R4140L	50/60	4 or 10 sec.	10, 15 or Intermittent	10
RM7840M1017[3]	R4140M	60	4 or 10 sec.	10 sec. or Intermittent	10

1 Control w/Display 2 Energy Saving Prepurge 3 Relay Module, No Display


R7140G1000

PROGRAMMER

Microprocessor-based integrated burner control for automatically fired gas, oil, coal or combination fuel single burner applications. Provides safety, functional capability and features beyond conventional controls.

Uses existing subbase for easier installation

- Functions include automatic burner sequencing, flame supervision, system status indication, system or self-diagnostics and trouble-shooting.
- Requires ST7800 purge timer and appropriate R787xx amplifier to complete the replacement
- Purge time determined by card selected

Honeywell

			Establishing Period	
Part No.	Pilot Type	Replaces	Pilot Flame	Main Flame
R7140G1000	Interrupted or Intermittent	R4140G w/ preignition interlocks	4 or 10 sec.	10, 15, 30 sec. or int.


RM7890A1015

AUTOMATIC PRIMARY RELAY MODULE

Microprocessor-based integrated full-function primary burner control for automatically fired gas, oil, or combination fuel single burner applications. Provides level of safety, functional capability and features beyond conventional controls.

- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

	Establish-ing Period		
Part No.	Pilot Flame	Initiate Time (Sec.)	Comments
RM7890A1015	4, 10, 30	10	Replaces RA890F, G, H
RM7890A1031	30 Fixed	10	Replaces RA890F, G, H
RM7890A1056	4, 10	10	Includes Programmable Valve Proving Switch Check Feature and Blinking LED Fault Annunciation

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLAME CONTROL, 7800 SERIES


RM7895A1014

FULL FUNCTION PRIMARY

Microprocessor-based integrated full-function primary burner control for automatically fired gas, oil, or combination fuel single burner applications. Provides level of safety, functional capability and features beyond conventional controls.

- PURGE determined by which ST7800A Purge Timer Card is selected.
- STANDBY and RUN can be an infinite time period.
- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

		Establishing Period			
Part No.	Replaces	Pilot Flame	Main Flame	Main Valve (DMV)	Initiate Time (Sec.)
RM7895A1014	R7795A, B	4 or 10 sec.	No	No	10
RM7895B1013	R7795E, F	Intermittent	No	No	10
RM7895C1012	R7795C, D	4 or 10 sec.	10 sec.	Yes	10


RM7896A1012

ON-OFF PRIMARY WITH PRE- AND POST-PURGE

Microprocessor-based integrated full-function primary burner control for automatically fired gas, oil, or combination fuel single burner applications. Provides level of safety, functional capability and features beyond conventional controls.

- PostPurge: 15 Sec
- STANDBY and RUN can be an infinite time period.

Honeywell

		Establishing Period		
Part No.	Type	Pilot Flame	Main Flame	Main Valve (DMV)
RM7896A1012	Intermittent	4 or 10 sec.	Intermittent	No
RM7896C1010	Interrupted	4 or 10 sec.	10 Sec	Yes


RM7897A1002

ON-OFF PRIMARY WITH SHUTTER DRIVE AND PROGRAMMABLE POST PURGE

Microprocessor-based integrated full-function primary burner control for automatically fired gas, oil, or combination fuel single burner applications. Provides level of safety, functional capability and features beyond conventional controls.

- Includes blinking LED fault annunciation feature
- PostPurge Programmed with S7800A1142 Display (Not Provided)

Honeywell

		Establishing Period
Part No.	Type	Pilot Flame
RM7897A1002	Selectable	4 or 10 sec.


Q7800A1005

WIRING SUBBASE

Burner, panel or wall mount sub bases for 7800 Series relay modules and S7830A expanded annunciator.

- 22 terminals
- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

Part No.	Description
Q7800A1005	Universal—Panel Mount
Q7800B1003	Universal—Burner, Wall Mount
Q7800F1004	Adapter—RA890



S7800A1001

KEYBOARD DISPLAY

Provides current status of burner sequence, timing information, hold information and lockout information, as well as selectable or preemptive messages.

- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

Part No.	Description	Use with
S7800A1001	Display Module, English	RM7800, RM7840, RM7838
S7800A1142	Display Module for Valve Proving Setup, English	RM7800, RM7840, RM7838, RM7890, RM7897, RM7898

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



R7847A1025

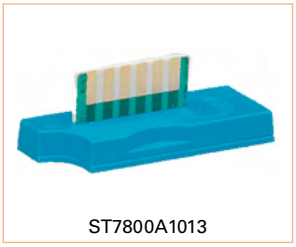
SIGNAL AMPLIFLIER, PLUG-IN

Solid state plug-in amplifiers that respond to flame detector inputs to indicate the presence of flame when used with 7800 Series relay modules.

- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

Part No.	Pilot Type	Flame Failure Response (sec.)	Type Fuel
R7847A1025	Rectification (Green)	0.8 or 1.0	Gas, Oil
R7847A1033	Rectification (Green)	2.0 or 3.0	Gas, Oil
R7849A1015	UV (Purple)	0.8 or 1.0	Gas, Oil
R7849A1023	UV (Purple)	2.0 or 3.0	Gas, Oil
R7851B1000	Optical (White), Ampli-Check	2.0 or 3.0	Gas, Oil, Coal
R7851B1018	Optical (White), Ampli-Check	0.8 or 1.0	Gas, Oil, Coal
R7852A1001	Infrared (Red/White)	2.0 or 3.0	Gas, Oil, Coal
R7861A1026	UV (Purple) Dynamic Self-Check	2.0 or 3.0	Gas, Oil, Coal



ST7800A1013

PURGE TIMER

Provides prepurge timing for select 7800 Series relay modules.

- Use with RM7800, RM7840, RM7895, RM7838 relay modules
- Only available in NJ / Eastern-Southern NY. Call 914-592-5555 to order.

Honeywell

Part No.	Prepurge Time (Sec.)
ST7800A1013	7
ST7800A1021	10
ST7800A1039	30
ST7800A1054	60
ST7800A1062	90

GAS/AIR PRESSURE SWITCH



C6097A3012

C6097 SERIES

Honeywell

Part No.	Pressure Range (psi)	Switch	Differential Pressure	Action
C6097A3012	1 - 20 in. wc	Manual Reset	Additive	Breaks NO to COM on fall
C6097A3038	12 - 60 in. wc	Manual Reset	Additive	Breaks NO to COM on fall
C6097A3053	1 - 20 in. wc	Auto Reset	0.3 - 0.6 in. wc	Breaks NO to COM on fall
C6097B3002	12 - 60 in. wc	Manual Reset	Subtractive	Breaks on rise
C6097B3028	1 - 20 in. wc	Manual Reset	Subtractive	Breaks on rise
C6097B3051	1 - 20 in. wc	Manual Reset	Subtractive	Breaks on rise

FLAME DETECTOR



C7027A1023

MINIPEEPER ULTRAVIOLET

Compact flame detector for use with flame safeguard controls with ultraviolet amplifiers.

- Mounts on a 1/2" sighting pipe by using an integral collar
- Lead wire length: 6'
- Ambient temperature: 0 to 215°F
- Ambient temperature for C7027A1031: -40 to 215°F

Honeywell

Part No.	Connects	Lead Length	Ambient Temperature
C7027A1023	Romex Connector, Low Temperature	6'	0 to 215°F
C7027A1031	1/2" Spud Connector	6'	-40 to 215°F
C7027A1072	1/2" Spud Connector (Included)	6'	-40 to 215°F
C7027A1049	Romex Connector	6'	0 to 215°F

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLAME DETECTOR



C7035A1031

COMPACT

Compact flame detector for use with flame safeguard controls with ultraviolet amplifiers.

- Only available in Long Island NY, West Chester County NY, New York City. Call 914-592-5555 to order.

Honeywell

Part No.	Lead Length	Ambient Temperature
C7035A1031	6′	-40 to 250°F
C7035A1080[1]	6′	-0 to 250°F

1 Includes 600F Leads

GAS PILOT



Q179A1001

FLAME RECTIFIER

Combination rectifying flame rod and pilot burner for use with suitable electronic relay on industrial or commercial gas burners or gas pilot ignited oil burners.

- Primary-aerated type burner is equipped with stainless steel fins to stabilize flame and provide correct flame rod area to ground area ratio for maximum flame current.

Honeywell

Part No.	Tip Style	Wing Span (In.)	Application
Q179A1001	I	4.0	Intermittent Ignition
Q179A1035	45° RH	4.0	Intermittent Ignition
Q179A1050	T	4.0	Intermittent Ignition
Q179A1076	45°Y	4.0	Intermittent Ignition
Q179A1092	45°T	4.0	Intermittent Ignition
Q179A1118	45° LH	4.0	Intermittent Ignition



H17BB1

AUTOMATIC SMALL APPLIANCE

The H17 is a replacement automatic pilot valve particularly adaptable to small appliances. Gas will flow to both main and pilot burners when reset button is depressed. Pilot gas taken from main line within control. The control shuts off both main and pilot gases.

BASO Gas Products LLC

Part No.	FPT (In.)	Connection Pilot (In.)	Capacity BTUH at 1" Delta P	Low Dropout (mA)
H17BB1	1/4	1/8-27 NPT	75000	50
H17CB3	3/8	1/8-27 NPT	125000	50
H17DB5	1/2	1/8-27 NPT	200000	50



L61LL1

SHUTOFF, L60 SERIES

The L61 and L62 Series BASO pilot switches are for use on all gas-fired, standing pilot equipment that requires main burner shutoff when the pilot is extinguished.

- L61LL1 and L62AA5 are not 100% shutoff (suitable for natural gas only)

BASO Gas Products LLC

Part No.	Reset	Shut-Off	Switch	Contact Rating (Amps)
L61LL1	Automatic	No	SPDT	4 A, 240 Vac
L62AA5	Manual	No	SPST	3 A, 250 Vac
L62GB3	Manual	Yes	SPST	4 A, 250 Vac

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



V4046C1005

SHUTOFF

Provides on/off control of natural, LP and manufactured gases to pilot burners in industrial and commercial applications.

Honeywell

Part No.	Pipe Size (In.)	Capacity (CFH)
V4046C1005	1/8 FPT	20
V4046C1047	1/4 FPT	55
V4046C1054	3/8 FPT	67
V8046C1006	1/8 FPT	20
V8046C1014	1/4 FPT	20
V8046C1022	1/4 FPT	55
V8046C1030	3/8 FPT	67



V4295A1106

SHUTOFF, NORMALLY CLOSED

V4295/V8295 solenoid gas valves control the flow of natural and LP (liquefied petroleum) gases and are suitable for use on furnaces, ovens, atmospheric burners, commercial water heaters, rooftop make-up air units, power burners and commercial/ industrial boilers.

- Body Material: Die cast aluminum
- Valve Timing: Open/Close less than 1 second; positive close off
- Ambient: -40° F to 145° F (-40° C to 60° C)

Honeywell

Part No.	Pipe Size (In.)	Capacity (CFH)	Coil Voltage
V4295A1106	1/2 FPT	210	120
V4295A1114	3/4 FPT	610	120
V4295A1122	1 FPT	825	120
V4295A1130	1 1/4 FPT	1950	120
V4295A1148	1 1/2 FPT	2270	120
V8295A1016	1/2 FPT	250	24 Vac
V8295A1024	3/4 FPT	645	24 Vac
V8295A1032	1 FPT	790	24 Vac
V8295A1040	1 1/4 FPT	1450	24 Vac
V8295A1057	1 1/2 FPT	2190	24 Vac



H15DA3

AUTOMATIC

The H15 Series control shuts off both main and pilot gas. Pilot gas is taken either from within the control or from the main line upsteam of the valve. Gas will pass only to the pilot burner while the reset button is depressed.

Some models include a rotor pilot B valve with an adjustable stop to maintain a constant open position.

BASO Gas Products LLC

Part No.	Connection Size (In.)	Connection Pilot (In.)	Capacity BTUH at 1" Delta P	Pilot Gas Flow
H15DA3[1]	3/4	1/8-27 NPT	402000	Internal
H15DH3[2]	3/4	1/4 cc	402000	Internal

1 Packaged with reducer bushings 2 With rotor pilot "B" valve



V88A1659

DIAPHRAGM

Solenoid-operated diaphragm valves provide slow opening and fast closing for controlling fuel gases.

- Use with LP, natural or manufactured gases

Honeywell

Part No.	Pipe Size (In.)	Capacity (CFH)	Max. Sustained Pressure	Voltage
V88A1659	3/4 FPT	668	1/2	24
V88A1667	3/4 FPT	668	1	24
V88A1675	1 FPT	1021	1	24
V48A2334	1 FPT	1021	1	120
V88A1683	1 1/4 FPT	2100	1	24
V48A2177	1 1/4 FPT	2100	1/2	120
V88A1634	1 1/2 FPT	2400	1/2	24
V88A1691	1 1/2 FPT	2400	1	24
V88A1709	2 FPT	4178	1	24
V88A1717	2 1/2 FPT	5100	1	24

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVE, GAS CONTROL


V4055A1007

ACTUATOR, ON/OFF

Use with V5055 valve to control gas supply to commercial and industrial burners. V4055D on/off actuator includes Factory Mutual Proof of Closure and Underwriters Laboratories, Inc. Valve Seal Overtravel Interlock switch. Meets Factory Mutual and Underwriters Laboratories, Inc. requirements when used with V5055C valve bodies. Low pressure.

- Supply voltage: 120 Vac

Honeywell

Part No.	Opening Time (Sec.)	Damper Shaft	Internal Auxiliary Switch	Opening Time (Sec.)
V4055A1007	26	No	No	26
V4055A1031	13	No	No	13
V4055A1098	13	Yes	No	13
V4055A1296	13	No	Yes, adjusted to 90° stroke	13
V4055D1001	26	Yes	No	26
V4055D1019	13	Yes	No	13
V4055D1043	13	No	No	13


V4062A1008

ACTUATOR, OFF/LOW/HI

Controls gas supply for commercial and industrial burners. Valve opens to low fire position when power is applied; valve opens all the way on demand.

- Low pressure
- Supply voltage: 120 Vac
- Use with V5055B, V5097B valve bodies, V5034, VE5000

Honeywell

Part No.	Opening Time (Sec.)	Damper Shaft	Internal Auxiliary Switch	Opening Time (Sec.)
V4062A1008	26	Yes	No	26


V5055A1004

INDUSTRIAL

Safety shutoff valves used with V4055, V4062 and V9055 fluid power actuators to control gas flow to commercial and industrial burners.

- Use with natural or LP gases

Honeywell

Part No.	Pipe Size (In.)	AGA Capacity (CFH)	Application
V5055A1004	1 FPT	960	Low Pressure On/Off (Quick Open Guide)
V5055A1038	2 FPT	3620	Low Pressure On/Off (Quick Open Guide)
V5055B1002	1 FPT	960	Low Pressure On/Off Characterized Guide (Slow Increase Upon Opening)
V5055B1010	1 1/4 FPT	1406	Low Pressure On/Off Characterized Guide (Slow Increase Upon Opening)
V5055B1028	1 1/2 FPT	1717	Low Pressure On/Off Characterized Guide (Slow Increase Upon Opening)
V5055B1069	2 FPT	3620	Low Pressure On/Off Characterized Guide (Slow Increase Upon Opening)
V5055C1059	1 1/2 FPT	1717	Low Pressure On/Off Double Seal
V5055C1000	2 FPT	3620	Low Pressure On/Off Double Seal
V5055A1053	3 FPT	5230	Low Pressure On/Off (Quick Open Guide)

Continued on next page


V8943N1039

INDUSTRIAL

Single-stage Pressure Regulating Valve;These valves are used on boilers, unit heaters, duct furnaces, makeup air and rooftop heaters.

- Solenoid-operated diaphragm valves that combine the functions of safety shutoff and pressure regulation in a single unit.
- Valve body of die-cast aluminum with a straight-through pattern.
- Valve closes on power failure; recommended for final shutoff service.
- Electrical Connections: 1/4 in. (6 mm) spade terminals (quick connects). 30 in. (762 mm) leadwires and cover for electrical conduit connection provided.

Honeywell

Part No.	Capacity (CFH)	Gas	Connection Size (In.)	Voltage	Application	Opening Time (Sec.)	Opening Time (Sec.)
V8943N1039	780 to 2300	NAT	1 1/2 FPT	24	Low Pressure On/Off Double Seal	6	6

OVEN CONTROL


5500202

INFINITE SWITCH

Infinite controls Uni-Kits® include adaptors for screw- or palnut-type mounting. Kits include dial adaptors, allowing the customer's dial to be used.

- Contact rating: 15 amps 240 Vac
- Universal mounting

Robertshaw

Part No.	Supply Voltage	% Input at Low	Color Dial Included
5500202*	240	5.0	None
5500235*[1]	240	5.0	White

1 Reverse rotation

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


VG7241ET

2-WAY, BRONZE VALVE, PDTC

- Two-way push-down to close (NO/PDTC)
- FPT connection
- Brass trim, equal % flow

Johnson Controls

Part No.	Female Pipe Thread (In.)	Flow (Cv)
VG7241ET*	1/2	1.8
VG7241GT*	1/2	4.6
VG7241LT*	3/4	7.3
VG7241NT*	1	11.6
VG7241PT*	1 1/4	18.5
VG7241RT*	1 1/2	28.9
VG7241ST*	2	46.2


VG7441ET

2-WAY, BRONZE VALVE, PDTO

- Two-way push-down to open (NC/PDTO)
- FPT connection
- Brass trim, equal % flow

Johnson Controls

Part No.	Female Pipe Thread (In.)	Flow (Cv)
VG7441ET*	1/2	1.8
VG7441GT*	1/2	4.6
VG7441LT*	3/4	7.3
VG7441NT*	1	11.6
VG7441PT*	1 1/4	18.5
VG7441RT*	1 1/2	28.9
VG7441ST*	2	46.2


VG7842ET

3-WAY, BRONZE VALVE

- FPT connection
- Three-way mixing
- Brass trim, linear

Johnson Controls

Part No.	Female Pipe Thread (In.)	Flow (Cv)
VG7842ET*	1/2	1.8
VG7842GT*	1/2	4.6
VG7842LT*	3/4	7.3
VG7842NT*	1	11.6
VG7842PT*	1 1/4	18.5
VG7842RT*	1 1/2	28.9
VG7842ST*	2	46.2


V5011N1024

2-WAY, GLOBE, THREADED, PDTC

Honeywell

Part No.	Connection Size (In.)	Flow (Cv)	Type	Media
V5011N1024	1/2	1.85	Equal %	Hot/Cold Water
V5011N1032	1/2	2.9	Equal %	Hot/Cold Water
V5011N1040	1/2	4.7	Equal %	Hot/Cold Water
V5011N1057	3/4	7.3	Equal %	Hot/Cold Water
V5011N1065	1	11.7	Equal %	Hot/Cold Water
V5011N1073	1 1/4	18.7	Equal %	Hot/Cold Water
V5011N1081	1 1/2	29.3	Equal %	Hot/Cold Water
V5011N1099	2	46.8	Equal %	Hot/Cold Water
V5011N2022	1/2	1.85	Linear	Steam
V5011N2048	1/2	4.7	Linear	Steam
V5011N2055	3/4	7.3	Linear	Steam
V5011N2063	1	11.7	Linear	Steam
V5011N2071	1 1/4	18.7	Linear	Steam
V5011N2089	1 1/2	29.3	Linear	Steam
V5011N2097	2	46.8	Linear	Steam

WATER AND STEAM VALVE


V5011N3012

2-WAY, GLOBE, THREADED, PDTO

Honeywell

Part No.	Connection Size (In.)	Flow (Cv)	Type	Media
V5011N3012	1/2	4.7	Equal %	Hot/Cold Water
V5011N3020	3/4	7.3	Equal %	Hot/Cold Water
V5011N3038	1	11.7	Equal %	Hot/Cold Water
V5011N3046	1 1/4	18.7	Equal %	Hot/Cold Water

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WATER AND STEAM VALVE


V5011G1111

2-WAY, GLOBE, THREADED

Used for two-position or modulating control of steam and water and glycol solutions (to 50 % concentration) in heating or cooling systems.

- Stroke: 3/4"
- Direct coupled electric and pneumatic actuators for easy mounting
- Valves require a linkage and control motor; a direct-coupled actuator or pneumatic valve actuator to position the valve.
- Not suitable for combustible gases.

Honeywell

Part No.	Connection Size (In.)	Flow (Cv)	Type	Media
V5011G1111	2 1/2	63	Linear	Steam
V5011G1129	3	100	Linear	Steam
V5011F1105	2 1/2	63	Equal Percentage	Water or Glycol
V5011F1113	3	100	Equal Percentage	Water or Glycol


V5013N1048

3-WAY, GLOBE, THREADED

The V5013N is a three-way threaded globe valve that controls hot water, cold water, and glycol solutions (up to 50% concentration) in heating or cooling HVAC applications. The valve is used for mixing service to direct flow from one of two inlets to a common outlet in two-position or modulating control systems.

- Construction: Stainless steel stem, brass seats (V5013N1048 has stainless upper seat), carbon PTFE packing, brass plug, red brass body
- ANSI class: 150
- Suitable for pneumatic or electric/electronic actuation
- Stroke: 3/4"

Honeywell

Part No.	Connection Size (In.)	Flow (Cv)	Type
V5013N1048	1/2	4.7	4
V5013N1055	3/4	7.3	4
V5013N1063	1	11.7	4
V5013N1071	1 1/4	18.7	4
V5013N1089	1 1/2	29.3	4
V5013N1097	2	46.8	4


VB72110404

2-WAY, NORMALLY OPEN, MPT X FPT

Schneider Electric t.a.c COLMAN

Part No.	Connection Size (In.)	Flow (Cv)
VB72110404	1/2	4.4
VB72110406	3/4	7.5
VB72110408	1	14.0
VB72110409	1 1/4	20.0


VB72130402

2-WAY, NORMALLY OPEN, FPT

Schneider Electric t.a.c COLMAN

Part No.	Connection Size (In.)	Flow (Cv)
VB72130402	1/2	1.3
VB72130403	1/2	2.2
VB72130404	1/2	4.4
VB72130406	3/4	7.5
VB72130407	1	10.0
VB72130408	1	14.0
VB72130409	1 1/4	20.0
VB72130410	1 1/2	28.0
VB72130411	2	40.0

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2-WAY, NORMALLY CLOSED, FPT



VB72230402

Part No.	Connection Size (In.)	Flow (Cv)
VB72230402	1/2	1.3
VB72230403	1/2	2.2
VB72230404	1/2	4.4
VB72230406	3/4	7.5
VB72230407	1	10.0
VB72230408	1	14.0
VB72230409	1 1/4	20.0
VB72230410	1 1/2	28.0
VB72230411	2	40.0

3-WAY, MIXING, FPT

- Hot or chilled water service



VB73130402

Part No.	Connection Size (In.)	Flow (Cv)
VB73130402	1/2	2.2
VB73130404	1/2	4.4
VB73130406	3/4	7.5
VB73130408	1	14.0
VB73130409	1 1/4	20.0
VB73130410	1 1/2	28.0
VB73130411	2	41.0

2-WAY, UNION STRAIGHTWAY, MPT X FPT

2 way globe valve, union end, pneumatic actuator

- ANSI Pressure class: 250 psig
- Maximum steam inlet: 35 psig
- Medium temperature range (°F): 20 to 281

Part No.	Connection Size (In.)	Flow (Cv)
VK7221203404	1/2	4.4
VK7221203406	3/4	7.5



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VALVE ACTUATOR

ADAPTER KITS



Y20EBE2

Part No.	Description	Adapts
Y20EBE2*	Mount Kit	VT Valve, VA7150 Actuator

61 LB. MINIMUM SEATING, SPRING RETURN



VA4233GGA2

Direct-mount, spring return electric actuator provides a minimum 61 lb (271 N) force output for floating, on/off, or proportional control, and can be easily field mounted or ordered factory coupled to Johnson Controls 1/2 through 1-1/4" VG7000 Series Bronze Control Valves, with no additional linkages required.

- Manual hand crank allows for manual positioning of the valve, independent of a power supply
- Integral position indicator provides visual indication of the valve stem position

Part No.	Description
VA4233GGA2*	Proportional

22 LB. CLOSE-OFF



VA80201

The VA-802x Series actuators are synchronous, force-sensor-limited actuators which provide floating/incremental or proportional control for 1/2" valves in many HVAC applications. They are motor-driven, non-spring return actuators.

- Used in conjunction with slotted stem valves

Part No.	Description
VA80201*	24 Vac, Three-Wire Incremental
VA81221*	0 - 10 Vdc, Proportional
VA80501	Electric Valve Actuator, 50Lb, 24V Floating Control

ELECTRIC VALVE ACTUATOR



VA74800312

The VA748 series provides floating or proportional control in HVAC applications. The compact design of this actuator makes it suitable for installation in confined spaces, such as fan coil, chilled ceiling, manifolds, etc. Due to the innovative concept of different strokes setting the VA748 can be installed over most of the terminal unit valve in the market.

Part No.	Description
VA74800312*	24 VAC Floating

ACTUATOR WITH GLOBE VALVE LINKAGE KIT



SGVL+LVKX24-3

The new actuators and retrofit linkages are highly adaptable making selection, installation and service hassle-free.

- Travel ranges of up to 2"
- One universal linkage can retrofit most globe valves, regardless of make
- Increased force ranges for higher close-off pressures (up to 1011 lbf)
- Field selectable fail-safe position switches
- Lower power consumption during operation
- Steam inlet ranges up to 100 psi
- Innovative valve clamp and quick connect coupler

Part No.	Torque	Retrofit Linkage	Fail-Safe	Control Type
SGVL+LVKX24-3*	112 lbf	SGVL	Electronic Fail-Safe	On/Off, Floating Point
SGVL+LVKX24-MFT*	112 lbf	SGVL	Electronic Fail-Safe	Proportional/MFT, 2 to 10 Vdc
SGVL+LVX24-3*	112 lbf	SGVL	Non-Spring Return	On/Off, Floating Point
SGVL+LVX24-MFT*	112 lbf	SGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc
SGVL+SVX24-3*	337 lbf	SGVL	Non-Spring Return	On/Off, Floating Point
SGVL+SVX24-MFT*	337 lbf	SGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc
UGVL+LVKX24-3*	112 lbf	UGVL	Electronic Fail-Safe	On/Off, Floating Point
UGVL+LVKX24-MFT*	112 lbf	UGVL	Electronic Fail-Safe	Proportional/MFT, 2 to 10 Vdc
UGVL+LVX24-3*	112 lbf	UGVL	Non-Spring Return	On/Off, Floating Point
UGVL+LVX24-MFT*	112 lbf	UGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc
UGVL+SVX24-3*	337 lbf	UGVL	Non-Spring Return	On/Off, Floating Point

Continued on next page

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Part No.	Torque	Retrofit Linkage	Fail-Safe	Control Type
FGVLEVB243*[1]	562 lbf	FGVL	Non-Spring Return	On/Off, Floating Point
UGVL+SVX24-MFT*	337 lbf	UGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc
FGVLEVB24MFT*[1]	562 lbf	FGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc
FGVLRVB243*[2]	1011 lbf	FGVL	Non-Spring Return	On/Off, Floating Point
FGVLRVB24MFT*[2]	1011 lbf	FGVL	Non-Spring Return	Proportional/MFT, 2 to 10 Vdc

1 For 2.5" to 4" globe valves 2 For 4" to 6" globe valves

CHARACTERIZED CONTROL VALVE

2-WAY VALVE

The Characterized Control Valve (CCV) marks a true advancement in control valves. It combines the high close-off capabilities of a ball valve with a specialized disc that ensures an equal percentage flow characteristic. The CCV offers a comprehensive Cv range for various applications such as air handlers, heating and cooling coils, fan coil units, unit ventilators and VAV re-heat coils.

- Equal percentage flow characteristic
- Excellent control stability assured with the characterizing disc
- Cv values equal to Cv values of globe valves the same size
- The need for multiple pipe reduction is usually eliminated
- Better control prevents "hunting" of the control loop, increasing the life span of actuator and valve
- Forged brass valve body, no pin-hole leaks
- Non-corroding chrome-plated brass or stainless ball
- Use the valve and actuator selection guide to choose the best actuator for your application



B209-BEL

2-WAY VALVE

- Stainless steel ball and stem
- Service: Chilled or hot water, 60% Glycol.
- Flow characteristic: A-port equal percentage
- NPT female ends

BELIMO

Part No.	Connection Size (In.)	Flow (Cv)
B209-BEL*	1/2	0.8
B210-BEL*	1/2	1.2
B211-BEL*	1/2	1.9
B212-BEL*	1/2	3.0
B213-BEL*	1/2	4.7
B214-BEL*	1/2	7.4
B215-BEL*	1/2	10.0
B216-BEL*[1]	1/2	16.0
B217-BEL*	3/4	4.7
B218-BEL*	3/4	7.4
B219-BEL*	3/4	10.0

Continued on next page

Part No.	Connection Size (In.)	Flow (Cv)
B220-BEL*	3/4	14.0
B221-BEL*[1]	3/4	24.0
B223-BEL*	1	10.0
B224-BEL*	1	19.0
B225-BEL*[1]	1	30.0
B230-BEL*	1 1/4	19.0
B231-BEL*	1 1/4	25.0
B232-BEL*[1]	1 1/4	37.0
B238-BEL*	1 1/2	19.0
B239-BEL*	1 1/2	29.0
B240-BEL*	1 1/2	37.0
B249-BEL*	2	46.0
B250-BEL*[1]	2	57.0
B251-BEL*	2	65.0
B252-BEL*	2	85.0
B253-BEL*	2	120.0
B263-BEL*	2 1/2	110.0
B265-BEL*[1]	2 1/2	210.0

1 Full Port



B309-BEL

3-WAY VALVE

- Stainless steel ball and stem
- Service: Chilled or hot water, 60% Glycol.
- Flow characteristic: A-port equal percentage, B-port modified for constant common port flow
- NPT female ends

BELIMO

Part No.	Connection Size (In.)	Flow (Cv)
B309-BEL*	1/2	0.8
B310-BEL*	1/2	1.2
B311-BEL*	1/2	1.9
B312-BEL*	1/2	3.0
B313-BEL*	1/2	4.7
B315-BEL*	1/2	10.0
B316-BEL*[1]	1/2	16.0
B317-BEL*	3/4	4.7
B318-BEL*	3/4	7.4
B320-BEL*[1]	3/4	24.0
B323-BEL*	1	10.0
B325-BEL*[1]	1	30.0
B330-BEL*	1 1/4	19.0
B331-BEL*	1 1/4	25.0
B339-BEL*	1 1/2	29.0
B340-BEL*	1 1/2	37.0
B341-BEL*	1 1/2	46.0
B348-BEL*	2	37.0
B349-BEL*	2	46.0
B350-BEL*	2	57.0
B351-BEL*	2	68.0

1 Full Port

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CHARACTERIZED CONTROL VALVE



B215HT186

2-WAY VALVE, HIGH TEMPERATURE, STEAM

This valve is designed to fit in compact areas where on/off or floating point control is required using 24 VAC.

- Can only be used in steam applicationsof 15 PSI steam pressure or less
- Stainless steel ball and stem
- Service: water/low pressure steam, 60% Glycol
- Flow characteristic: A-port equal percentage
- NPT female ends

BELIMO

Part No.	Connection Size (In.)	Flow (Cv)
B215HT186*	1/2	1.86
B215HT290*	1/2	2.9
B215HT455*	1/2	4.55
B220HT1320*	3/4	13.2
B220HT731*	3/4	7.31
B220HT928*	3/4	9.28
B225HT1160*	1	11.6
B225HT1856*	1	18.56



TR243

CONTROL VALVE ACTUATOR, NON-SPRING RETURN

- Power Supply: 24 Vac/Vdc
- MFT model, with multi-function technology: faster running times, flexibility to customize and adapt a single actuator to various controllers and applications.
- Can be mounted in four different positions on characterized control valve

BELIMO

Part No.	Control Type	Torque (In.-Lb)	Supply Voltage
TR243*	On/Off, Floating	18	24 Vac/Vdc
TR24SR*	Proportional, 2-10 Vdc	18	24 Vac/Vdc
LRB243*	On/Off, Floating	45	24 Vac/Vdc
LRX24MFT*	Proportional, 2-10 Vdc, MFT	45	24 Vac/Vdc
ARB243*	2 Position, On/Off, Floating	180	24 Vac/Vdc
ARB24SR*	Modulating, 2-10 Vdc	180	24 Vac/Vdc
ARX24MFT*	Proportional, 2-10 Vdc, MFT	180	24 Vac/Vdc



TFRB24

CONTROL VALVE ACTUATOR, SPRING RETURN

- MFT model, with multi-function technology: faster running times, flexibility to customize and adapt a single actuator to various controllers and applications.
- Can be mounted in four different positions on characterized control valve

BELIMO

Part No.	Control Type	Torque (In.-Lb)	Supply Voltage
TFRB24*	On/Off	22	24 Vac/Vdc
TFRB243*	Floating, 3-Wire	22	24 Vac/Vdc
TFRX24MFT*	Proportional/MFT	22	24 Vac/Vdc
TFRB120*	On/Off	22	24 to 125 Vdc
AFRB24*	On/Off	180	24 Vac/Vdc
AFRB24SR*	Proportional	180	24 Vac/Vdc
AFRX24MFT*	Floating/Proportional/MFT	180	24 Vac/Vdc
AFRBUP*	On/Off	180	24 to 125 Vdc

DIRECT COUPLED



TFB24SR

SPRING RETURN, 22 LB.-IN.

- Power Supply: 24 Vac/Vdc

BELIMO

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
TFB24SR*	22	Proportional	24 Vac/Vdc



LF24

SPRING RETURN, 35 LB.-IN.

- MFT model, with multi-function technology: faster running times, flexibility to customize and adapt a single actuator to various controllers and applications.

BELIMO

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
LF24*	35	On/Off	24 Vac/Vdc
LF120*	35	On/Off	120 Vac
LF243*	35	Tri State, Floating	24 Vac/Vdc
LF24S*	35	On/Off, 1 SPDT Aux	24 Vac/Vdc
LF24SR*	35	Proportional	24 Vac/Vdc
LF24SRS*[1]	35	Proportional	24 Vac/Vdc
LF24MFT*	35	Proportional/MFT	24 Vac/Vdc
LF24MFTS*[1]	35	Proportional/MFT	24 Vac/Vdc

1 With Built-In Auxiliary Switch

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


NFB24

SPRING RETURN, 90 LB.-IN.

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
NFB24*	90	On/Off	24 Vac/Vdc
NFB24S*	90	On/Off, 2 SPDT Aux	24 Vac/Vdc
NFB24SR*	90	Proportional	24 Vac/Vdc
NFBUP*	90	On/Off	24 to 125 Vdc
NFBUPS*	90	On/Off, 2 SPDT Aux	24 to 125 Vdc


AFB24

SPRING RETURN, 180 LB.-IN.

- MFT models with multi-function technology: faster running times, flexibility to customize and adapt a single actuator to various controllers and applications.

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
AFB24*	180	On/Off	24 Vac/Vdc
AFB24MFTS*	180	Proportional/MFT	24 Vac/Vdc
AFB24S*	180	On/Off, 2 SPDT Aux	24 Vac/Vdc
AFB24SR*	180	Proportional	24 Vac/Vdc
AFBUP*	180	On/Off	24 to 125 Vdc
AFB24MFT*	180	Proportional, MFT	24 Vac/Vdc
AFBUPS*	180	On/Off, 2 SPDT Aux	24 to 125 Vdc


EFB24

SPRING RETURN, 270 LB.-IN.

- Power Supply: 24 Vac/Vdc

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
EFB24*	270	On/Off	24 Vac/Vdc
EFB24SR*	270	Proportional	24 Vac/Vdc


LMB243

NON-SPRING RETURN, 45 LB.-IN.

- Power Supply: 24 Vac/Vdc

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
LMB243T*	45	On/Off, Floating	24 Vac/Vdc
LMB243*	45	On/Off, Floating	24 Vac/Vdc
LMB243S*	45	On/Off, Floating, 1 SPDT aux	24 Vac/Vdc
LMB24SR*	45	Proportional	24 Vac/Vdc


NMB243

NON-SPRING RETURN, 90 LB.-IN.

- Power Supply: 24 Vac/Vdc

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
NMB243*	90	On/Off, Floating	24 Vac/Vdc
NMB24SR*	90	Proportional	24 Vac/Vdc


AMB243

NON-SPRING RETURN, 180 LB.-IN.

- Power Supply: 24 Vac/Vdc

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
AMB243*	180	On/Off, Floating	24 Vac/Vdc
AMB243S*	180	On/Off, Floating, 1 SPDT Aux	24 Vac/Vdc
AMB24SR*	180	Proportional	24 Vac/Vdc

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIRECT COUPLED



GMB243

NON-SPRING RETURN, 360 LB.-IN.

- Power Supply: 24 Vac/Vdc
- MFT model, with multi-function technology: faster running times, flexibility to customize and adapt a single actuator to various controllers and applications.

BELIMO

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
GMB243*	360	On/Off, Floating	24 Vac/Vdc
GMB24SR*	360	Proportional	24 Vac/Vdc
GMX24MFT*	360	On/Off, MFT	24 Vac/Vdc



FSLF120

FIRE/SMOKE

- True mechanical spring return; the most reliable fail safe.
- Reverse mount for clockwise or counterclockwise fail-safe.
- Check damper position easily with clear position indicator.
- Overload-proof throughout rotation.
- UL555 and UL555S Listed

BELIMO

Part No.	Torque (In.-Lb)	Control Type	Supply Voltage
FSLF120*	30	On/Off	120 Vac
FSLF120S*[1]	30	On/Off	120 Vac
FSNF120*	70	On/Off	120 Vac
FSAF120*	133	On/Off	120 Vac

1 With Built-In Auxiliary Switch



KH6

LINKAGE ACCESSORIES

BELIMO

Part No.	Description	Use with
KH6*	Universal Crank Arm (For KG6 Ball Joint)	NFB,NFX,LF,TF Series
KH8*	Universal Crank Arm (For KG8 Ball Joint)	AFB,AFX,AF,NFB,NFX,LF,TF Series
KG8*	Ball Joint (5/16", 90)	AF,NFB,LF,TF,GM,AM,LM,AH Series
WAF4*	Valve Actuator Linkage Kit	AFB series
WLF*	Valve Actuator Linkage Kit	LF Series
WTF*	Valve Actuator Linkage Kit	TF Series



ZGAF

CRANK ARM ADAPTOR KIT

BELIMO

Part No.	Description	Use with
ZGAF*	Crank Arm Adaptor Kit (includes mounting hardware)	AF Series
ZGNMA*	Crank Arm Adaptor Kit (includes mounting hardware)	AM, NM Series
KHLF*	Crank Arm for Shafts to 1/2"	LF Series



ZGR01

CONTROL AND POSITIONING

BELIMO

Part No.	Description	Use with
ZGR01*	4 to 20 mA Adaptor, 500O,1/2" W	All Belimo Actuators



M9116AGA2

NON-SPRING RETURN, 140 LB.-IN.

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9116AGA2*	140	24 Vac, Floating
M9116GGA2*	140	0 to 10 Vdc (0 - 20 mA)



M9124AGA2

NON-SPRING RETURN, 210 LB.-IN.

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9124AGA2*	210	24 Vac, Floating
M9124GGA2*	210	0 to 10 Vdc (0 - 20 mA)

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SPRING RETURN, 70 LB.-IN.



M9208AGA2

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9208AGA2*	70	24 Vac, On/Off Floating
M9208AGC3*	70	24 Vac, On/Off Floating, 2 Aux
M9208BGA3*	70	On/Off
M9208GGA2	70	0 to 10 Vdc (0-20 mA)

SPRING RETURN, 177 LB.-IN.



M9220AGA3

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9220AGA3*	177	Floating
M9220BGC3*	177	On/Off, 2 Aux. Switches
M9220BGA3*	177	On/Off
M9220AGC3*	177	Floating, 2 Aux. Switches
M9220HGA3*	177	Vdc and mA w/Zero and Span
M9220GGA3*	177	Proportional

NON-SPRING RETURN, 44 LB.-IN.



MN6105A1011

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MN6105A1011	44	2 Position, Floating
MN6105A1201[1]	44	2 Position, Floating
MN7505A2001	44	Modulating, Floating

1 2 Aux.

NON-SPRING RETURN, 88 LB.-IN.



MN6110A1003

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MN6110A1003	88	2 Position, Floating
MN6110A1201[1]	88	2 Position, Floating
MN7510A2001	88	Modulating, Floating
MN7510A2209[1]	88	Modulating, Floating

1 2 Aux.

NON-SPRING RETURN, 175 LB.-IN.



MN6120A1002

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MN6120A1002	175	2 Position, Floating
MN7220A2205[1]	175	Modulating

1 2 Aux.

NON-SPRING RETURN, 300 LB.-IN.



MN7234A2008

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MN7234A2008	300	Modulating

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIRECT COUPLED

SPRING RETURN, 27 LB.-IN.

Zelix, compact actuator



MS8103A1030

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MS8103A1030	27	2 Position / 24 Vac/dc
MS8103A1130[1]	27	2 Position / 24 Vac/dc
MS4103A1030	27	2 Position / 120 Vac
MS4103A1130[1]	27	2 Position / 120 Vac
MS7503A2030	27	Modulating, Floating, 24 Vac/dc
MS7503A2130[1]	27	Modulating, Floating, 24 Vac/dc

1 1 Aux

SPRING RETURN, 44 LB.-IN.



MS4105A1030

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MS4105A1030	44	2 Position / 120 Vac
MS4105A1130[1]	44	2 Position / 120 Vac
MS7405A2030	44	Economizer 3-Position
MS7505A2030	44	Modulating, Floating, 24 Vac/dc
MS7505A2130[1]	44	Modulating, Floating, 24 Vac/dc
MS8105A1030	44	2 Position / 24 Vac/dc
MS8105A1130[1]	44	2 Position / 24 Vac/dc

1 1 Aux

SPRING RETURN, 88 LB.-IN.



MS4110A1002

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MS4110A1002	88	2 Position / 120 Vac
MS4110A1200[1]	88	2 Position / 120 Vac
MS7510A2008	88	Modulating, Floating
MS7510A2206[1]	88	Modulating, Floating
MS8110A1008	88	2 Position / 24 Vac
MS8110A1206[1]	88	2 Position / 24 Vac

1 2 Aux

SPRING RETURN, 175 LB.-IN.



MS4120A1001

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MS4120A1001[1]	175	2 Position / 120 Vac
MS4120A1209[2]	175	2 Position / 120 Vac
MS4120F1006[3]	175	2 Position / 120 Vac
MS4120F1204[4]	175	2 Position / 120 Vac
MS7520A2007	175	Floating, Modulating
MS7520A2205[5]	175	Floating, Modulating
MS7520H2208[5]	175	Floating, Modulating
MS8120A1007	175	2 Position
MS8120A1205[5]	175	2 Position

1 45 Sec 2 45 Sec, 2 Aux 3 15 Sec 4 15 Sec, 2 Aux 5 2 Aux

NON-SPRING RETURN, 35 LB.-IN.



ML6161A2009

Used to control dampers in applications such as variable air volume terminal units, and for controlling ball valves.

- Control signal: SPDT floating, two position
- All include manual declutch level
- Supply power: 24 Vac
- Non-spring return

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Control Signal
ML6161A2009	35	24 Vac	SPDT floating, two position
ML6161A2017	35	24 Vac	SPDT floating, two position
ML6161B2024	35	24 Vac	SPDT floating, two position
ML6161B2032	35	24 Vac	SPDT floating, two position

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ML6174A2002

NON-SPRING RETURN, 70 LB.-IN.

Used to control dampers in applications such as variable air volume terminal units; suitable for use with SPDT floating thermostats, electronic systems, and for mounting on ball valves.

- Supply voltage: 24 Vac
- Timing: 90 seconds
- Includes manual declutch lever
- Non-spring return

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Control Mode	Control Signal
ML6174A2002	70	24 Vac	Series 60	SPDT Floating and On-Off


MS4104F1010

SPRING RETURN, FAST ACTING, FIRE/SMOKE

For on/off damper control with integral junction box. Reversible mounting allows actuator to be used for either clockwise or counterclockwise spring return and are designed to operate reliably in smoke control systems requiring Underwriter's Laboratories Inc. UL555S ratings up to 350°F.

- Timing: 15 seconds
- 95° angle of rotation

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Control Signal
MS4104F1010	30	120 Vac	2-Position, SPST
MS4109F1010	80	120 Vac	2-Position, SPST
MS4104F1210[1]	30	120 Vac	2-Position, SPST

1 2 Aux


MS8120F1002

SPRING RETURN, FIRE/SMOKE, 175 LB-IN.

Spring return direct coupled, line voltage actuator accepts two-position (SPST) control for air dampers, air handlers, ventilation flaps, louvers and ball valves.

- Brush DC submotor with electronic stall protection for two-position model
- Self-centering shaft coupling for various shaft sizes
- Metal housing features built-in mechanical end limits
- Field selectable spring return direction, shaft position indicator and scale, and manual winding capability with locking function
- Supply voltage: 24 Vac
- Timing: 15 seconds

Honeywell

Part No.	Torque (In.-Lb)	Control Type
MS8120F1002[1]	175	2 Position / 24 Vac
MS8120F1200[2]	175	2 Position / 24 Vac

1 15 Sec 2 15 Sec, 2 Aux


MS7103A1021

DIAMOND SPRING RETURN ACTUATOR, 27 LB.-IN.

Simplified shaft adapter and integral conduit connectors save space and eliminate the need for additional tools or conduit connectors. 360-degree conduit connectors swivel for fast conduit installation at almost any needed angle.

- Drive time 90 sec., Spring return time < 25 sec.
- Operating Temperature: -40° to 150°F
- Operating Humidity: 5% to 95% R.H. non-condensing
- Application: rooftop units, economizers, compact control dampers, control valves

Honeywell

Part No.	Torque (In.-Lb)	Description	Control Type	Supply Voltage
MS7103A1021	27	Round Damper Shafts: 3/8 to 5/8", Square Damper Shafts: 1/4 to 1/2"	2-10 Vdc	24 Vac or Vdc
MS7103A2221[1]	27	Round Damper Shafts: 3/8 to 5/8", Square Damper Shafts: 1/4 to 1/2"	2-10 Vdc	24 Vac or Vdc
MS7103A2024	27	Round Damper Shafts: 1/4 to 3/4", Square Damper Shafts: 1/4 to 1/2"	2-10 Vdc	24 Vac or Vdc
MS7103A2224[1]	27	Round Damper Shafts: 1/4 to 3/4" , Square Damper Shafts: 1/4 to 1/2"	2-10 Vdc	24 Vac or Vdc

1 2 Aux

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIRECT COUPLED



ML6420A3049

LINEAR VALVE OPERATOR, NON-SPRING RETURN

Electric linear valve actuator works with standard Honeywell V5011/V5013 globe valves.

- For valves with 1 3/8" bonnet to 3" capacity
- Supply voltage: 24 Vac

Honeywell

Part No.	Stroke Distance (In.)	Stem Force (Lbf)	Control Signal	Timing
ML6420A3049	3/4	135	SPDT, Floating, On/Off	60 Sec.
ML7420A3055	3/4	135	2 to 10 Vdc	60 Sec.



ML6421A1017

LINEAR VALVE OPERATOR, NON-SPRING RETURN

Electric linear valve actuator works with standard Honeywell globe valves.

- Supply voltage: 24 Vac
- ML7421B/ML6421B for use with 4-6" Globe Valve only

Honeywell

Part No.	Stroke Distance (In.)	Stem Force (Lbf)	Control Signal	Timing
ML6421A1017	3/4	405	SPDT, Floating, On/Off	95 Sec.
ML6421B1040	1 1/2	405	SPST. On/Off	175 Sec.
ML7421A1032	3/4	405	2 to 10 Vdc	95 Sec.
ML7421B1023	1 1/2	405	2 to 10 Vdc	175 Sec.



ML6425A3022

LINEAR VALVE OPERATOR, SPRING RETURN

Direct coupled electric linear valve actuator with direct/reverse action switch.

- Supply voltage: 24 Vac
- Use up to 3" Honeywell Globe Valve

Honeywell

Part No.	Stroke Distance (In.)	Stem Force (Lbf)	Control Signal
ML6425A3022[1]	3/4	135	SPDT Floating
ML6425B3013[2]	3/4	135	SPDT Floating
ML7425A3013[1]	3/4	135	0 to 10 Vdc
ML7425B3012[2]	3/4	135	0 to 10 Vdc

1 Extends Stem Down on Power Failure 2 Retracts Stem Up on Power Failure



ML6984A4000

PROPORTIONAL, NON-SPRING RETURN

Mounts directly, without a linkage, on V5011A, C, F, G; V5013F and 1/2-3" water and steam threaded, V5011/V5013 N Series valve bodies.

- Supply voltage: 24 Vac
- NEMA 3R cover for outdoor Installation
- Field installed auxiliary switches and positive feedback pot available

Honeywell

Part No.	Control Signal
ML6984A4000	3 or 5 Wire Floating, Low Volts SPDT, ON/OFF
ML7984A4009	2 to 10 Vdc, 4 to 20 mA, 135O, Series 90



M400A

FORTA

Programmable linear actuator for use with VB7000, VB8000 and VB9000 series 2-way, 3-way TAC valves

- Floating or proportional control
- Direct/Reverse action (switch selectable)
- 60 or 300 second run time (switch selectable)
- Manual override
- Equal percentage or linear (selectable)
- Optional auxiliary switch available
- Use AV8111 linkage for VB7xxx and AV812 for VB8xxx, VB9xxx series valves
- M400A; 1/2 to 2" valves, M800A; 3/4 to 2" valves (VB9313 2 1/2 to 4"), M1500A; 2 1/2 to 6" valves

Schneider Electric t.a.c COLMAN

Part No.	Stem Force (Lbf)	Control Signal	Timing
M400A	90	Proportional, Floating	60 or 300 Sec. selectable
M800A	180	Proportional, Floating	60 or 300 Sec. selectable
M1500A	337	Proportional, Floating	60 or 300 Sec. selectable

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NON-SPRING RETURN, 70 LB.-IN.

The M9100 Series is a direct-mount line of motor actuators that operates on 24 Vac or Vdc power and are available for use with floating or proportional controllers. These bi-directional actuators require no linkages and are easily installed on round damper shafts up to 3/4" diameter or square shafts up to 5/8". Integral auxiliary switches are available for indicating end-stop position or to perform switching functions at any angle within the selected rotation range. Position feedback is available through switches, a potentiometer, or a 0 (2) to 10 Vdc signal.

- Supply voltage: 24 Vac



M9108AGA2

NON-SPRING RETURN, 70 LB.-IN.

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9108AGA2*	70	24 Vac, Floating



ML6174A2002

NON-SPRING RETURN, 70 LB.-IN.

Used to control dampers in applications such as variable air volume terminal units; suitable for use with SPDT floating thermostats, electronic systems, and for mounting on ball valves.

- Supply voltage: 24 Vac
- Timing: 90 seconds
- Includes manual declutch lever
- Non-spring return

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Control Mode	Control Signal
ML6174B2019	70	24 Vac	Series 60	SPDT Floating and 2-Position

NON-SPRING RETURN, 70 LB.-IN.

The M9100 Series is a direct-mount line of motor actuators that operates on 24 Vac or Vdc power and are available for use with floating or proportional controllers. These bi-directional actuators require no linkages and are easily installed on round damper shafts up to 3/4" diameter or square shafts up to 5/8". Integral auxiliary switches are available for indicating end-stop position or to perform switching functions at any angle within the selected rotation range. Position feedback is available through switches, a potentiometer, or a 0 (2) to 10 Vdc signal.

- Supply voltage: 24 Vac



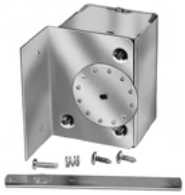
M9108GGA2

NON-SPRING RETURN, 70 LB.-IN.

Johnson Controls

Part No.	Torque (In.-Lb)	Control Input
M9108GGA2*	70	0 to 10 Vdc (0 - 20 mA)

SPECIAL PURPOSE MOUNT



M847A1072

2-POSITION, SPRING RETURN

Used with two-wire 24V room thermostats or other low voltage controllers to operate the draft damper on solid fuel furnaces or boilers and other similar duty applications.

- Supply voltage: 24 Vac
- Rotates CW when energized

Honeywell Home

Part No.	Timing	Stroke (Degrees)	Supply Voltage	Includes	Torque (In.-Oz)	Linkage (In.)
M847A1072	20 Sec.	45	24 Vac	38 in linkage chain	30	3.8, Arm
M847A1080	20 Sec.	45	24 Vac	38 in linkage chain	30	3.8, Chain

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SPECIAL PURPOSE MOUNT


CP8301120

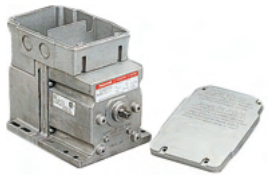
ELECTRONIC ACTUATOR DRIVE

The CP-8301-XXX Series electronic actuator drive is designed to process a variable 1 to 15 Vdc signal from a controller to provide proportional control of an electric gear train actuator.

- Input: 1 to 15 Vdc
- Mounts directly onto Invensys proportional, electric, gear train actuators

Part No.	Input Voltage	Supply Voltage
CP8301120	1 to 15 Vdc	120
CP830124	1 to 15 Vdc	24

FOOT MOUNT


M4185B1009

TWO-POSITION, SPRING RETURN

Two-position, spring return motors used to operate dampers and valves.

- Used in applications where it is necessary or desirable to have the controlled element return to the starting position in the event of power failure or interruption
- Electrically normally closed and rotated clockwise to open with a signal increase
- Modutrol IV Series
- Torque: 60 lb.-in.
- Foot mounted

Part No.	Supply Voltage	Torque (In.-Lb)	Timing	Stroke (Degrees)
M4185B1009[1]	120	60	60 Sec.	160
M4185B1058[1]	120/208/240	60	30 Sec.	90
M8185D1006	24	60	30 to 60 Sec.	90 to 160

1 1-SPDT Auxiliary Switch


M6184D1035

REVERSING, 3-WIRE SPDT, FLOATING

Reversing, 3-wire SPDT or floating control motors used to operate dampers and valves.

- Modutrol IV Series

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)
M6184D1035	150	24	30 to 60 Sec.	90 to 160
M6194D1017	300	24	120 to 240 Sec.	90 to 160

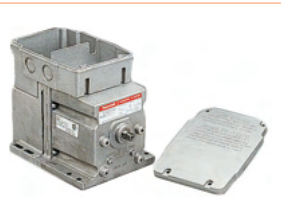

M6415A1016

SPRING RETURN, 25 LB.-IN.

Spring return, 25-lb.-in. damper actuators provide SPDT floating, two-position, three-position or modulating control of economizer systems, ventilation dampers and combustion air dampers. Use with W7459A.

- Stroke: 90°
- Timing: 90 seconds
- Maximum operating torque: 25 lb.-in.
- Power supply: 24 Vac

Part No.	Rotate to Open	Application
M6415A1016	CCW	SPDT Floating
M8405A1006	CCW	3-Position, Adjustable Minimum
M8415A1004	CW	2-Position, Adjustable Auxiliary


M7284A1004

PROPORTIONAL, ELECTRONIC

Proportional motors used to operate dampers and valves when used with a modulating 4-20 mA current source.

- Modutrol IV Series

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)
M7284A1004	150	120	30 Sec.	90
M7284C1000[1]	150	120	30 Sec.	90

1 2-Auxiliary Switch

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


M9182A1011

PROPORTIONAL, REVERSING, SPRING RETURN

- For Series 90 control circuit
- Supply power: 24 Vac
- M9185 can operate valve linkages from power end or normally open valve applications
- M9182 can operate valve linkages from power end or auxiliary end shafts for normally closed or open valve applications

Honeywell

Part No.	Supply Voltage	Torque (In.-Lb)	Timing	Stroke (Degrees)
M9182A1011	24 Vac	60	60 Sec.	160
M9185A1018	24 Vac	60	60 Sec.	160
M9185D1004	24 Vac	60	30 to 60 Sec.	90 to 160


M9174B1027

PROPORTIONAL, REVERSING, NON-SPRING RETURN, 35-75 LB. IN.

- For Series 90 control circuit

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)
M9174B1027[1]	75	120	30 to 60 Sec.	90 to 160
M9174C1025[2]	75	120	30 Sec.	90

1 1-SPDT Auxiliary 2 2-SPDT Auxiliary


M9484E1017

PROPORTIONAL, REVERSING, NON-SPRING RETURN, 75-150 LB. IN.

Reversing, proportional motors used to drive burner firing rate valves, dampers or auxiliary equipment. Replace M941A,C,D motors.

- Designed for flame safeguard applications in commercial/ industrial oil or gas burner system.
- Vibration resistant electronic drive circuit.
- Regulated by three-wire proportional controller; 135 ?
- Stroke is field-adjustable to 90 or 160 degrees.
- Supply power: 24 Vac

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)	Includes
M9484E1017	150	24 Vac	30 to 60 Sec.	90 to 160	1 Aux Switch (1°)
M9484E1033	150	24 Vac	30 to 60 Sec.	90 to 160	1 Aux Switch (7°)
M9484F1007	150	24 Vac	30 to 60 Sec.	90 to 160	2 Aux Switch (7° + 80°)
M9484F1023	75	24 Vac	15 to 30 Sec.	90 to 160	2 Aux Switch
M9484F1031	150	24 Vac	30 to 60 Sec.	90 to 160	2 Aux Switch (7° + 80°)


M9184A1019

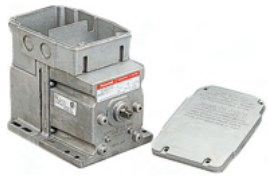
PROPORTIONAL, REVERSING, NON-SPRING RETURN, 150-300 LB. IN.

- For Series 90 control circuit
- Supply power: 24 Vac

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)
M9184A1019	150	24 Vac	60 Sec.	160
M9184D1021	150	24 Vac	30 to 60 Sec.	90 to 160
M9194D1003	300	24 Vac	120 to 240 Sec.	90 to 160
M9194E1000[1]	300	24 Vac	120 to 240 Sec.	90 to 160

1 1-Aux. Switch


M7164A1017

PROPORTIONAL, MODULATING DC

Proportional motors used to operate dampers and valves when used with a modulating DC voltage source.

- Modutrol IV Series
- Motor and circuitry operate from 24 Vac.
- Input signal: 10.5 to 13.5 Vdc
- Torque: 60 Lb. In.

Honeywell

Part No.	Torque (In.-Lb)	Supply Voltage	Timing	Stroke (Degrees)	Voltage
M7164A1017	60	24 Vac	30-60 Sec.	90 to 160, Asymmetrical	24
M7164G1030[1]	60	24 Vac	30-60 Sec.	90 to 160, Symmetrical	120

1 Includes a transformer

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FOOT MOUNT


MA418

2 POSITION, OIL SUBMERGED ACTUATOR

These actuators provide 2-position operation of dampers, valves, and other equipment requiring the return to normal position upon power interruption.

- SPST controller
- Spring return. CCW to origin.
- 2-wire, SPST control
- Torque: 60 lb.-in.
- Damper area: 33 sq. ft. parallel, 43 sq. ft. opposed blade
- No load timing: 20 seconds

Part No.	Supply Voltage	Torque (In.-Lb)	Spring Return
MA418	120	60	CCW to origin


MP381

REVERSIBLE PROPORTIONAL ELECTRIC

The MP Series actuators are used for 2-position, floating, and proportional control of dampers, valves, and program switches in heating, ventilation, air conditioning applications, or similar applications.

- Proportional actuators with built-in feedback potentiometers
- Rotation: set at 180° (adjustable 45 to 320°)

Part No.	Supply Voltage	Torque (In.-Lb)	Timing	Spring Return	Auxiliary Switch
MP381	24	220	130 Sec.	CW	SPDT
MP485	120	220	130 Sec.	NO	SPDT
MP461600	120	50	90 Sec.	CW	SPDT

ACTUATOR ACCESSORIES


Q5001D1000

VALVE LINKAGE, Q5001 SERIES

The Q5001 valve linkage connects a Modutrol® motor to a 2- or 3-way valve. It is used primarily on V5011 or V5013 steam and water valves.

- Q5001 valve linkage is applicable to 2-way or 3-way valves in modulating or two-position service
- Linkage requires no adjustment when used with Honeywell valves and Modutrol IV motors
- Q5001 valve linkage replaces Q601 and Q618 valve linkages

Part No.	Stem Force (Lbf)
Q5001D1000	80, 160
Q5001D1018	160, 320


Q5024B2240

VALVE LINKAGE, Q5024 SERIES

Q5024 globe valve linkages connect a Honeywell direct coupled actuator (DCA) to a steam or water globe valve.

- Used with 2-way and 3-way globe valves in modulating or two-position service.
- Quick and simple installation with no disassembly required.
- Heavy-duty steel rack and pinion construction and aluminum die-cast housing.
- Maintenance-free construction.
- Flexible actuator mounting orientation.
- Adjustable manual override lever and valve position indicator.
- Available for 1/2 in. through 6 in. globe valves made by most manufacturers.
- Used with Honeywell MS and MN Spring and Non-Spring Actuators.

Part No.	Stroke (In.)	Nb. of Actuators
Q5024B2240	1.57	2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



Q7230A1005

INTERFACE MODULE

For converting Series 90 Modutrol IV motors to Series 70 (electronic) control.

- Q7130A1006 provides selectable voltage ranges: 4 to 7, 6 to 9 or 10.5 to 13.5 Vdc. Adapts M91XX Modutrol IV motor to function as M71XX model for M734H, J; M744D; M745G, P replacements.
- Q7230A1005 provides adjustable zero and span, voltage or current control (includes 4 to 20 mA and 2 to 10 Vdc). Adapts M91XX Modutrol IV motors to function as M72XX model for M744S, T, Y; M745S, T, Y replacements

Honeywell

Part No.	Application
Q7230A1005	Adj zero and span, 4-20 ma or 2-10 Vdc



S443A1007

MANUAL POTENTIOMETER, S443 SERIES

Used for remote manual control of proportioning (Series 90) motors and relays.

- Use with M934, M941, M944, M945, M9164, M9484, M9184, M9185

Honeywell

Part No.	Resistance (Ohm)
S443A1007	135



27518

DAMPER LINKAGE, Q298 SERIES

Honeywell

Part No.	Description
27518	Crankarm balljoint with 1/4 - 28 UNF male threads, fits 5-16" push rods



Q209E1002

MANUAL POTENTIOMETER, Q209 SERIES

Used to limit minimum position of a proportioning Modutrol motor.

Honeywell

Part No.	Mount Location	Resistance (Ohm)	Use with
Q209E1002	Internal, Cover Box	150	Modutrol IV



S963B1128

MANUAL POTENTIOMETER, S963 SERIES

For remote setpoint control of electronic (Series 70) motors and panels.

Honeywell

Part No.	Resistance (Ohm)	Scale Range	Use with
S963B1128	135	Open/Closed	Proportional Motors
S963B1136	270	Open/Closed	Proportional Motors



MP5210

PROPORTIONAL

These actuators provide electronic proportional control of dampers, valves, or program switches requiring the return to normal position upon power interruption.

- Compatibility with 2 to 15 Vdc System 8000 input signals
- Proportional control by variable Vdc input signal
- Spring return
- Fixed 3 Vdc operating span
- Timing: 60 second extension; 40 second retraction, 15 second retraction (power loss)
- Requires linkage for dampers or valves
- Auxiliary switch (where indicated): SPDT, 10 Amps

Schneider Electric t.a.c COLMAN

Part No.	Supply Voltage	Auxiliary Switch
MP5210	120	No
MP5210500[1]	120	Yes
MP5213	24	No
MP5213500[1]	24	Yes
MP5230[2]	120	No

1 SPDT 10 Amp auxiliary switch 2 Damper actuation only



MP5410

POSITIVE POSITIONING

These actuators provide electronic proportional control of dampers, valves, or program switches requiring the return to normal position upon power interruption.

- Proportional control by variable Vdc input signal
- Compatability with 2 to 15 Vdc System 8000 input signals
- Spring return
- Timing: 60 second extension; 30 second retraction, 15 second retraction (power loss)
- Requires linkage for dampers or valves

Schneider Electric t.a.c COLMAN

Part No.	Supply Voltage
MP5410	120
MP5413	24

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HYDRAULIC



MP5513

POSITIVE POSITIONING (0-10 VDC)

The MP-500 Series actuators are for the electronic proportional control of dampers, valves, or program switches which require the return to normal position upon power interruption. This series is compatible with 0 to 10 Vdc input signals.

- Proportional actuators controlled by variable Vdc input signal
- Spring return
- Timing: 60 second extension; 30 second retraction, 15 second retraction (power loss)
- Requires linkage for dampers or valves

Part No.	Supply Voltage
MP5513	24



MA5210

2 POSITION

These actuators are used for electronic 2-position control of valves and dampers which require a return to the normal position upon power interruption.

- Spring return
- 2-wire, SPST control
- 2-position actuators controlled by an SPST controller
- No load timing: 60 seconds
- Requires linkage for dampers or valves
- Auxiliary switch (where indicated): SPDT, 10 Amp

Part No.	Supply Voltage	Auxiliary Switch
MA5210	120	No
MA5210500[1]	120	Yes
MA5213	24	No
MA5213500[1]	24	Yes

1 SPDT 10 Amp auxiliary switch

ACCESSORIES



AV600

VALVE LINKAGE KIT

For assembling MA, MF, MP-5X1X and MPR-5X1X Series hydraulic actuators to (1/2" to 1 1/4") valve bodies. Device consists of spring retainer, spring and combination stem extension and lock nut.

Part No.	Description
AV600	VB9000 Series Body Linkage
AV7600	VB7000 Series Body Linkage



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIQUID FLOW SWITCH

F261 SERIES

The F261 Series Flow Switches respond to fluid flow in lines carrying water, ethylene glycol, or other nonhazardous fluids. These models also work in applications with swimming pool water and lubricating oils.

- SPDT switches
- Type 3R (NEMA) or Type 4 (NEMA) polycarbonate enclosure provides dust protection in indoor and outdoor applications.
- Viton® diaphragm allows use in fluid lines carrying chlorinated water, treated water, or other nonhazardous fluids.
- Maximum fluid pressure: 290 psig
- Maximum fluid temperature: 250°F
- Minimum fluid temperature: -20°F



F261KAHV01C

STANDARD FLOW RATE, PADDLE

F261 Series Standard Flow Switches use a variety of paddle sizes to respond to fluid flow rates in applications with 1 inch trade size (or greater) pipe.

- Each model includes: 1 in., 2 in., 3 in., and 6 in. stainless steel paddles, lock-tooth washer, and stainless steel paddle screw (supplied uninstalled)
- F261MALV01C is a low-energy model with gold-plated contacts that provides improved electrical performance in low-voltage, low-current circuits (dry circuits)

Johnson Controls

		Dimensions (In.)		
Part No.	Enclosure	H	W	FLA (@ 240 V)
F261KAHV01C*[1]	NEMA 3R	5.55	7.15	10
F261MAHV01C*[1]	NEMA 4	5.55	7.15	10
F261MALV01C*[2]	NEMA 4	5.55	7.15	-

1 Dimension with 3" paddle 2 Dimension with 3" paddle. Low-energy flow switch firh gold-plated electrical contacts



F261KEHV01C

LOW FLOW RATE

F261 Series Low Flow Switches respond to low fluid flow rates in applications with 1 inch trade size (or less) pipe.

- Low-flow operation on low-flow models actuates switch with less than 2.0 GPM flow for water applications or 11.0 GPM flow for steam applications

Johnson Controls

				Adjustment Range, Flow Increase		Adjustment Range, Flow Decrease	
Part No.	FPT (In.)	Enclosure	Contact Rating (Amps)	(R to Y Clos-es) Min	(R to Y Clos-es) Max	(R to B Clos-es) Min	(R to B Clos-es) Max
F261KEHV01C*	1/2	NEMA 3R	10	1.3	2.6	0.6	1.25
F261KFHV01C*	3/4	NEMA 3R	10	2.0	3.6	0.6	1.3



FS251

PADDLE

- For starting or stopping electrically operated equipment such as signal lights, alarms, motors, automatic burners, metering devices, and others
- 1" NPT
- Sensitivity adjusting screw makes flow adjustment easy
- Single pole, double throw snap switch; 3.7 FLA 240V
- Four stainless steel paddles included: 1", 2", 3", and 6"
- Maximum pressure: 160 psi

McDonnell & Miller

	Dimensions (In.)		
Part No.	H	W	Description
FS251	3.60	4.10	Flow Switch, NEMA-1 Case
FS254	4.30	4.20	Flow Switch, NEMA-4 Case

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIQUID FLOW SWITCH



FS1W

HIGH SENSITIVITY

- For general purpose applications where high sensitivity is required and moderate or low flow rates are encountered such as air conditioning, heating and hydronic systems, water, fuel oil, some viscous liquids and oils in process work
- In-line configuration eliminates need for a pipe tee
- High flow capacity
- 1/2" NPT
- SPDT snap switch
- Switch compartment is completely sealed to protect it from the liquid
- Sensitivity adjusting screw makes flow adjustment easy
- Minimum temperature: 32°F
- Maximum temperature: 225°F
- Maximum operating pressure: 100 psi

McDonnell & Miller

Part No.	Description
FS1W	High Sensitivity Flow Switch, NEMA 4X Enclosure

AIR FLOW SWITCH



F262KDH01C

PADDLE

The F262 Series Airflow Switches detect airflow or the absence of airflow by responding only to the velocity of air movement within a duct. The SPDT switch can be wired to open one circuit and close a second circuit for either signaling or interlock purposes.

- Type 3R (NEMA) polycarbonate enclosure allows use in indoor applications and provides dust protection; approved for use in a plenum according to NEC
- Dependable dust-protected SPDT snap-acting PENNswitch detects the presence or absence of airflow
- Large wiring space makes wiring convenient and easily accessible
- Easily accessible range adjustment screw allows easy field adjustment

Johnson Controls

			Dimensions (In.)		
Part No.	Switch	Paddle Size (In.)	H	W	D
F262KDH01C*	SPDT	3 1/8 x 6 7/8 (supplied)	0.00	0.00	2 3/4



AF1M

SAIL SWITCH

- Velocity range: 480-2230 FPM
- Maximum allowable velocity: 2500 FPM
- Temperature range: 32-300°F
- Switch: SPDT
- General purpose enclosure

McDonnell & Miller

Part No.	Switch	Description
AF1M	SPDT	Medium, High Air Flow Switch

FLOAT SWITCH



F263MACV01C

Designed to maintain a liquid level in indoor or outdoor closed tanks that hold water or other nonhazardous liquids. When the liquid level in the tank rises above or falls below the required level, the single-pole, double-throw (SPDT) switch closes one circuit and opens a second circuit.

- Viton® diaphragm allows use in fluid lines carrying chlorinated water, treated water, or other nonhazardous liquids.
- Sturdy Type 4 (NEMA) enclosure allows for use in indoor or outdoor applications; inhibits the formation of moisture in low temperature applications
- Liquid temperatures: -20 to 250°F
- Maximum liquid pressure: 100 psig

Johnson Controls

Part No.	Switch	Enclosure	FLA (@ 240 V)
F263MACV01C*	SPDT	NEMA 4	10

DIFFERENTIAL PRESSURE SWITCH, AIR



P32AC1

AIR FLOW SENSOR

The P32 differential pressure switch is used to sense air flow in ducts.

- Ambient temperature range: -40 to 167°F
- Adjustable setpoint
- Connection: 1/8" FPT
- Contact rating: 4.9 F.L. Amps 240V
- P32AC2 is supplied with 1/4" compression fitting, 4" extension tube, 2 mounting screws and O gasket

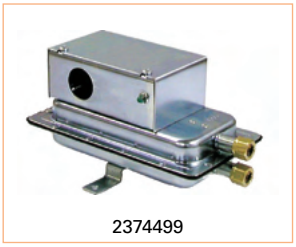
Johnson Controls

Part No.	Setpoint Range	Switch	Sensitivity at Min. Setpoint (In. WC)	Includes
P32AC1*	.15 to 12 "WC	SPDT	0.07	Mounting Bracket BKT1821R
P32AC2*	.05 to 5"WC	SPDT	0.04	Mounting Bracket BKT2291R

Continued on next page

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Part No.	Setpoint Range	Switch	Sensitivity at Min. Setpoint (In. WC)	Includes
P32AF1*	.05 to 5"WC	SPDT	0.025	Mounting Bracket BKT1821R
P32AF2C*	.05 to 5"WC	SPDT	0.025	Mounting Bracket BKT2291R



2374499

AIR FLOW SENSOR

- Responds to positive, negative, or differential air pressure
- Eliminates fluttering or malfunction due to shock or vibration normally encountered with sail switches
- Contact rating: 15 resistive amps 277 Vac

Robertshaw

Part No.	Setpoint Range	Switch
2374499	0.05 to 12.0"WC	SPDT



2374495

AIR FLOW SENSOR

Designed to replace a wide variety of air-sensing switches found in residential and light commercial applications including furnaces, electronic air cleaners and humidifiers. Both models are provided with an SPDT switch that can be activated by positive or negative pressure, or by pressure differential.

- Operates diaphragm vertical
- Connection: 1/8", 1/4", 3/8" barbed
- Contact rating: 5A noninductive to 277 Vac

Robertshaw

Part No.	Setpoint Range
2374495	.25 to 1.0"WC
2374498	1.0 to 4.0"WC



1910-0

DIFFERENTIAL PRESSURE SWITCH

Low differential pressure switch for air proving or filter service applications

Dwyer

Part No.	Range (H2O)
1910-0	.15 to .55
1910-1	.40 to 1.6
1910-5	1.40 to 5.5



2374510

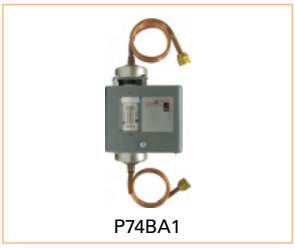
UNIVERSAL AIR PRESSURE SENSING SWITCH AND PROBE

With a wide array of applications, the 2374510 kit replaces hundreds of other manufacturers' air pressure switch models.

- High impact polycarbonate housing
- Works in a variety of harsh conditions
- Snap-acting switch with three male 90° quick connect terminals
- Field adjustable set points ranging from 0.10" to 10" W.C.
- Switch is NEMA rated and is practically insensitive to temperature change with an operating range of -40 to +190°F
- Installer can use 10650 sensing probe kit for hard to reach air streams

Robertshaw

Part No.	Includes	Description
2374510	Air Pressure Sensing Switch, Calibration Springs (5 options), Orifice Flow (4 options), Mounting Brackets (2 options), Hex Wrench	Universal Air Pressure Sensing Switch Kit, SPDT



P74BA1

LIQUID

Series P74 measures the pressure difference between two sources.

Johnson Controls

				Connection			
Part No.	Switch	Pressure Differential	Switch Differential (psi)	Size (In.)	Type	Capillary Length	Contact Rating (Amps)
P74BA1*	SPST, Opens Decrease ?P	8 to 70 psig	8 to 30	1/4	FFL	3'	20
P74EA8*	SPDT (Snap Acting)	2 to 26 psig	3.5, Fixed	1/4	FFL	3'	16
P74FA1*	SPDT (Snap Acting)	8 to 60 psig	1.5, Fixed	1/4	MFL	None	6
P74FA5*	SPDT (Snap Acting)	8 to 60 psig	1.5, Fixed	1/4	FPT	None	6
P74FA10*	SPDT (Snap Acting)	2 to 26 psig	1.5, Fixed	1/4	FFL	3'	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DIFFERENTIAL PRESSURE SWITCH, LIQUID


24-013

NEMA 4

Used typically to sense differential pressure across devices such as oil or water filters, pumps, heat exchangers, chillers, coils, etc. Normally provides an alarm or shutdown function in applications where there is insufficient flow in a system or when excessive pressure differential indicates a problem. It may also be used to indicate pump status.

- SPDT switch with screw terminals
- Gasketed zinc-plated steel cover
- Strong, corrosion-resistant polyester enclosure
- External, multiturn adjusting screw for excellent resolution
- 7/8" hole for 1/2" NPT conduit connection
- Corrosion-resistant brass port
- Clearance holes for surface mounting
- NEMA 4 enclosure

UNITED ELECTRIC CONTROLS

			Connection			
Part No.	Switch	Pressure Differential	Size (In.)	Type	Capillary Length	Contact Rating (Amps)
24-013	SPDT	1 to 10 psid	1/4	FPT	None	5


PWLX04S

TRANSDUCER, 3-WIRE

The PW Series wet/wet pressure transducers incorporate a highly accurate, stable sensor, which is microprocessor profiled for exceptional accuracy and reliability. Designed for ease of use and to provide exceptional installation savings, the PW Series is ideal for measuring pressure across pumps, filters, heat exchangers, compressors and other non-corrosive wet media applications.

Applications

- Monitor and control pump differential pressure
- Chiller/boiler differential pressure drop
- CW/HW system differential pressure

Features

- Rugged, die-cast enclosure provides NEMA 4 sealing
- Field-selectable output . 0-5V/0-10VDC, or 4-20mA provides excellent systems compatibility
- LCD display

VERIS INDUSTRIES

		Connection		
Part No.	Pressure Differential	Size (In.)	Type	Capillary Length
PWLX04S	0 to 100 psi	1/4	FPT	None

PRESSURETROL ®


PA404A1025

SPST - PA 404 SERIES

Provides control for steam pressure.

- Sensitive pressure-actuated diaphragm expands or contracts with pressure variations, moving a lever mechanism that operates the snap-switch.
- Use PA404A as high limit safety controller for steam boilers; use PA404B as fan controller for suspension-type unit heaters.
- Contact rating: 5.1 F.L. Amp 240 Vac

resideo

Part No.	Operating Range (psi)	Switch
PA404A1025	3 - 15	SPST, Opens on Rise
PA404A1033	0.5 - 9.0	SPST, Close on Fall
PA404B1023	0.5 - 9.0	SPST, Opens on Fall


L404F1409

L404 SERIES

Provides operating control, automatic reset limit protection

- Use with steam, air, noncombustible gases, or other fluids noncorrosive to pressure sensing element.
- Contact rating: 5.1 F.L. Amps 240 Vac
- SPDT controls include siphon loop (except L404F1102)
- SPST controls include ground screw

Honeywell

Part No.	Operating Range (psi)	Switch	Differential Midscale (psi)
L404F1409	2 - 15	SPST, close on rise	2 to 6
L404F1078	5 - 50	SPDT	6 to 14
L404F1375	5 - 50	SPST, close on rise	6 to 14
L404F1102	10 - 150	SPDT	10 to 22
L404F1383	10 - 150	SPST, close on rise	10 to 22
L404F1094	20 - 300	SPDT	20 to 50
L404F1391	20 - 300	SPST, close on rise	20 to 50



L404V1095

L404 SERIES OIL

Oil pressure sensing devices for use on oil burner systems using any type of fuel oil including heavy, pretreated oils

- Clear plastic cover allows observation of the pressure settings and switch action
- Siphon loop provides thermal buffer to diaphragm
- Switching: L404T-SPST open on rise; L404V close on rise 5.1 FLA 240 Vac

Honeywell

Part No.	Operating Range (psi)	Switch	Differential Midscale (psi)
L404V1095	5 - 50	SPST, close on rise	6 to 14
L404T1063	10 - 150	SPST, open on rise	10 to 22
L404V1087	10 - 150	SPST, close on rise	10 to 22



L4079B1033

MANUAL RESET

- High pressure limit switches
- Stainless steel diaphragm for use with steam, air, noncombustible gases and fluids noncorrosive to stainless steel.
- Snap-acting switches open automatically on pressure rise; must be manually reset.
- Breaks 1 circuit
- Siphon loop included
- L4079W for oil applications, above 85 psi intermittent only

Honeywell

Part No.	Operating Range (psi)
L4079B1033	2 - 15
L4079B1058	5 - 50
L4079B1041	10 - 150
L4079B1066	20 - 300
L4079W1000	10 - 150, oil



L91A1037

PROPORTIONAL

Modulating pressure operating control for regulation of liquid or air and other non-corrosive gases.

- Use with steam, air, noncombustible gases, or other fluids noncorrosive to the brass or phos-bronze (300 psi models) bellows. Do NOT use with combustible mediums or any medium chemically harmful to phos-bronze bellows (10-300 psi models) or brass bellows.
- L91A: Fixed differential
- L91B: Adjustable differential

Honeywell

Part No.	Operating Range (psi)	Differential Midscale (psi)
L91A1037	0 - 15	7 Oz./Sq. In.

Continued on next page

Part No.	Operating Range (psi)	Differential Midscale (psi)
L91A1052	5 - 150	5
L91A1078	10 - 300	12
L91B1035	0 - 15	1 to 12
L91B1050	5 - 150	5 to 23
L91B1068	10 - 300	28 to 110
L91B1241	10 - 300	12 to 48



J10809W

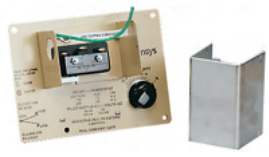
HUMIDISTAT

Ranco humidity controls are designed to regulate the relative humidity of confined air spaces by cycling humidifying or dehumidifying equipment. J10 controls may be wall mounted and used to control exhaust fans or a furnace humidifier. The J10-808 control may also be duct mounted. The J10-809 Series can be wired in series or parallel with any 24 volt non-electric thermostat for humidity control in conditioned spaces.

RANCO

Part No.	Humidity (% RH)	Function	Voltage
J10809W[1]	20-80	Dehumidistat, SPST	24

1 White cover



HC201

2 POSITION HUMIDITY

These controllers provide low or line voltage on-off single stage control of humidifiers, dehumidifiers, valves, solenoid valves, compressors, relays, etc.

- Scale range: 15 to 95% RH, 5% switch differential
- SPDT switch

Schneider Electric t.a.c COLMAN

Part No.	Description
HC201	Duct Mount Humidity Controller



W42AA1

HUMIDISTAT, LINE VOLTAGE

- Field-adjustable high and low stops. Stops can be set for locked setting.
- Designed for use in Building Automation Systems, BAS, and HVAC applications
- Horizontal or Vertical Mounting
- 4% RH differential

Johnson Controls

Part No.	Description
W42AA1*	Humidistat 10 to 90% RH, SPDT
W43A14*	Humidistat 0 to 70% RH, SPDT

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HUMIDITY SENSOR

DUCT TRANSMITTER



HE69130NP

Johnson Controls

Part No.	Description
HE69130NP*	Duct Probe Humidity and Temperature Sensor, 1K ohm Nickel sensor, ±3% sensor accuracy

2% ACCURACY RH TRANSMITTER


A/RH2D

The A/RH Series relative humidity transmitters utilize a capacitive sensing element to deliver a proportional analog output. This Series features on board DIP switches which allow the user to select the desired output signal. In addition, field calibration can be performed by using the on-board increment and decrement DIP switches. These enhancements provide increased flexibility and outstanding long-term performance. Duct and Outside Air configurations feature conformally coated circuit boards for moisture resistance. Several RTD and thermistor temperature sensing elements are available in this Series.

ACI

Part No.	Accuracy	Configuration
A/RH2D	±2%	Duct/Euro
A/RH2O	±2%	Outside Air/Euro
A/RH2R	±2%	Room

SOLID STATE


C7600B2008

Solid state humidity sensor sense relative humidity in air

- Operating humidity: 10-90% RH

Honeywell

Part No.	Mounting Code	Operating Temp. (°F)	Control Signal	Use with
C7600B2008	Junction Box Wall	32 to 125	2 - 10 Vdc Directly Proportional	T775U
C7600C2001	Any position where it is exposed to freely circulating air	-40 to 150	4 - 20 mA	W7600 or controller requiring 4-20 mA reverse acting input

ENTHALPY SENSOR



C7400A2001

- A solid state enthalpy sensor designed to sense temperature and humidity with 5% accuracy
- C7400A mounts in any position up to 200 ft away from Economizer Logic Module. It uses two sensors for differential control, maximizing energy savings
- C7400S Sylk Bus sensor is powered by and communicates on the Sylk Bus.

Honeywell

Part No.	Control Signal	Description	Use with
C7400A2001	4 - 20 mA output	Enthalpy Sensor	W72XX, W7459, W7460
C7400S1000	4 - 20 mA output	Sylk Bus Enthalpy Sensor	W7220


H7735C2015

The H7735 is a highly accurate, stable humidity sensor designed for use with HVAC controllers. H7735 include a humidity sensor with 3% accuracy and a 20 kOhm NTC temperature sensor. Duct and wall and outdoor models are available.

Honeywell

Part No.	Mounting Code	Operating Temp. (°F)	Accuracy	Control Signal	Use with
H7735C2015	Outdoor Air	-40 to 158	±3% over 0 to 100% RH Range	0-5 Vdc, 0-10 Vdc	T7350, XL10, XL15

HUMIDITY TRANSDUCERS


H7655A1001

Highly accurate, stable humidity transducers designed for use with HVAC controllers such as the T7350 thermostat, H775 remote humidity controller, and W7760 DDC control. The ceramic technology humidity sensor is not affected by condensation and other limitations that sensors that use water soluble polymer coatings exhibit and provides excellent long-term stability.

Honeywell

Part No.	Mounting Code	Accuracy	Control Signal	Use with
H7655A1001	Wall	5% from 30 to 70% RH	0-10Vdc	T7350, XL10, XL15

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEMPERATURE SENSOR



084N2003

PROBE SENSOR

- Designed for use with Adap-Kool® control systems
- PT 1000 ? sensor
- Temperature range (°F): -70 to +180

ENGINEERING TOMORROW Danfoss

Part No.	Description	Type	Tempera-ture (°F)	Resistance (Ohm)	Lead Length
084N2003	Multipurpose Sensor	AKS 21M	-70 to 180	1000	8.2′
084N2008	Surface Sensor with Clip	AKS 21A	-70 to 180	1000	16.4′



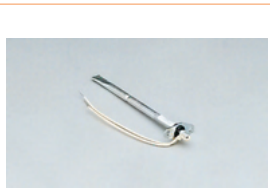
TE6000100

PROBE

The TE-6000 sensing elements are typically used with TE-6001 hardware assemblies in a wide variety of temperature sensing applications. All models are nickel wire-wound elements.

Johnson Controls

Part No.	Type	Resistance (Ohm)	Tolerance
TE6000100*	Ultra-precision, Standard	1000	±0.1%



C7046A1004

DISCHARGE AIR, C7046 SERIES

Honeywell

Part No.	Description	Resis-tance (Ohm)	Length (In.)	Element Length
C7046A1004	No Setpoint	3000 77°F NTC	10.00	8″
C7046A1038	No Setpoint	3000 77°F NTC	13.00	12″
C7046B1010	Zone Discharge, Hot Deck, Cold Deck, Remote Return Air	22.8K 77°F NTC	7.00	6″
C7046D1008	Discharge Temp.	1097 77°F PTC	9.00	8″



C7100A1015

DISCHARGE AIR, C7100 SERIES

- Element insertion: 13 1/4″
- Electronic

Honeywell

Part No.	Type	Temperature (°F)	Use with	Length (In.)	Element Length
C7100A1015	3484O 77°F	40-220	W7100	13.60	13 1/4″
C7100B1013	Thermistor	40-150	W7080	13.75	13 1/4″
C7100D1001	PT1000	40-100	XL500, XL600	9.00	13 1/4″



C7100C1003

AVERAGING

Intended for use with T775 electronic remote temperature controller.

Honeywell

Part No.	Temperature (°F)	Element Length
C7100C1003	40 to 220	13″



TR40

ZIO™ LITE WALL MODULE

The TR40 and TR42 are 2-wire, non-polarity sensitive, Sylk bus communicating wall modules, which communicate with Spyder® and some ComfortPoint™ programmable controllers. The TR40 and TR42 are simple LDC temperature wall modules with basic setpoint, override, and fan options, and are designed for a broad range of applications. Models available with display (TR42) or without display (TR40). TR42 models have configurable interface: temperature setpoint adjustment, override, fan (with FCU app)

Honeywell

Part No.	Description
TR40	Wall Module, Temp Only, Sylk
TR40-CO2	Wall Module, Temp and CO2, Sylk
TR40-H	Wall Module, Temp and Humidity, Sylk

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEMPERATURE SENSOR


TR21

WALL MODULE, ELECTRONIC

A family of direct wired wall modules for use with Honeywell Excel 800, 600, 500, 100, 80, 20 (all fully programmable) and W7750, W7751, W7752, W7753, W7761 controllers. All models have a space temperature sensor; some models have setpoint adjustment, override with LED and fan switch.

- Non linear sensor
- TR21A used for averaging in T7350 application

Honeywell

Part No.	Comments	Operating Range (°F)	Resistance (Ohm)	Length (In.)
TR21	-	45 to 99	20K	5.00
TR21H	Humidity, Network jack	45 to 99	20K	5.00
TR21A	For averaging	45 to 99	10K	4.90
TR21J	Network jack	45 to 99	20K	0.88
TR22	Selectable setpoint, network jack	45 to 99	20K	12.00
TR23H	Humidity, selectable setpoint knob, network jack, override/LED	45 to 99	20K	1.00
TR23	Selectable setpoint, network jack, override/LED	45 to 99	20K	1.00
TR24	Network jack, override/LED	45 to 99	20K	0.88


TR21-WS

WIRELESS WALL SENSOR

All models report space temperature; TR23 models come with setpoint adjustment and override.

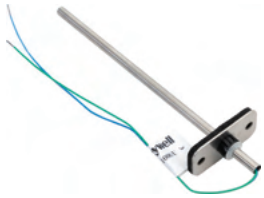
- Wall module to Receiver (point to point) wireless kits can replace any standard wired sensor
- Wireless Kits (wall module and receiver) are pre bound at the factory for quick installation
- Signal Strength LED built into the wall module
- Low battery indication
- Optional dip switches available to bind any wall module to any receiver
- Approximate 5 year battery life with AA Alkaline (included), 7.5 year with Lithium
- Locking screw discourages tampering and battery theft

Honeywell

Part No.	Description	Operating Range (°F)	Use with
TR21-WS	Wireless Temperature Sensor	45 to 99	Spyder, Excel 10 W7750, W7751, W7752, W7753, T7350, T7351, TB8575, WEBs-AX™ I/O Module

Continued on next page

Part No.	Description	Operating Range (°F)	Use with
TR23-WS	Wireless Temperature Sensor with Setpoint (F/C/Relative) and Override Button	45 to 99	Spyder, Excel 10 W7750, W7751, W7752, W7753, T7350, T7351, TB8575, WEBs-AX™ I/O Module
TR21-WK	Wireless Temperature Sensor Kit: includes TR21-WS Sensor and WRECVR Receiver (Bound at Factory)	-	Spyder, Excel 10 W7750, W7751, W7752, W7753, T7350, T7351, TB8575, WEBs-AX™ I/O Module
TR23-WK	Wireless Temperature Sensor Kit: includes TR23-WS Sensor and WRECVR Receiver (Bound at Factory)	-	Spyder, Excel 10 W7750, W7751, W7752, W7753, T7350, T7351, TB8575, WEBs-AX™ I/O Module
WRECVR	Receiver Used with Wireless Wall Sensors TR21-WS and TR23-WS	-40 to 150	TR21-WS and TR23-WS


C7770A1006

DUCT

Direct-wired temperature sensor used to sense discharge or return air temperature in a duct controlled by an Excel 10 Series 2000 controller.

- Primary and/or secondary sensor for use with electronic control systems
- Integral 20K ? non-linear NTC thermistor
- Only available in Long Island NY, West Chester County NY, New York City and Phoenix, AZ. For New York call 914-592-5555. For Phoenix call 877-672-6875.

Honeywell

Part No.	Temperature (°F)	Length (In.)
C7770A1006	45-99	12.80



C7250A1001

AIR, ELECTRONIC

Electronic 20K temperature sensor intended for sensing mixed or discharge air in roof top packaged air conditioning equipment. Thermistor on board with duct mount kit available for use as a probe

Honeywell

Part No.	Use with
C7250A1001	W7220



C7031B2005

DDC

Electronic temperature sensors used with DDC systems.

- Solid state thermistor element provides accurate sensing of temperature changes.

Honeywell

Part No.	Application	Resistance (Ohm)	Use with	Sensor Type	Element Range (°F)	Length (In.)
C7031B2005	Duct Discharge Air	1097 at 77°F	-	PT1000, PTC	-40 to 250	6.00
C7031D2003	Hot or Chilled Water, Includes well	1097 at 77°F	Excel 500	PT1000, PTC	40 to 350	5.00
C7031G2006	Outdoor Air Sensor	1715 at 90°F	W7100 outdoor reset	NTC	-40 to 120	2.75
C7031J2009	Duct Averaging Sensor	1097 at 77°F	Excel 500	PT1000, PTC	40 to 180	144.00



C7023B2005

SENSOR

C7023, C7041D are for immersion mounting sense water temperature.
C7041F sense outdoor air temperature and are weatherproof for outdoor use (knockouts allow for 1/2 in. conduit connection).
20 K? NTC 77°F sensors designed to be used with Honeywell DDC systems (Excel 500, 100, 80, 50, 10)

Honeywell

Part No.	Application	Element Range (°F)	Length (In.)
C7023B2005	Duct Mount	-40 to 250	6.00
C7023B2013	Duct Mount	-40 to 250	12.00
C7023D2001	Hot or Chilled Water	-40 to 250	5.00
C7023F2009	Outdoor	-40 to 158	2.25
C7023J2007	Duct Mount, Averaging	-40 to 250	144.00
C7023K2005	Water/Strap On	-40 to 250	1.69
C7023R2000	Duct Mount, Averaging	-40 to 250	144.00
C7041B2005	Duct Mount	-40 to 250	6.00
C7041B2013	Duct Mount	-40 to 250	12.00
C7041C2003	Duct Mount	-40 to 250	18.00
C7041D2001	Use Well 50001774-001	-40 to 250	5.00
C7041K2005	Water/Strap On	-40 to 250	7.40
C7041F2006	Outdoor	-40 to 250	9.00
C7041J2007	Duct Mount, Averaging	-40 to 250	144.00
C7041R2000[1]	Duct Mount, Averaging	-40 to 250	144.00
C7772A1004	Wall Mount/Flush Type	45 to 99	4.90
C7041P2004	Button, Surface Mount	-40 to 250	1 3/16

1 Flexible Copper Averaging Sensor



C7660A1000

DUCT

C7660 selectable temperature sensor is used with the W7459, W7460 and W72XX economizer controls which are mounted on an M7415/M7215 Actuator. They permit the use of outdoor air as the first stage of HVAC systems. The C7660 Selectable Temperature Sensor is only to be used with single temperature change over with the sensor located in the outdoor air.

- Senses temperature of outdoor air and provides a signal to economizer control with OK or not OK to economize.
- Selectable dip switch provides 8 change over temperature options.
- When temperature of outdoor air is below change over temperature, the outdoor air damper is opened to reduce the cooling load in the building.

Honeywell

Part No.	Length (In.)	Control Signal
C7660A1000	5.00	4 or 20 mA output



ACI10KAND4

THERMISTOR

Thermistor sensors for OEM/ Industrial/DDC applications. High accuracy and interchangeability over a wide temperature range. Non polarity sensitive. CE approval (except for averaging sensors, LCDs and units with leads longer than 3 meters)

- Accuracy: ±0.2°C (from 0 to 70°C)
- Stability: ±0.13°C
- Operating Temperature Range: 32 to 122°F
- Operating Humidity: 0 to 90% RH non condensing
- Interchangeability: ±0.2°C
- Power Dissipation Constant: 3 mW/°C

ACI

Part No.	Description	Resistance (Ohm)
ACI10KAND4	Thermistor sensor, 10KO (Type III), duct, 4"	10K (type III)
ACI10KANR2	Thermistor sensor, 10KO (Type III), wall mount room	10K (type III)
ACI10KCPD4	Thermistor sensor, 10KO (Type II), duct, 4"	10K (type II)
ACI10KCPR2	Thermistor sensor, 10KO (Type II), wall mount room	10K (type II)
ACI10KCPR20	Thermistor sensor, 10KO (Type II), wall mount room-override	10K (type II)
ACI10KCPA12	Thermistor sensor, 10KO (Type II), copper averaging, 12ft	10K (type II)
ACI10KCPI4	Thermistor sensor, 10KO (Type II), immersion, 4"	10K (type II)

CO2 SENSOR


21025761

SMOKE/CO/CO2 MONITOR

AC/DC powered smoke and carbon monoxide (CO) alarm with 10 year battery backup that features supervised wire-free interconnect capability and provides enhanced intelligibility for users. The voice warning feature accompanies the 85dB tone during an alarm event, and helps reduce confusion with verbal announcements such as "Replace alarm" at end of alarm life, and "Hush mode activated" when a nuisance alarm is silenced. The three color LED ring helps users quickly determine standby, alarm, or error mode of the alarm.

- 10-Year Sealed Lithium Battery - eliminates late night battery chirp!
- Voice Notifications
- Bug Screen: Protects alarm from insect ingression
- Flashing LED Status Ring allows easy identification of current state of alarm

Kidde

Part No.	Description
21025761	Carbon Monoxide Alarm AC Powered, Plug-In with Battery Backup
21025788	Battery Operated Carbon Monoxide Alarm
900-0235	AC Plug-in Operated Carbon Monoxide Alarm
21030843	Smoke + Carbon Monoxide Alarm with Indoor Air Quality Monitor
21031042	Wire-Free Interconnected AC Hardwired Combination Smoke & Carbon Monoxide Alarm
21025772	Carbon Monoxide Alarm AC Powered, Plug-In with Battery Backup
21010407A	Worry-Free Hardwired Interconnect Smoke Alarm Sealed Lithium Battery Backup
21010071	Worry-Free Kitchen Sealed Lithium Battery Power Smoke & CO Alarm


C7232B1006

DUCT MOUNT CO2 SENSOR

The C7232 Sensor and Controller is a stand-alone carbon dioxide (CO2) sensor for use in determining ventilation necessity with HVAC controllers. The C7232 measures the CO2 concentration in the ventilated space or duct. The C7232 is used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of CO2 in the space.

Features & Benefits:

- Used for CO2 based ventilation control.
- Models available with LCD that provides sensor readings and status information.
- Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas.
- Device provides voltage or current output based on CO2 levels.
- Models available with SPST relay output.
- Automatic Background Calibration (ABC) algorithm based on long-term evaluation reduces required typical zero-drift check maintenance.

Honeywell

Part No.	Output	Dis-play	Mounting Code
C7232B1006	0/2 - 10 Vdc or 0/4 - 20 mA selectable, w/ one relay output	Yes	Duct
C7232B1014	0-10vdc or 4-20mA	No	Duct


C7632B1002

CO2 SENSOR

The CO sensors offer a fixed 0-2000ppm and fixed 0-10Vdc output. No adjustments are necessary. Like the C7232 sensors, these are for use in determining ventilation necessity with HVAC controllers. The sensor measures the CO concentration in the ventilated space or duct. The sensors are used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of CO in the space.

- Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas.
- Gold-plated sensor provides long-term calibration stability.
- Used for CO based ventilation control
- Automatic Background Calibration algorithm based on long-term evaluation reduces required typical zero-drift check maintenance.

Honeywell

Part No.	Output	Display	Mounting Code	Carbon Dioxide Range
C7632B1002	0-10Vdc Fixed	No	Duct	0 to 2000 ppm, Fixed

ENVIRONMENTAL SYSTEMS CONTROL



W7220A1000

JADE™ ECONOMIZER MODULE

The W7220 Economizer Module is the core of the JADE™ system and provides the basic inputs and outputs to provide simple economizer control. When used with the optional Sylk Bus sensors, the Economizer Module provides more advanced economizer functionality.

- W7220 can be used as a standalone economizer module wired directly to a commercial set back space thermostat and sensors to provide Outdoor Air dry-bulb economizer control.
- W7220 automatically detects sensors by polling the Sylk Bus to determine which sensors are present. If a sensor loses communications after it has been detected, the W7220 Economizer indicates a device fail error on its LCD.
- The module is designed for use with any Honeywell 2 to 10 Vdc or Honeywell Sylkbus communicating actuator.
- Use with sensors: dry bulb temperature and mixed air, C7250A; temperature and humidity, C7400S1000 (optional); DCV (CO) sensor (C7232); humidity, C7600 (optional)
  Y7220A7215 includes the W7220A1000 logic module, (2) C7250A1001 sensors for outside and mixed air dry bulb applications, and M7215A1008 25 lb-in, foot mount, spring returnactuator motor

Honeywell

Part No.	Control Type	Description
W7220A1000	-	Economizer Logic with DCV and Commissioning
YL7220SJ3105	Enthalpy w/ Communicating 44 lb-in DCA	Jade™ Y-Pack Economizer System, includes W7220A1000, OAT sensor (C7400S1000), MAT Sensor (C7250A1001), and DCA OA (MS3105J3030)

THERMOSTAT



TC1101

2 POSITION DUPLEX

Provides on/off control of heating/ cooling systems, lower line voltage, fan coils, motor starters and contactors.

Schneider Electric t.a.c COLMAN

Part No.	Differen-tial	Description
TC1101	2°F	Thermostat, 2-position duplex, 2°F differential
TC1102	2°F	Thermostat, 2-position duplex, 2°F differential
TC1151[1]	1.5°F	Thermostat, 2-position duplex, 1.5°F differential, dual case size, matches TC1161

1 Dual case size—matches TC1161



DUCTSD

DUCT SMOKE DETECTOR, PHOTOELECTRIC

The System Sensor DUCTSD Series duct smoke detectors with a cover integrated smoke test port and flexible configurations provides efficient installation and maintenance.

- 4-Wire Photoelectric, integrated low-flow technology
- Air velocity rating from 100 ft/min to 4,000 ft/min (0.5 m/s to 20.32 m/sec)
- Versatile mounting options: square or rectangular configuration
- Cover integrated smoke test port
- Plug-in sensor offers the latest sensor technology
- Broad ranges for operating temperature (–4°F to 158°F) and humidity (0% to 95% non-condensing)
- Patented sampling tube installs from front or back of the detector with no tools required
- Increased wiring space with an added ?-inch conduit knockout
- One easy-access Test/Reset button
- Patented interconnect feature for multi-fan shutdown
- High contrast terminal designations and wiring diagram label make wiring easy
- Built-in short circuit protection from operator wiring errors
- Two DPDT Form-C relay contacts
- 24 VAC/DC or 120 VAC
- Compatible with existing System Sensor duct smoke products, including remote accessories RTS151 and RTS151KEY

SYSTEM SENSOR

Part No.	Nb. of Wires
DUCTSD	4

DUCT SMOKE DETECTOR



D4120

LOW-FLOW, PHOTOELECTRIC

The InnovairFlex D4120 4-wire photoelectric duct smoke detector features a pivoting housing that fits both square and rectangular footprints and mounts to round or rectangular ductwork. A plug-in sensor head offers improved false alarm immunity and simple installation, testing, and maintenance. The InnovairFlex housing provides ample wiring space, a 3/4 inch conduit knockout, and built-in short circuit protection to prevent damage to sensitive components during installation. As many as 50 InnovairFlex detectors can be interconnected. When one unit senses smoke, all interconnected detectors will switch their relays; only the detector sensing smoke will go into alarm, thus pinpointing the fire source.

- 24 Vac/Vdc or 120 Vac operation
- Built-in reset button
- Remote test station option
- Remote sounder option
- Air velocity rating from 100-4000 fpm
- Two DPDT form-C relay contacts
- Temperature range: -4 to 158°F
- Patented sampling tube installs from front or back of the detector with no tools required
- Listed UL268A

Part No.	Description
D4120	Low-Flow, Photoelectric
D4120W	Low-Flow, NEMA 4, Waterproof



RTS2

MULTI-SIGNALING ACCESSORY

Designed to work with InnovairFlex 4-wire conventional duct smoke detectors. These accessories include a key switch that can be used to select one of two connected sensors to be tested, reset, or both by a push button switch.
The AOS is an optional accessory included with the RTS2-AOS model.

Part No.	Description	Voltage
RTS2	Multi Signaling Accessory	20-29 VDC
RTS2-AOS	Multi Signaling Accessory with Add-On-Strobe (RTS2 & AOS)	20-29 VDC
AOS	Add-On-Strobe for use with RTS2	



DH400OE1

WEATHERPROOF ENCLOSURE

The DH400OE-1 all-weather outdoor enclosure is specifically designed to protect the system sensor high-temperature model DH400, D4120 duct smoke detector from harsh elements. This enclosure provides the protection needed to meet agency requirements in outdoor installations against rain, sleet and snow or indoors against dripping water.

- Special sampling tube gaskets are included as required by U.L. 268A Listing

Part No.	Use With
DH400OE1	DH400, D4120



DST1

SAMPLING TUBES

Used to sample duct airflow for models D4120, D4120W

Part No.	Use for Duct Width (Ft.)	Use With
DST1	to 1	D4120
DST1.5	1 to 2	D4120
DST3	2 to 4	D4120
DST5	4 to 8	D4120
DST-10	8 to 12	D4120


APA151

ANNUNCIATOR

Remote annunciator for InnovairFlex™ duct smoke detectors. Designed for both conventional and intelligent applications. Their red LED provides visual indication of an alarm condition.

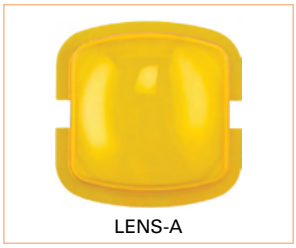
Part No.	Description	Use With
APA151	Remote Annunciator w/ Piezo Horn	DH100, DH400, D4120
RA100Z	Remote Annunciator	InnovairFlex™ duct smoke detectors


P2WK-P

HORN/STROBE

- Operates on either 12V or 24V
- Tamper resistance capability
- Field selectable candela settings on wall and ceiling units
- Automatic selection of 12 or 24 volt operation at 15 and 15/75 candela
- Minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for tone selection
- 3 horn volume settings
- Electrically compatible with existing SpectrAlert products
- Meets UL1971, NFPA72, and ADA signaling requirements

Part No.	Description
P2WK-P	Outdoor Horn/Strobe


LENS-A

COLORED LENSES

Lens attachment for all SpectrAlert Advance plain (non-FIRE marked) indoor or outdoor, ceiling- or wall-mounted strobes

Part No.	Description
LENS-A	Horn/Strobe, Yellow
LENS-B	Horn/Strobe, Blue


RTS151

REMOTE TEST STATION

Remote test stations are automatic fire detector accessories designed to test duct smoke detectors from a convenient location. For 4-wire detectors, the RTS151KEY test station features a multi-colored LED that alternates between steady green and red. For 2-wire detectors, the LED illuminates red for alarm.

Part No.	Description
RTS151	Test Station
RTS151KEY	Test Station with Key Switch

COMBUSTIBLE GAS DETECTOR



GD2A

METHANE AND PROPANE GAS DETECTION

Low voltage electronic detector of combustible, heating type gases. Designed for connection to UL Listed Fire Alarm/Burglary Control Panels. Alarm control panels that work on 12 or 24 VDC can provide battery backup to the GD-2A detectors. For use in ordinary indoor locations of family living units and office workspaces. Intended for installation in buildings in non-hazardous locations such as residences, retail stores, office buildings, and institutional buildings. This combustible gas detector has been evaluated by UL for methane (natural gas) and propane (LP) gas. It is NOT designed to detect smoke, fire or carbon monoxide.

Features

- Supervised Sensor
- SPDT Alarm and N.C. Trouble Relay
- Can be self-restoring or latching
- Solid State Electronic sensors: no maintenance or recalibration
- Voltage: 12 to 24 VAC or VDC

Part No.	Description
GD2A	Combustible Gas Detector For Use With Alarm Control Panels



GD6

METHANE, PROPANE OR HYDROGEN GAS DETECTION

Combustible gas detectors will respond to a wide range of hydrocarbons, including aerosol sprays, cleaning solvents, paint thinner and other common volatile organic compounds. This low voltage detector provides automatic feedback and fan or valve control that can help reduce combustible gas concentrations in parking garages, battery rooms, maintenance facilities, and other locations that require combustible gas detection.

Part No.	Description
GD6	Combustible Gas Detector Controller and Transducer

THERMOSTAT



CM6

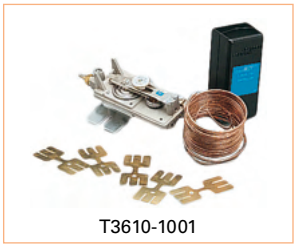
DETECTOR, CONTROLLER AND TRANSDUCER

Electronic detection system used to measure the concentration of CO and provide feedback and automatic exhaust fan or valve control to help reduce CO concentrations in parking garages, maintenance facilities or other commercial applications.

- Fan relay actuation: selectable at 15, 25, 35 (default), 50 or 100 ppm CO
- Output: Fan relay, Alarm relay and 4-20mA current loop
- Controls: Digital display (0-200 ppm), buzzer, fan delay, fan minimum runtime
- Mounts on a standard 4" x 4" electrical box
- 5 A SPDT fan relay controls valves, louvers or exhaust fans
- 0.5 A N.O. or N.C alarm relay connects to warning devices or control panels
- Factory calibrated
- Supervised system design: detector problem will cause the fan and alarm relay to activate
- Power: 3 W (max) from 12 to 24 VAC or 12 to 32 VDC

Part No.	Description
CM6	Carbon Monoxide Detector, Controller and Transducer

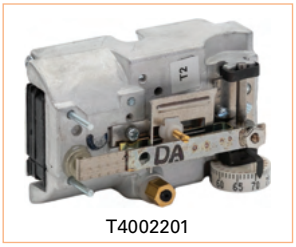
THERMOSTAT


T3610-1001

LOW VOLUME

The T-3610 pneumatic thermostat is a low volume proportional controller providing temperature control for a wide variety of applications including return air, mixed air, and unit ventilator control.

Part No.	Includes
T3610-1001*	8′ Averaging Element, 5 Holders
T36101003*	18″ Rigid Stem Element with Duct Mounting Bracket

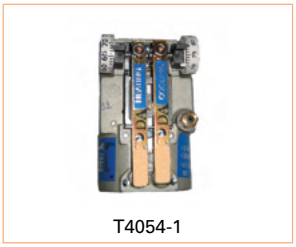

T4002201

HIGH VOLUME, SINGLE TEMPERATURE

The T4002 is a high volume output, single temperature thermostat. Note: Requires mounting bracket and cover to complete installation

Part No.	Action	Mounting Code
T4002201*[1]	DA	Horizontal
T4002203*[1]	DA	Vertical
T4002204*[1]	RA	Vertical

1 Requires mounting bracket and cover to complete installation


T4054-1

2 PIPE, HIGH VOLUME, ENERGY MANAGER

The T-4054 heating-cooling, energy manager thermostat is a high volume output, with an adjustable deadband of 0 to 30°F between heating and cooling set points. Note: Requires mounting bracket and cover to complete installation

Part No.	Action
T4054-1*[1]	DA
T4054-2*[1]	RA

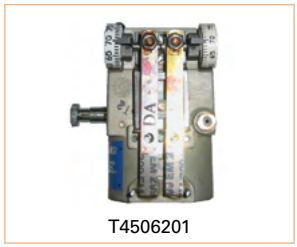
1 Requires mounting bracket and cover to complete installation


T41001

2 PIPE, LOW VOLUME, SINGLE TEMPERATURE

The T4100 is a low volume output, single temperature thermostat.

Part No.	Action
T41001*	DA
T41002*	RA


T4506201

2 PIPE, HIGH VOLUME, DAY/NIGHT

The 4506 is a high volume output, dual temperature, dual dial thermostat. The T4506 provides individual day and night, or two setpoint temperature control. Note: Requires mounting bracket and cover to complete installation

Part No.	Description
T4506201*	Direct Acting, Horiz. Mounting, w/Indexing Switch, Switchover 17 psi
T4506202*	Direct Acting, Vert. Mounting, w/Indexing Switch, Switchover 17 psi
T4506203*	Direct Acting, Horiz. Mounting, w/o Indexing Switch, Switchover 17 psi
T4506204*	Direct Acting, Vert. Mounting, w/o Indexing Switch, Switchover 17 psi
T4506217*	Reverse Acting, Horiz. Mounting, w/o Indexing Switch, Switchover 17 psi


T46001

2 PIPE, LOW VOLUME, ENERGY MANAGER

The T-4600 is a low volume output, energy managing, heating-cooling thermostat. The independent setpoints can result in a deadband to encourage energy conservation by eliminating heating and cooling overlap.

Part No.	Action
T46001*	DA

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMOSTAT


T4756205

2 PIPE, HIGH VOLUME, DUAL TEMPERATURE

The T-4756 is a high volume output, dual-temperature, dual-dial, heating-cooling thermostat. The T-4756 provides automatic changeover between direct and reverse actions when supply pressure changes from 15 to 20 psig.

Note: Requires mounting bracket and cover to complete installation

Part No.	Action	Mounting Code
T4756205*[1]	15 psig Reverse/20 psig Direct	Horizontal

1 Requires mounting bracket and cover to complete installation


T31002

SINGLE TEMPERATURE, SINGLE PRESSURE

- External set point adjustment
- Includes protective snap-on cover
- Includes pointer tabs to restrict the temperature adjustment range to as little as ±2.5°F
- Factory calibrated for a nominal adjustment of ±7.5°F, from a set point of 75°F
- Includes attached mounting bracket

Part No.	Action
T31002*	DA


T4752201

2 PIPE, HIGH VOLUME, ENERGY MANAGER

A high volume output, heating-cooling thermostat. Provides automatic changeover between Direct Acting (DIR) and Reverse Acting (REV) when supply pressure changes from 15 to 20 psig (105 to 40 kPa). Includes fahrenheit dial Order cover and mounting bracket separately

Part No.	Action	Pressure Range (psig)
T4752201*	DA/RA	15-DA/20-RA
T4752205*	RA/DA	20-DA/15-RA


T40002138

COVERS

Covers for T4000 Series thermostats.

Part No.	Material	Thermometer	Mounting Code	Window
T40002138*	Beige Plastic	No	Horiz. or Vert	No
T40002139*	Beige Plastic	No	Horiz.	No
T40002140*	Beige Plastic	Yes	Horiz.	No
T40002141*	Beige Plastic	No	Horiz.	1
T40002142*	Beige Plastic	Yes	Horiz.	1
T40002145*	Beige Plastic	No	Vert.	1
T40002146*	Beige Plastic	Yes	Vert.	1
T40003139*	White Plastic	No	Horiz.	No
T40003141*	White Plastic	No	Horiz.	1


T4002124

ACCESSORIES

See Thermostat Conversion Kit section for additional mounting brackets.

Part No.	Description
T4002124*	T4000 Thermostat Mounting Bracket


T4516201

3 PIPE, HIGH VOLUME, DAY NIGHT

A high volume output, dual temperature, dual dial thermostat. The T-4516 provides individual day and night control, or weekend setback.

- Available in direct acting with auto switchover at 17 psig
- Additional output air terminal which can be used as an on-off switchline pressure
- Includes Fahrenheit dial
- Provided with an optional manual indexing switch that permits you to restore the day temperature of the individual thermostat without affecting the other system thermostats.
- Indexing switch can be unlatched manually or will automatically reset with the day cycle.

Part No.	Action
T4516201*	Dual DA

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMOSTAT KIT



T4002301

2 PIPE, HIGH VOLUME CONVERSION KIT

The T4002-30X thermostat with cover and two-pipe conversion kits feature a T4002201 (DA) or a T4002202 (RA) thermostat. The kits also contain a white or beige cover and cover plate, a selection of faceplates, and all other necessary parts and mounting hardware required to convert a wide array of two-pipe competitors' thermostats.

Part No.	Action	Color
T4002301*	DA	White
T4002302*	RA	White
T4002303*	DA	Beige
T4002304*	RA	Beige

THERMOSTAT REMODEL KIT



T4000605

CONVERSION KIT

The T-4000-605 (beige) universal conversion kits provide all the parts necessary to remodel existing room installations of both Johnson Controls and non-Johnson Controls thermostats. These kits can be applied to existing instrument installations with exposed or concealed tubing. Includes terminal connector and tubing, T-400 air fittings, adjustable pipehead, tube couplings and clamps, and mounting hardware. Convert T400 models to T4000. Note: Requires T4002 thermostat and cover

Part No.	Description
T4000605*	Universal Conversion Kit
T4000611*	Bakelite Back Adaptor Style for Dual Temperature Vertical or Horizontal Instruments with Two Pipehead Adaptors

TEMPERATURE TRANSMITTER



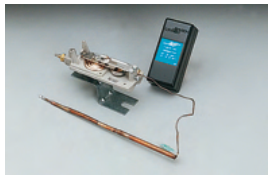
T5002201

ROOM TEMPERATURE

The T-5002 Series room transmitters measure space or mass temperature and transmit a proportional 3 to 15 psig pneumatic output signal to an indicator, receiver-controller, or building automation system (BAS) for automatic temperature control.

Note: Requires T4002 mounting bracket and cover to complete installation

Part No.	Action	Temperature (°F)
T5002201*	DA	50 to 100
T5002202*	DA	60 to 85



T52101001

COPPER BULB

The T-5210 pneumatic temperature transmitter measures temperature and converts this measurement to an air pressure signal that is transmitted to a pneumatic receiver, controller, or receiver-indicator.

Part No.	Operating Temperature (°F)	Capillary Length
T52101001*	50 to 100	5 1/2″
T52101002*	0 to 100	5 1/2″
T52101004*	40 to 240	5 1/2″
T52101008*	50 to 150	5 1/2″
T52101113*	-40 to 160	48″
T52101114*	0 to 100	48″



T52101007

COPPER AVERAGING

The T-5210 pneumatic temperature transmitter measures temperature and converts this measurement to an air pressure signal that is transmitted to a pneumatic receiver, controller, or receiver-indicator.

Part No.	Element Length	Operating Temperature (°F)
T52101007*	8′	50 to 150
T52101009*	8′	0 to 100

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CONTROLLER


T53121

RECEIVER CONTROLLER, T5312 SERIES

The T-5312 receiver-controller directly controls dampers, valves, and other devices in a pneumatic transmission system. The T-5312 produces a proportional 3 to 15 psig pressure signal from a remotely located transmitter.

Part No.	Action
T53121*	Proportional


T80001

REMOTE BULB, TEMPERATURE

The T-8000 bulb element thermostat provides proportional, two-position, direct action, or reverse action temperature control. The T-8000 is designed for applications which require the sensing element to be located where extreme conditions do not permit controller mounting or where operational adjustments to the controller would be inconvenient. This relay-type instrument is ideally suited for installations requiring the controller to be mounted on a local control panel. Proportional action, non-compensated capillary, includes two-sided dial: -10 to 124°F or 110 to 244°F.

Part No.	Element	Capillary Length
T80001*	Bulb	4′
T80003*	Bulb	15′


T58001

RECEIVER CONTROLLER, T5800 SERIES

The T-5800 pneumatic receiver-controller is designed for use with remote temperature, humidity, or pressure transmitters that are connected to a control variable (CV) input. The controller provides precise control of pneumatic devices. The T-5800 is capable of providing restricted supply air to low volume remote transmitters, reducing the number of air line connections needed between instruments to only one line. The CV input accepts the transmitted output of any pneumatic device with a calibrated output of 3 to 15 psig.

Part No.	Action	Input
T58001*	Proportional	Single
T58003*	Proportional	Dual


P38001

RESET VOLUME, VAV

The P-3800 reset volume controller regulates the flow of air in variable air volume boxes. The P-3800 controls the output volume, between adjustable minimum and maximum limits, in response to a reset signal from a thermostat or some other master controller.

Part No.	Thermostat Type	Configuration
P38001*	DA, RA	(DADR), (RARR)
P38002*	RA, DA	(DARR), (RADR)

ACTUATOR, DAMPER


D31531

3" STROKE

The D-3153 pneumatic actuator is a multipurpose positioning device used primarily for operating ventilating dampers in response to the output signals of a pneumatic controller or electro-pneumatic transducer. The D-3153 can be used with dampers up to a maximum area of 16 square feet for proportional volume control, and 25 square feet for two-position actuation, provided that the torque requirements are compatible with the specific application.

Part No.	Nominal Spring Range (psig)	Includes
D31531*	8 to 13	Pilot Positioner, Universal Mounting Bracket
D31532*	8 to 13	Universal Mounting Bracket
D31533*	5 to 10	Universal Mounting Bracket
D31535*	8 to 13	Auxiliary Mounting Bracket
D31537*	3 to 7	Auxiliary Mounting Bracket


D32444

4", 6" STROKE, SWIVEL MOUNT

The D-3240 Series pneumatic piston actuators are multipurpose positioning devices designed for operating inlet vanes on centrifugal fans and compressors in direct response to the output signal of a pneumatic controller. These actuators can also be used on other applications that require a large amount of positioning power from a single actuator, such as large damper applications, provided that the damper is designed to withstand the high torque capabilities of the actuator.

Part No.	Nominal Spring Range (psig)	Stroke Distance (In.)	Includes
D32444*	8 to 13	4	Swivel Mount Bracket, Clevis, and Crank Arm
D32461*	8 to 13	6	Swivel Mount Bracket, Clevis, and Crank Arm

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


D40731

3" STROKE

The D-4073 pneumatic actuator is a multipurpose positioning device used to accurately position small dampers primarily on unit ventilator, variable air volume terminal units, and small ventilating dampers in response to output signals of a pneumatic controller or electro-pneumatic transducer. The actuator is also recommended for use on other air flow control dampers in interior locations up to a maximum area of 6.75 square feet for proportional volume control, and 11.7 square feet for two-position actuation, provided that the torque requirements are compatible with the specific application. Where precision sequential operation is desired, or additional positioning power is necessary, use a D-9502 pilot positioner. Up to four more D-4073 actuators may be slaved from one pilot positioner for coupled dampers.

Part No.	Nominal Spring Range (psig)	Includes
D40731*	8 to 13	D9502, Universal Mounting Bracket


D95025

ACTUATOR POSITIONER

The D-9502 pneumatic damper actuator positioners are precision relay devices used to adjust and maintain damper actuators in exact positions on those applications requiring precise or otherwise special damper positioning.

- Provides dynamic stabilization and/or sequential control of pneumatic damper actuators
- For D3246 also order spring D9502612, and pilot spring bracket D9502100

Part No.	Use with
D95025*	D3244/D3246 Actuator
D95028*	D3153 Actuator
D950212*	D4073 Actuator

VALVE ACTUATOR


V30001

PNEUMATIC ACTUATOR

Pneumatic valve actuators are designed to accurately position steam or water valve modulating plugs in response to a pneumatic signal from a controller. The actuators have a molded synthetic rubber diaphragm design.

- Universal valve mounting design is compatible for use on all Johnson Controls valves with V-3000 mounting configurations

Part No.	Description
V30001*	Valve Actuator, Replaceable Diaphragm

VALVE ACTUATOR ASSEMBLY


VG7241CT+3008B

TWO-WAY, NORMALLY OPEN, PDTC, BRONZE VALVE

- NPT end connections

	Connection			
Part No.	Size (In.)	Type	Flow (Cv)	Nominal Spring Range (psig)
VG7241CT+3008B*	1/2	NPT	0.73	3 to 6
VG7241ET+3008B*	1/2	NPT	1.8	3 to 6
VG7241ET+3008D*	1/2	NPT	1.8	4 to 8
VG7241ET+3008E*	1/2	NPT	1.8	9 to 13
VG7241GT+3008B*	1/2	NPT	4.6	3 to 6
VG7241GT+3008D*	1/2	NPT	4.6	4 to 8
VG7241GT+3008E*	1/2	NPT	4.6	9 to 13
VG7241LT+3008B*	3/4	NPT	7.3	3 to 6
VG7241LT+3008D*	3/4	NPT	7.3	4 to 8
VG7241LT+3008E*	3/4	NPT	7.3	9 to 13
VG7241NT+3008B*	1	NPT	11.6	3 to 6
VG7241NT+3008E*	1	NPT	11.6	9 to 13
VG7241PT+3008B*	1 1/4	NPT	18.5	3 to 6
VG7241PT+3008D*	1 1/4	NPT	18.5	4 to 8
VG7241RT+3008B*	1 1/2	NPT	28.9	3 to 6
VG7241RT+3008E*	1 1/2	NPT	28.9	9 to 13
VG7241RT+823C00*	1 1/2	NPT	28.9	3 to 6
VG7241ST+823C00*	2	NPT	46.2	3 to 6
VG7251CT+3008B*	1/2	Union Globe	0.73	3 to 6
VG7251ET+3008B*	1/2	Union Globe	1.8	3 to 6
VG7251LT+3008B*	3/4	Union Globe	7.3	3 to 6
VG7251NT+3008B*	1	Union Globe	11.6	3 to 6

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VALVE ACTUATOR ASSEMBLY



VG7441CT+3008E

TWO-WAY, NORMALLY CLOSED, PDTO, BRONZE VALVE

- NPT end connections

	Connection		
Part No.	Size (In.)	Flow (Cv)	Nominal Spring Range (psig)
VG7441CT+3008E*	1/2	0.73	9 to 13
VG7441ET+3008B*	1/2	1.8	3 to 6
VG7441ET+3008D*	1/2	1.8	4 to 8
VG7441ET+3008E*	1/2	1.8	9 to 13
VG7441GT+3008D*	1/2	4.6	4 to 8
VG7441GT+3008E*	1/2	4.6	9 to 13
VG7441LT+3008E*	3/4	7.3	9 to 13
VG7441NT+3008E*	1	11.6	9 to 13
VG7441PT+3008E*	1 1/4	18.5	9 to 13
VG7441RT+3008E*	1 1/2	28.9	9 to 13
VG7441RT+823E00*	1 1/2	28.9	9 to 13
VG7441ST+823E00*	2	46.2	9 to 13



VG7842ET+3008B

THREE-WAY, BRONZE

- NPT end connections

	Connection		
Part No.	Size (In.)	Flow (Cv)	Nominal Spring Range (psig)
VG7842ET+3008B*	1/2	1.8	3 to 6
VG7842ET+3008D*	1/2	1.8	4 to 8
VG7842ET+3008E*	1/2	1.8	9 to 13
VG7842GT+3008D*	1/2	4.6	4 to 8
VG7842GT+3008E*	1/2	4.6	9 to 13
VG7842LT+3008B*	3/4	7.3	3 to 6
VG7842LT+3008D*	3/4	7.3	4 to 8
VG7842LT+3008E*	3/4	7.3	9 to 13
VG7842NT+3008B*	1	11.6	3 to 6
VG7842NT+3008D*	1	11.6	4 to 8
VG7842NT+3008E*	1	11.6	9 to 13
VG7842PT+3008B*	1 1/4	18.5	3 to 6
VG7842PT+3008E*	1 1/4	18.5	9 to 13
VG7842RT+3008D*	1 1/2	28.9	4 to 8
VG7842RT+3008E*	1 1/2	28.9	9 to 13
VG7842RT+823D00*	1 1/2	28.9	4 to 8
VG7842RT+823E00*	1 1/2	28.9	9 to 13
VG7842ST+823D00*	2	46.2	4 to 8
VG7842ST+823E00*	2	46.2	9 to 13



V37661002

FLARE VALVE

These 1/2" two-way and three-way flare valves accurately regulate the flow of hot and cold water in small HVAC terminal units, including fan coils, perimeter radiation, and reheat coils.

Part No.	Type	Size (In.)	Flow (Cv)	Nominal Spring Range (psig)
V37661002*	Two-Way, NO	1/2	1.7	3 to 6
V37661003*	Two-Way, NO	1/2	3.2	3 to 6
V43321009*	Three-Way	1/2	1.7 NO, 2.3 NC	4 to 8

SWITCH



P10BC7

PRESSURE ELECTRIC, AIR

These pressure controls open or close electrical circuits from a change in operating air pressure.

- For pneumatic systems, pumps, or small air compressors
- Pressure to electric switch

Part No.	Stages	Switch	Pressure Differential	Switch Differential (psi)	Connection Size (In.)	FLA (@ 240 V)
P10BC7*	1	SPDT	3 to 20 psi	2, Fixed	Barbed	8

VALVE AIR SOLENOID



V24102

3-WAY

Used in applications where an electrical circuit operates a pneumatic control device. This valve diverts the air signal to the pneumatic device when the coil is energized or de-energized, depending on the choice of air connection.

- Air connections:NO or NC/Common
- compact size with durable, solid brass construction
- positive air seal
- Can be used in smoke control applications

Part No.	Voltage
V24102*	120

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



V11HAA100

3-WAY

The V11 three-way solenoid valve is used in applications where an electrical circuit operates a pneumatic control device.

- 50/60 Hz

Part No.	Voltage
V11HAA100*	110-120
V11HGA100*	24



V61351

3-WAY

Switches the flow of air from one air line to another. For day night switching, heating/cooling, enthalpy switchover

- V6135: no exhaust function
- V6137: after switchover, the non active line exhausts to atmosphere

Features

- Fast acting two-position switching mechanism
- Factory supplied with an integral mounting bracket for surface mounting

Part No.	Pressure Range (psig)
V61351*	2 to 4
V61352*	11 to 15
V61353*	15 to 19

TRANSDUCER, ELECTRO PNEUMATIC



EP80001

The EP-8000 electro-pneumatic transducer converts a 0 to 10 Vdc or 4 to 20 mA signal from an electric controller into a proportional pneumatic output pressure signal.

- Proportional: direct acting

Part No.	Input Range	Input Type	Output Type	Output Range
EP80001*	.5 to 9 Vdc	Voltage	Low Volume	1 to 18 psi
EP80002*	.25 to 9.5 Vdc	Voltage	High Volume	5 to 19 psi
EP80003*	4 to 20 mA DC	Current	Low Volume	3 to 15 psi
EP80004*	4 to 20 mA DC	Current	High Volume	3 to 15 psi

RELAY



C52302

SIGNAL LIMITER

The C-5230 pneumatic signal limiter imposes high and/or low limits on any pneumatic signal.

Part No.	Description
C52302*	High or Low Limit
C52303*	High and Low Limit



C52263

SIGNAL TRANSMITTER

The C-5226 pneumatic signal transmitter repeats pneumatic transmission signals or selects the higher or lower of two pneumatic signal levels directly from the output of a controller. The C-5226 may also be used as a high or low signal limiter or a differential switchover device.

Part No.	Description
C52263*	Signal Repeater



C95061

SWITCHING CUMULATOR

The C-9506 air switching cumulator switches output pressure from zero to full supply pressure when the pilot pressure reaches the switch point.

- Switch point: 2-12 psig
- Differential: 1 psig

Part No.	Differential	Description
C95061*	1 psig	2 Position, DA

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

RELAY


R20801

BOOSTER

The R-2080 booster relay operates as a pneumatic repeater and volume amplifier. The pilot signal is repeated at its output at a 1:1 ratio. Amplifies a pilot signal from a non-relay, low volume controller to a large volume output signal

Part No.	Description
R20801*	Booster Relay


A4000138

PRESSURE REDUCING STATION

The remote mounted pressure reducing station regulates the output pressure in a pneumatic system to within 0.02 psi with a 20 psi variation in input pressure.

- Input maximum: 300 psig
- Output: 0-50 psig
- Flow capacity: 25 scfm
- Safety relief valve: 25 psi

Part No.	Description
A4000138*	Pressure Reducing Station


R40003

MINIATURE PRESSURE REGULATOR

The R-4000 miniature pressure regulator provides a method to readjust the setpoint of pneumatic controllers in low volume applications. The output pressure varies in proportion to the rotation of the adjusting knob.

Part No.	Output Range
R40003*	12 psig


R1301

PRESSURE REDUCING VALVE

The R130 air pressure reducing valve reduces the primary air supply pressure to a selected pressure in a compressed air system. The reducing valve can also be used as a minimum set point regulator. When used as minimum setpoint regulator, an R3710 Series .005 restrictor must be used in output line

Part No.	Fitting Size (In.)	Flow (SCFM)
R1301*	1/8	1
R13015*	3/8	20


A40001037

FILTER, OIL REMOVAL

Combining coalescing and activated carbon filters in series provides clean, oil free air by removing both oil aerosols and vapors in pneumatic control systems.

Part No.	Flow (SCFM)	Connection Size (In)	Type
A40001037*	1.50 Max	1/4	Barb
A40001048*	17 Max	3/8	FPT
A40001049*	30 Max	3/8	FPT
A40006001*	50 Max	3/8	FPT


A4000604

FILTER, REPLACEMENT CARTRIDGES

Part No.	Type
A4000604*	Coalescing
A4000605*	Coalescing
A4000632*	Carbon
A4000633*	Carbon
A4110604*	Coalescing

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR PRESSURE GAUGE


G20105

The G2010 air pressure gauge provides continuous indication of air pressure in pneumatic control systems.

Part No.	Gauge Size (In.)	Pressure Range (psi)	Stem Mount (In.)	Mounting
G20105*	1 1/2	0 to 30	1/8 NPT Center Back	Stem
G201011*	2	0 to 30	1/8 NPT Center Back	Stem
G201023*	2	0 to 100	1/8 NPT Center Back	Stem

3 1/2" DIAL


T55001052

Part No.	Temperature (°F)
T55001052*	0 to 100
T55001055*	40 to 240

2 1/2" DIAL


T55021002

Part No.	Temperature (°F)
T55021002*	0 to 100
T55021003*	50 to 150

RESTRICTOR, IN-LINE, COMPRESSION


R37101005

Part No.	Description
R37101005*	For Inserting 1/4" Tubing, Compression Connection .005", Red
R37101007*	For Inserting 1/4" Tubing, Compression Connection .007", Aqua

RESTRICTOR, IN-LINE, BARBED


R37102005

Part No.	Description
R37102005*	1/4" Barbed Fitting, .005 In.
R37102007*	1/4" Barbed Fitting, .007 In.

RESTRICTOR, IN-LINE, BARBED


R37103007

Part No.	Description
R37103007*	1/4" Barbed Connection, .007 In.

RESTRICTOR, DIODE TEE

The R-3712 diode restrictor tee allows air flow through the bottom of the tee, in one direction only. The R-3712 is designed for inline installation using 1/4" O.D. flexible tubing.

Part No.	Description
R37123007*	1/4" Barbed Connection, .007 In.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMOSTAT


TP970A2004

2 PIPE, SINGLE SETPOINT

Two pipe, single setpoint, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

Honeywell

- Throttling range: 2-10°F

Part No.	Action	Scale Range	Includes
TP970A2004	DA	60 to 90°F	Cover not Included
TP970A2012	DA	40 to 70°F	Cover not Included
TP970A2038	DA	60 to 90°F	Modernization Kit
TP970A2145[1]	DA	60 to 90°F	Convertastat™ Kit
TP970B2002	RA	60 to 90°F	Cover not Included
TP970B2077[1]	RA	60 to 90°F	Convertastat™ Kit

1 Includes universal adapter wall plate, universal cover


TP971A2003

2 PIPE, SETBACK

Pneumatic thermostat with night setback used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

Honeywell

Part No.	Includes
TP971A2003	Order Cover Separately
TP971A2102	Convertastat™ Kit Includes Adapter Plate, Wall Plate & Satin Chrome Cover


TP972A2036

2 PIPE, HEATING/COOLING

Two-pipe, one- or two-temperature, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

- Throttling range: 2-10°F
- DA heating 18 psi
- RA cooling 13 psi

Honeywell

Part No.	Description	Scale Range	Comments
TP972A2036	2 Pipe, 2 Temp.	55 - 75°F Heating, 60 - 90°F Cooling	Two Concealed Setpoint Knobs 78°F Min. Cooling, 72°F Max. Heating, Order Cover Separately
TP972A2002	2 Pipe, 1 Temp.	60 to 90°F	Sensor only


TP973A2076

1 OR 2 PIPE, SINGLE TEMPERATURE

One-pipe or two-pipe, single temperature, low capacity, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

- Scale range: 60-90°F
- Throttling range: 2-10°F
- Requires .005 in. restrictor for one-pipe installation

Honeywell

Part No.	Description	Scale Range	Features
TP973A2076	1 or 2 Pipe, DA1 Temp., Low Capacity	60 to 90°F	Order Cover Separately
TP973B2066	1 or 2 Pipe, RA1 Temp., Low Capacity	60 to 90°F	Order Cover Separately


LP907A1002

1 PIPE, AIRSTREAM

One-pipe, single setpoint, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Commonly used as discharge controllers for unit ventilators.

- Pressure ratings:
- Operating: 25 psi
- Supply: 3 to 15 psi
- Throttling range: 10-70°F

Honeywell

Part No.	Scale Range	Throttling Range	Type
LP907A1002	40 to 140°F	10 to 70	1-Pipe, DA


LP916A1019

2 PIPE, REMOTE BULB

Two-pipe, single temperature, unit mounted, remote bulb pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

Honeywell

Part No.	Scale Range	Throttling Range	Description	Comments
LP916A1019	65 to 85°F	3.5	2-Pipe, DA, Single Temp., .007 in Restriction	For Unit Ventilators, 1/2" x 5 7/8" Bulb
LP916A1134	65 to 85°F	3.5	2-Pipe, DA, Single Temp., .005 in Restriction	For Induction, Fan Coil Systems, 3/8" x 7" Bulb
LP916B1082	65 to 85°F	3.5	2-Pipe, 18 psi Heating DA, 13 psi Cooling RA, Single Temp., .005 in Restriction	For Induction, Fan Coil Systems, 3/8" x 9" Bulb

TRANSMITTER



LP914A1003

TEMPERATURE, INSERTION

One-pipe, direct-acting temperature sensor used with RP908/RP920 controllers to provide proportional control of pneumatic valve or damper actuators. Rod and tube insertion element for duct, well, or through-the-wall mounting.

- Controls are one-pipe direct acting

Honeywell

Part No.	Sensing Range (°F)	Element Length	Mounting Code
LP914A1003	-40 to 160	15″	Duct
LP914A1011	-40 to 160	15″	Well
LP914A1052	40 to 240	7″	Well
LP914A1060	-40 to 160	7″	Well
LP914A1144	25 to 125	15″	Duct



TP974A2000

TEMPERATURE, WALL MOUNT

One-pipe or two-pipe direct-acting temperature sensor used with RP908/RP920 controllers to provide proportional control of pneumatic valve and damper actuators.

- 1 or 2 pipe, DA

Honeywell

Part No.	Sensing Range (°F)	Type
TP974A2000	50-100	1 or 2 Pipe, DA Less Cover



LP915A1044

TEMPERATURE, AVERAGING

One-pipe, direct-acting temperature sensor, used with RP908 or RP920 controllers to provide proportional control of pneumatic valve or damper actuators. Averaging, liquid-filled element for duct mounting.

Honeywell

Part No.	Sensing Range (°F)	Element Length	Mounting Code
LP915A1044	0-200	18 1/2″	Duct



HP971A1008

HUMIDITY

One- or two-pipe, direct-acting humidity sensor used with RP908/RP920 controllers to provide proportional control of pneumatic valve or damper actuators in systems requiring humidification or dehumidification control.

- Pressure ratings: Operating: 25 psi; Supply: 3 to 15 psi

Honeywell

Part No.	Type	Scale Range
HP971A1008	1-, 2-Pipe, DA	15 to 75%

HUMIDISTAT



HP970A1009

Two-pipe, single setpoint, pneumatic humidistat used to provide proportional control of pneumatic valves on humidification or dehumidification systems.

- Direct Acting (DA) and Reverse Acting (RA) models are available.

Honeywell

Part No.	Type	Scale Range	Throttling Range	Comments
HP970A1009	2-Pipe, DA	15 to 75%	3 to 15	Order Cover Separately
HP970B1007	2-Pipe, RA	15 to 75%	3 to 15	Order Cover Separately



LP920A1005

REMOTE BULB TEMPERATURE

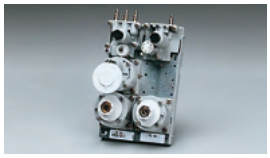
Two-pipe, single temperature, pneumatic temperature controller used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

- Control is direct-acting, single temperature
- Scale range: 30-150°F
- Throttling range: 5-25°F

Honeywell

Part No.	Element	Capillary Length	Scale Range	Throttling Range
LP920A1005	Averaging, Length	96″	30 to 150°F	5 - 25°F
LP920A1021	3/8 x 5 1/4″ Bulb	10′	30 to 150°F	5 - 25°F
LP920A1039	3/8 x 5 1/4″ Bulb	60″	30 to 150°F	5 - 25°F

CONTROLLER



RP920A1025

RECEIVER CONTROLLER

Proportional, high capacity, single or dual input pneumatic controller used in conjunction with remote sensors to provide proportional (P) or proportional plus (P+I) control of temperature, humidity, pressure, or dewpoint for heating and air conditioning systems.

- Input signal: 3-15 psi
- Output signal: 3-13 psi

Honeywell

Part No.	Action	Input	Type	Remote Adjustment
RP920A1025	DA	Single	Proportional	With
RP920A1033	DA	Single	Proportional	Without
RP920B1031	DA	Dual	Proportional	Without
RP920B1056	RA	Dual	Proportional	Without

ACTUATOR, DAMPER



MP909D1227

MP909D SERIES

Used for pneumatic proportional control of variable volume terminal units and small dampers.

- Damper load area: 3 sq. in.
- 2 3/8" stroke

Honeywell

Part No.	Stroke Distance (In.)	Spring Range
MP909D1227	2 3/8	5 to 10



MP909E1018

MP909E SERIES

Used for pneumatic proportional control of dampers and high velocity air valves. The MP909E has an optional adjustable stroke feature.

- Damper load area: 6.6 sq. in.

Honeywell

Part No.	Stroke Distance (In.)	Spring Range	Includes
MP909E1018	4.0	3 to 13	Mounting Bracket, Ball Joint
MP909E1026	4.0	3 to 13	
MP909E1034	4.0	5 to 10	Mounting Bracket, Ball Joint, Linkage Kit
MP909E1174	3.1	9 to 13	Mounting Bracket, Ball Joint
MP909E1349	4.0	3 to 13	Internal N.C. Trunnion Bracket
MP909E1364	4.0	5 to 10	External Trunnion Bracket

ACTUATOR



MP918B1006

HEAVY DUTY ACTUATOR

Used for proportional control of medium to large-size dampers in HVAC systems. The MP918 is a rolling diaphragm, piston-type actuator.

- Damper load area: 23.8 sq. in.
- 3 1/2" stroke, 6" stroke (MP920)

Honeywell

Part No.	Stroke Distance (In.)	Spring Range	Includes
MP918B1006	3 1/2	3 to 13	External Mounting Bracket, Crank Arm
MP918B1030	3 1/2	3 to 13	Actuator Only
MP920B1002	6	7 to 13	Actuator Only



MP953C1000

COIL VALVE ACTUATOR

Pneumatic actuators provide proportional control of steam or hot or cold liquids in HVAC systems by operating V33XX, V34XX, V5011 and V5013 valve assemblies.

- 3/4" valve travel
- DA Actuator + DA Valve Body = Normally Open
- RA Actuator + DA Valve Body = Normally Closed

Honeywell

Part No.	Diameter (In.)	Action	Spring Range	Includes
MP953C1000	5	DA	2-7	Standard
MP953C1018	5	DA	8-12	Standard
MP953C1026	5	DA	4-11	Standard
MP953C1067	8	DA	2-7	Standard
MP953C1075	8	DA	8-12	Standard
MP953D1107	7 1/8	RA	8-13	EPDM Diaphragm
MP953D1172	7 1/8	RA	3-7	EPDM Diaphragm
MP953E1319	5	DA	4-11	Positive Positioner 5 psi span
MP953E1376	8	DA	4-11	Positive Positioner 5 psi span
MP953F1101	7 1/8	RA	8-13	Positive Positioner 5 psi span, EPDM Diaphragm



MP958A1017

BRAUKMAN ACTUATOR

The MP958 pneumatic valve actuator is direct-acting and used only with Honeywell-Braukman V5852A2xx, V5862A2xx, V5853A2xx, and V5863A2xx terminal unit valves to control hot and/or chilled water.

Honeywell

Part No.	Pressure Range (psi)
MP958A1017	3 to 10
MP958A1025	8 to 11

SWITCH



P658A1013

PNEUMATIC/ELECTRIC, P658 SERIES

Pneumatic-electric switches (P658A, B) used to convert a pneumatic signal from a controller to an electrical switching action (spdt) to provide start and stop control of equipment such as fans and pumps.

- Setpoint range: 2-24 psi, adjustable differential: 2 psi, fixed
- Switch: SPDT

Honeywell

Part No.	Mounting Code	Factory Set Defaults	Comments	Switch	Setpoint Range (psig)	Differential (psig)
P658A1013	Surface	10 psi	Includes Case	SPDT	2 - 24 psi, adjustable	2 psi, fixed
P658B1012	Panel	10 psi	No Case	SPDT	2 - 24 psi, adjustable	2 psi, fixed



SP470A1000

DIVERTING

Pneumatic diverting switch used to manually divert, block, or bleed air in pneumatic air lines to revise control sequence with a change in conditions. Commonly applied on day/night, summer-winter, on/off/auto, or start/stop functions.

Honeywell

Part No.	Mount	Nb. of Positions	Comments
SP470A1000	Panel	2	Includes Knob, Scale Plate
SP470A1018	Panel	3	Includes Knob, Scale Plate



SP970A1005

MANUAL/MINIMUM POSITION

Used to manually position a remote damper actuator or to reset the setpoint of a pneumatic controller. They can also provide minimum damper position by setting a minimum pressure limit in the branchline to the damper actuator.

- Includes knob, scaleplate, and locknuts

Honeywell

Part No.	Span (psi)	Description
SP970A1005	10	3 Port Manual/Minimum w/ Bleed
SP970C1043	5	4 Port Manual/Isolated Pilot Chamber

RELAY



RP470A1003

SELECTOR

Three-port relays used in HVAC systems to perform a variety of relay functions; transmit the higher of two input signals, lock out one pressure signal when a second signal is higher, or transmit the lower of two pressure signals.

- Operating range: 0-18 psi

Honeywell

Part No.	Description
RP470A1003	High/Low/Lockout Selector



RP471A1002

SNAP ACTING

The four port, snap acting relay converts a proportional air pressure change a controller to a positive (two-position) pressure change. It can also divert a supply line to one of two branches.

- Setpoint range: 3-15 psi
- Differential: 1 psi, fixed

Honeywell

Part No.	Setpoint Range	Differential
RP471A1002	3 - 15 psi	1 psi, fixed



RP7517A1017

PROPORTIONAL E/P TRANSDUCER

Electronic-pneumatic transducers are used in electronic pneumatic control systems to convert a proportional electric output signal from a controller into a direct-acting, proportional pneumatic signal.

- Nominal range: 3-15 psi at 2-10 Vdc
- Only available in Long Island NY, West Chester County NY, New York City and Phoenix, AZ. For New York call 914-592-5555. For Phoenix call 877-672-6875.

Honeywell

Part No.	Includes
RP7517A1017	2-Wire, No Cover without Internal Power Supply
RP7517B1016	3-Wire, Cover with Internal Power Supply

RELAY


RP913A1008

LOAD ANALYZER

A diaphragm logic pressure selector selects the highest and/or lowest branch pressure input from zone thermostats to operate final control elements in pneumatic control applications.

- Seven input manifold containing logic diaphragm, air filter, and restrictions
- Two analyzers can be connected together to increase inputs to twelve.

Honeywell

Part No.	Description
RP913A1008	7 Input Relay


RP970A1008

CAPACITY

Direct acting, modulating relay provides increased capacity of the branchline pressure to the final control device.

Honeywell

Part No.	Description
RP970A1008	Capacity Relay


RP972A1006

REVERSING

A modulating relay suitable for all types of heating and air conditioning control systems to reverse and increase the capacity of the branchline pressure to the final control element. The output varies inversely to the input with an adjustable offset.

Honeywell

Part No.	Comments
RP972A1006	Standard with Mounting Clip Only


RP973A1005

AVERAGING

A three-port relay used in HVAC systems averages the signals from two thermostats to control a single device such as a heating coil valve for a multizone unit. The pneumatic averaging relay provides an output pressure equal to the average of two input pressures.

Honeywell

Part No.	Comments
RP973A1005	Standard with Mounting Clip Only

VALVE


VP522A1039

3-PIPE SEQUENCING

Three-pipe, sequencing, pneumatically operated water valve for controlling both hot and cold water flow in fan-coil and induction units.

Honeywell

		Flow (Cv)	
Part No.	Tube Size (In.)	Port A	Port B
VP522A1039	5/8	2.5	1.6
VP522A1047	7/8	4.0	2.5


VP526A1076

3-WAY MIXING

Three-way pneumatic mixing valve provides proportional control of hot and/or cold water in unit air conditioners and fan coil systems.

- M flare connection
- Lower port normally open
- Spring range: 3 to 10 psi
- Flow: 1.6 Cv

Honeywell

Part No.	Tube Size (In.)	Flow (Cv)
VP526A1076	1/2	1.6

ACCESSORIES


PP901A1004

PRESSURE REDUCING VALVE

Used to control the pressure of the air delivered to pneumatic control systems. Models available for single-pressure systems or two-pressure systems (day/night or summer/winter) requiring two independently regulated pressure settings. Dual pressure units switch from the lower setting to a higher setting when main air is applied to the pilot port. Models also available including a sub-micron filter assembly and pressure gauges.

- Built-in adjustable safety relief valve for limiting downstream pressure
- Inlet pressure: 45-150 psi
- Outlet pressure: 0-25 psi, factory 18 psi

Honeywell

Part No.	Description
PP901A1004	Single Pressure
PP901B1002	Two Pressure
PP902D1007	Two Pressure

THERMOSTAT

1 PIPE, ROOM TEMPERATURE

These pneumatic room thermostats are designed for proportional temperature control of pneumatic valves and damper actuators to maintain room air temperatures in heating, ventilating and air conditioning systems.

- Small size, approximately 2" x 2"
- Factory calibrated. S.S. ball-in-seat provides pneumatic feedback for linear, stable operation.
- Easy-to-use throttling range adjustment and recalibration
- Includes tubing reducers, tubing, wall plate, mounting plate, 2 mounting screws
- R2211512, R2211513, R2212418, R2212419, R2212518, R2212519 are kits that include cover



R2211012

1 PIPE, ROOM TEMPERATURE

Part No.	Dial Range (°F)	Dial Limit Stops
R2211012	55 to 85	No
R2211013	55 to 85	No



R2212118

2 PIPE, ROOM TEMPERATURE

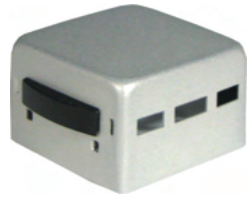
Part No.	Dial Range (°F)	Dial Limit Stops
R2212118	55 to 85	No
R2212119	55 to 85	No



R2214121

2 PIPE, DAY/NIGHT

Part No.	Dial Range (°F)	Dial Limit Stops
R2214121	55 to 85 Day, 50 to 80 Night	No



R21928

COVER

These thermostat covers are designed for use with 2" x 2" pneumatic controls only.

Part No.	Type	Dial Mark-ings	Color	Mate-rial	Exterior Thermometer	Adjustment Type
R21928	Blank	None	Satin Chrome	Metal	No	Concealed
R21933	Full	55 to 85	Satin Chrome	Metal	Yes	Exposed

TRANSMITTER

ROOM TEMPERATURE

The temperature transmitter measures room temperature and transmits a proportional pneumatic signal to a calibrated receiver gauge and/or receiver controller. The device is factory set to transmit a 3 to 15 psig signal over a 50 to 90°F range.

- Permits remote readout and control of room temperature
- Highly sensitive bimetal sensing element
- Linear response to room temperature changes
- Field adjustable zero adjustment
- Temperature range: 50 to 90°F, non adjustable

Part No.	Action	Temperature (°F)
R2220053	DA, Proportional	50 to 90



R2252110

TEMPERATURE

Designed to measure air or fluid temperatures in pneumatic control systems and transmit a fixed span, 3 to 15 psig signal to controlling and indicating devices such as receiver controllers, receiver gauges, sensitive pressure switches, or snap-acting R503-1 diverting relays. These transmitters are available with several types of sensing elements. These transmitters are one-pipe devices requiring an externally restricted source of constant pressure control air. Their design features pneumatic feedback to assure accuracy and stability over their temperature span.

Part No.	Mounting Code	Element	Temperature (°F)
R2252110	Duct or Immersion	Rigid, 1/4" x 7 1/16	-40 to 160
R2252151[1]	Duct or Outdoor Air	Bulb, 1/4" x 4", 3' Cap.	-25 to 125
R2252250	Duct or Immersion	Rigid, 1/4" x 9 3/8"	0 to 100
R2252502	Duct	Rigid Coiled, 10"	40 to 140
R2252610	Duct or Immersion	Rigid, 1/4" x 7 1/16	40 to 240

1 3' capillary length

RELAY


R2372352

PRESSURE SELECTOR

These pressure selector relays are designed for use in pneumatic control systems where the application requires the comparison, selection, and transmission of the higher or lower of two proportional signals. R2372351 can also be used as a booster relay.

- Proportional output

Part No.	Action
R2372352	Selects Highest of 2 Inputs

PNEUMODULAR® CONTROL


R2360501

REVERSING RELAY

A proportioning device designed for use in pneumatic control systems where the application requires the reversing of a proportional signal from a controlling device. The branch line pressure decreases in direct proportion to an increase in input signal pressure and also amplifies the volume of air available for the final control device, thereby minimizing system lag. The unit is factory calibrated to decrease the branch line pressure from 16 psig to 0 psig as the signal pressure increases from 0 psig to 16 psig.

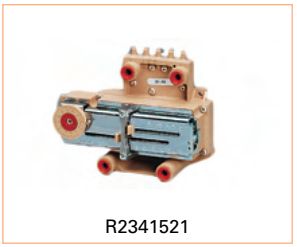
Part No.	Action
R2360501	Reverses Input Signal, Proportional


R2368501

ELECTRIC PNEUMATIC RELAY

The electric pneumatic relays are three-way two-position, electrically activated air valves for use in pneumatic control systems where the application requires a variety of switching, diverting, or interlocking functions, actuated by an electrical circuit.

Part No.	Coil Voltage
R2368501	24 Vac
R2368502	110


R2341521

RECEIVER CONTROLLER

The receiver controllers are used with remote pneumatic transmitters to provide proportional control in pneumatic control systems. They are designed primarily for use with pneumatic transmitters; however, they maybe used with any pneumatic device having an output of 3 to 15 psig, such as thermostats or humidistats. Both direct and reverse acting models are available and each device is of the dual input type, with remote setpoint capability. These devices may be used as single input devices by using only the desired input.

- Nozzle and flapper relay-type receiver-controller; linear, stable and responsive. Three inputs for primary, reset and remote control point adjustment (may be used with one or two inputs).
- Slide-type throttling range and authority adjustments

Part No.	Action
R2341521	DA
R2341522	RA
R2341501	DA
R2341502	RA


R2353502

DIVERTING RELAY, R2353 SERIES

Snap-acting devices with adjustable setpoints designed for a variety of switching and interlocking functions in pneumatic control systems where the application requires one or more of the following functions: feeding and exhausting branch lines, diverting a supply line to either one of two branch lines, or diverting one of two supply lines to one branch line. The primary function of these devices is to convert a proportional pneumatic signal, at a predetermined setting, into a positive pneumatic switching action.
R2353503 is a nonadjustable, snap-acting, signal-comparing diverting relay designed for use in pneumatic control systems where the application requires a pneumatic switching function based on the comparison of two proportional pneumatic input signals.

- Positive two-position snap-action, SPDT pneumatic switching

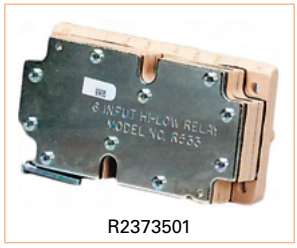
Part No.	Setpoint Range	Differential	Application
R2353502	4.5 to 20	2 to 4	Controller Pilot


R2372502

PRESSURE RELAY

The volume booster relay is a proportioning device designed for use in pneumatic control systems where the application requires amplifying the volume of control air to final control devices. System transmission lag is minimized by using this relay in conjunction with a proportional controller operating several diaphgragm valves or damper actuators. This device may also be used as a low pressure selector when the application requires the comparison, selection and transmission of the lower of two proportional input signals. The high pressure selector relay is a device designed for use in pneumatic control systems where the application requires the comparison, selection, and transmission of the higher of two proportional input signals.

Part No.	Application
R2372502	High Pressure Selector


R2373501

HI/LOW SELECTOR RELAY

A device designed for use in pneumatic control systems where the application requires the comparison, selection, and transmission of the highest and/or the lowest of up to six pneumatic input signals. All input ports are dead-ended and no signal air passes through the relay to the output ports.

Part No.	Description
R2373501	6 Input Selector Relay

ACCESSORIES


R2420001

PRESSURE GAUGE

Pressure gauges for continuous indication of air pressure in pneumatic control systems.

Part No.	Dial Size (In.)	Pressure Range (psig)	Mounting Code	Air Connection (In.)
R2420001	1 1/2	0 to 30	Stem	1/8" MPT, Back


R2422001

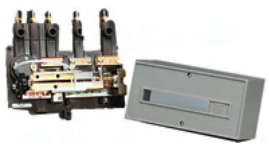
RECEIVER GAUGE

Receiver gauges for continuous indication of temperature, differential static pressure, differential pressure, pressure, enthalpy, or humidity in conjunction with a transmitter-receiver system.

- Adjustable pointer: dial face overlay required (supplied in kit)

Part No.	Dial Size (In.)	Mounting Code	Air Connection (In.)
R2422001	2 1/2	Flush, U-Clamp	3/16" Barb
R2422002	3 1/2	Flush, U-Clamp	3/16" Barb
R2422003	2	Stem	1/8" MPT, Center Back

CONTROLLER



RKSR4000

RECEIVER CONTROLLER

For use in conjunction with remote proportional transmitters for proportional control of pneumatic actuated dampers, valves, etc., in air conditioning systems. The transmitter-receiver-controller system may be used to control temperature, humidity, or pressure.

- Nozzle and flapper relay type receiver controllers
- Direct acting. Field changeable to reverse acting
- Two pipe
- Proportional band: 2 1/2% to 40% of primary span
- Note: RKS4002 input 2 has a reverse acting reset only. For direct acting the output pressure increases as input 2 increases. For reverse acting the output pressure increases as input 2 decreases

Part No.	Description	Authority
RKSR4000	Replacement, Single or Dual Input	10% to 200% of Primary Span

ACTUATOR



MK6821

PROPORTIONAL VALVE TO 6"

Proportional pneumatic actuator with 50 sq. in. effective diaphragm area used to control 1 1/2" to 4" VB-9X13 Series and 1 1/2" to 6" VB-9323 Series valves.

- Requires AV430 Linkage for VB7000 Series valves
- Requires AV495 Linkage for VB9000 Series valves
- Spring range: 8 to 13 psig
- Nominal stroke: 1"

Part No.	Nominal Stroke (In.)	Spring Range
MK6821	1	8 to 13 psig



MK2690

PROPORTIONAL VALVE TO 1 1/4"

For proportional pneumatic control of 1/2" to 1 1/4" VB-111 and VB-7000, VB9000 Series valves. Requires AV400 linkage for all applications.

Part No.	Nominal Stroke (In.)
MK2690	1/2" Nominal

RELAY



AK42309500

POSITIVE POSITIONING

Positive positioner pneumatic relay is used to accurately position an actuator stroke with respect to signal pressure from the controller. It can also be used to change the effective spring range of an actuator and increase the capacity of a controller.

- All necessary linkage provided to assemble AK-42309-500 to MK-2690-0-0-1, 3000, 4600-0-0-2, 4700, 4800, 6800, 6900, 7000, 8800 and 8900 actuators

Part No.	Action
AK42309500	DA

ACTUATOR ACCESSORIES



AV400

VALVE LINKAGE

AV400 includes parts for VB-7xxx valves and discontinued 1/2 to 1 1/4" VB-9xxx valves. AV7400 is for VB-7xxx valves only

Part No.	Use with	Valve Size (In.)
AV400	MK2690	1/2 to 1 1/4
AV7400	MK2690	1/2 to 1 1/4
AV401	MK46	1/2 to 1 1/4



AV430

VALVE LINKAGE KIT

For assembling MS-80000 and MSR-80000 Series hydraulic actuators to 1 1/2 to 2" VB-92XX and VB-9313, 1 1/2" to 3" VB-9323 valve bodies. For assembling MK-6800 Series 50 sq. in. pneumatic actuators to 1 1/2" to 2" VB-9XXX and 1 1/2" to 6" VB-9323 valve bodies.

Part No.	Description
AV430	MK6800 Series with VB7000 Series Valve



AV495

VALVE LINKAGE KIT

For assembling MS-80000 and MSR-80000 Series hydraulic actuators to 2 1/2 to 4" VB-92XX and VB-931X valve bodies. For assembling MK-68X1 pneumatic actuators to 2 1/2" to 4" VB-92XX and VB-931X valve bodies.

Part No.	Description
AV495	MK6800 Series with VB9000 Series Valve



AV601

LINKAGE EXTENSION

The AV-601 valve extension kit is used to increase the allowable ambient temperature ratings of MA, MF, MP-5X1X-XXX, MPR-5X1X and MP- 541X Series actuators on applications with hot water or steam. The MF-5X1X, MP-541X, and MPR-5X1X Series of actuators require the A-601 extension.

Part No.	Description
AV601	MA Extension



THERMOSTAT

1 PIPE, ROOM TEMPERATURE

Designed for proportional control of pneumatic valve and damper actuators used in HVAC systems. A highly sensitive bimetal element with feedback is used for accuracy and stability. The throttling range is factory set at 3°F and is field adjustable.

- Setpoint range: 55 to 85°F
- Throttling range: 3 to 12°F
- HF00010—restrictor tee (14.4 scim) required for CTC16 series Requires cover and/or scaleplate for complete installation



CTC1611

1 PIPE, ROOM TEMPERATURE

Part No.	Type	Action
CTC1611	1 Pipe	DA
CTC1612	1 Pipe	RA



CTC1621

2 PIPE, ROOM TEMPERATURE

Part No.	Type	Action
CTC1621	2 Pipe	DA
CTC1622	2 Pipe	RA



HPO1501

COVER

Covers for CTC16 Series thermostats

Part No.	Type	Color	Construction
HPO1501	Blank	Almond	ABS
HPO1511	Window	Almond	ABS

CONTROLLER



CSC2003

RESET VOLUME, VAV

- Designed for use on VAV terminal units in HVAC systems
- Submaster air velocity controllers whose velocity setpoint is reset between adjustable minimum and maximum limits by a master controller, typically a room thermostat
- For DA cooling or RA heating applications, no dampers
- Set point range: Minimum—0 to 1" wg; Maximum—min. + 1" wg

Part No.	Description
CSC2003	Reset Volume Control



CSC301110

RESET VOLUME, UNIVERSAL

Designed for use on variable air volume terminal units in HVAC systems. It is a submaster air velocity controller whose velocity setpoint is reset between an adjustable minimum and maximum limit by a master controller, typically a room thermostat. Used for either direct or reverse acting reset for normally open or normally closed VAV terminal units. It has a factory set reset start point and reset span which can be field adjusted. The reset span is always constant no matter what minimum and maximum limits have been set.

- For cooling or heating, DA or RA applications

Part No.	Description
CSC301110	0 to 1" Range; 8 Psig Start
CSC302110	0 to 1" Range; 3 Psig Start
CSC302510	0 to 2" Range; 8 Psig Start (High Flow, for Trane® Units)

RELAY



CCE1001

PNEUMATIC-ELECTRIC

- Designed for use in control circuits of HVAC systems
- Ideal for applications such as starting fan coil unit fans, exhaust fans, and direct control of electric duct heaters
- With case and cover

Part No.	Switch
CCE1001	SPDT


RCC1102

AVERAGING

Designed for applications that do not require large amounts of output air volume. Suitable for room or zone applications such as VAV terminals. Use where desired output signal to the controlled device is to be the average of two source signals.

- With bracket

Part No.	Description
RCC1102	Averaging Relay


RCC1101

REVERSING

Designed for reversing a proportional signal from a controlling device. Factory adjusted to decrease branch line pressure as the input pressure increases.

- With bracket

Part No.	Type
RCC1101	Pilot, 9 psi Calibration
RCC1501	Main, 8 psi Calibration


RCC1109

DIVERTING

Adjustable diverting relays are SPDT devices that divert one signal to either of two branch circuits or select one of two inputs and transmit it to another control device. They also can be used to feed or exhaust a circuit.

Part No.	Description
RCC1109	Diverting Relay

DIFFERENTIAL PRESSURE FLOW SENSOR


SSS1003

Designed to sense differential pressure in the inlet section of variable air volume terminal units and fan terminal units. They can also be used to sense differential pressure at other locations in the main or branch duct systems. Normally used in conjunction with the CSC-1000, 2000, and 3000 series of VAV terminal controllers for individual zone control in HVAC systems.

Part No.	Sensing length (In.)
SSS1003	5 13/32
SSS1005	9 29/32

ACTUATOR


MCP80312101

HYDRAULIC, 1 11/16" STROKE

Designed to control small dampers such as air terminal units. Furnished with a right-angle mounting bracket for mounting to the side of a VAV terminal. The bronze bushing actuator may be rotated in the bracket so the air connection can be placed where desired. The end of the shaft has a slot and clevis pin to allow direct connection to the damper linkage of a VAV terminal. The metal body allows them to be used in ceiling plenums where concern for local safety codes is a factor.

- Effective area: 8 sq. in.

Part No.	Spring Range	Description
MCP80312101	3 to 12	Bronze Bushing with Clevis and Cotter Pins
MCP80313101	5 to 10	Bronze Bushing with Clevis and Cotter Pins
MCP80313102	5 to 10	Delrin Bushing without Clevis and Cotter Pins
MCP80315101	8 to 13	Bronze Bushing with Clevis and Cotter Pins


MCP10302111

HYDRAULIC, 3" STROKE

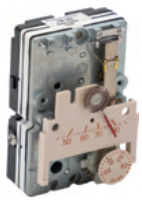
Part No.	Spring Range
MCP10302111	3 to 12
MCP10303111	5 to 10
MCP10305111	8 to 13


MCP10402211

HYDRAULIC, 4" STROKE

Part No.	Spring Range
MCP10402211	3 to 12
MCP10403211	5 to 10
MCP10405211	8 to 13

THERMOSTAT



192202

2 PIPE, HIGH VOLUME

Provides proportional single output, single setpoint, 2-pipe pneumatic room temperature control.

- Requires cover to complete installation

SIEMENS

Part No.	Action
192202	DA
192203	RA



192840

2 PIPE, CONVERSION KIT

Pneumatic room thermostat kit converts most existing pneumatic room thermostats to a Powerstar 192, 2-pipe, single setpoint unit.

- Includes cover and back plate

SIEMENS

Part No.	Action
192840	DA
192841	RA

ACTUATOR DAMPER



3312904

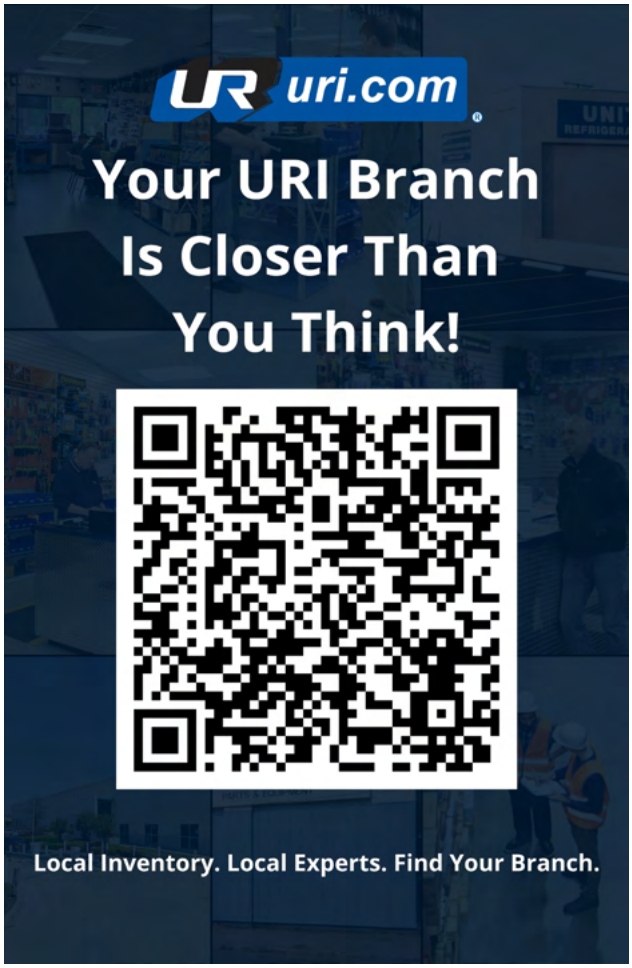
4" STROKE

Designed with a 4-inch stroke, the No. 4 pneumatic actuator is a rugged, metal-fabricated devce that provides gradual or positive actuation of HVAC and fire/smoke dampers.

- UL recognized
- Replacement purposes, integral pivot mounting (no bracket)

SIEMENS

Part No.	Spring Range
3312904	3 to 7 psi
3312906	5 to 10 psi
3312961	8 to 13 psi



TUBING

PLEXCO flame retardant polyethylene tubing is produced for pneumatic control applications where high quality plastic tubing with flame retardant and superior stress-crack resistance properties are required for long term, reliable performance. Its light weight and flexibility provide for ease of handling and installation. Tubing systems are marked with a white ink numbering system over the full length of the tubing. Flame Retardant indicates that the tubing materials have the ability to retard and extinguish the flame once its source is removed. Standard test results on actual extruded tubing meet or exceed the requirements of ASTM D-635.



PT532BLK

5/32" OD

- Nominal I.D.: .096"
- Nominal wall thickness: .030"
- Coil length: 500'
- Burst pressure: > 500 psi 75°F
- P532TT are twin connected tubes

CPChem PERFORMANCE PIPE

Part No.	Color	ID Stripe	Length (Ft.)
PT532BLK	Black	None	500.0
PT532TT[1]	Black	None	500.0

1 Twin connected tubes.



PT14BLK

1/4" OD

- Nominal I.D.: 170"
- Nominal wall thickness: .040"
- Coil length: 250'
- Burst pressure: > 500 psi 75°F
- PT14TT are twin connected tubes

CPChem PERFORMANCE PIPE

Part No.	Color	ID Stripe	Length (Ft.)
PT14BLK	Black	None	250.0
PT14TT[1]	Black	None	250.0
PT14BLU	Black	Blue	250.0
PT14GRN	Black	Green	250.0
PT14ORG	Black	Orange	250.0
PT14RED	Black	Red	250.0
PT14VIO	Black	Violet	250.0
PT14WHT	Black	White	250.0
PT14YEL	Black	Yellow	250.0

1 Twin connected tubes.



PT38BLK

3/8" OD

- Nominal I.D.: .250"
- Nominal wall thickness: .062"
- Coil length: 250'
- Burst pressure: > 500 psi 75°F

CPChem PERFORMANCE PIPE

Part No.	Color	ID Stripe	Length (Ft.)
PT38BLK	Black	None	250.0
PT38BLU	Black	Blue	250.0
PT38GRN	Black	Green	250.0
PT38ORG	Black	Orange	250.0
PT38RED	Black	Red	250.0
PT38VIO	Black	Violet	250.0
PT38WHT	Black	White	250.0
PT38YEL	Black	Yellow	250.0



PT12BLK

1/2" OD

- Nominal I.D.: .375"
- Nominal wall thickness: .062"
- Coil length: 250'
- Burst pressure: > 350 psi 75°F

CPChem PERFORMANCE PIPE

Part No.	Color	ID Stripe	Length (Ft.)
PT12BLK	Black	None	250.0



SNAT3165

NEOPRENE

- Pressure Range -20 to 20" W.C.
- Temperature Range 0°F to 160°F
- Black neoprene
- Use with air pressure switches (i.e.: Robertshaw 2374499)

Supco

Part No.	Size (In.)	Length (Ft.)
SNAT3165	3/16 ID	5.0

TUBING


SSRT185

SILICONE

- Temperature Range -100°F to 500°F
- NSF 51, Soft , Red
- 5 Foot Rolls

Supco

Part No.	Size (In.)	Color	Length (Ft.)	Working Pressure
SSRT185	1/8 ID x 5/16 OD	Red	5.0	25 psi
SSRT145	1/4 ID x 3/8 OD	Red	5.0	5 psi



ACCESSORIES

AIR DRYER

PLEXCO flame retardant polyethylene tubing is produced for pneumatic control applications where high quality plastic tubing with flame retardant and superior stress-crack resistance properties are required for long term, reliable performance. Its light weight and flexibility provide for ease of handling and installation. Tubing systems are marked with a white ink numbering system over the full length of the tubing. Flame Retardant indicates that the tubing materials have the ability to retard and extinguish the flame once its source is removed. Standard test results on actual extruded tubing meet or exceed the requirements of ASTM D-635.


HPR5-10

AIR DRYER

- Eliminate water from your compressed air lines
- Improve the efficiency of your compressed air system
- Reduce operating costs
- Designed to cool your air supply to the specified dew point with minimum pressure drop
- Two stage separator efficiently removes condensed moisture
- Automatic condensate drain
- Cooling temperatures are automatically and accurately controlled over a wide range of load and ambient conditions
- Voltage: 115/1/60

Hankison

		Connection		Dimensions (In.)			
Part No.	Flow (SCFM)	Size (In.)	Type	H	W	D	Ship Wgt (Lbs.)
HPR5-10	5 to 10	3/8	OD	15.00	13.00	13.00	35.67
HPRJ15	15	3/8	OD	14.00	11.00	16.00	41.80
HPR25	25	3/4	MPT	22.00	15.00	15.00	95.00
HPR35	35	3/4	MPT	22.00	15.00	15.00	105.00


DP150

AIR COMPRESSOR, TANK DRAIN, ELECTRIC

Electrically operated automatic condensate drain for pneumatic control systems and all other compressed air services. Voltage: 110V/60Hz

DRAINVIEW PRODUCTS

Part No.	FPT (In.)	Max. Operating Pressure (psi)
DP150	1/2	150.0
DP3800	3/8	300.0

VOLTAGE MONITOR



ICM450C

3-PHASE, DISPLAY

- Input: Voltage: 190-630 Vac; Voltage unbalance: Adjustable 2-25%; Control: 18-240 Vac
- Output: Relay, SPDT—Normally open: 10 amps; Normally closed: 6 amps
- Monitors front and back side of system
- Programmable: 25-fault memory storage
- Independent high/low voltage settings for dual voltage compressor applications
- High temperature LCD to 167°F
- Simultaneous voltage display: No scrolling
- Line voltage programmable
- Reset: Auto or manual
- Monitors: Voltage unbalance, high/low voltage, phase loss, reversal, incorrect sequencing, rapid short cycling
- Does not require control voltage for operation

Part No.	Description
ICM450C	3-Phase Voltage Monitor w/Display



ICM402

3-PHASE, SINGLE SIDE ECONOMY

- Low cost, single side 3-phase protection
- Monitors for phase reversal, phase loss, phase unbalance % as a function of input voltage
- Less than 1 second phase loss response
- Automatic reset from a fault condition
- Input: Line voltage: 190-600 Vac; Control voltage: 115-230 Vac; 50/60 Hz
- Output: Relay, SPST normally open: 30 amps

Part No.	Description
ICM402	3-Phase Monitor



ICM493

1-PHASE WITH SURGE PROTECTION

The ICM493 is an advanced, single-phase line voltage monitor with a bank of surge arresters for added protection against lightning strikes. Includes a built-in 40A contactor. Ideal for Mini-Splits or other single phase equipment.

- Voltage Setpoint: 200-240 VAC
- Anti-Short Cycle Delay: 0.5-10 Minutes
- Number of Surge Arresters Required for Operation: 0-5
- Number of Retries: 1-5, Auto
- Input Line Voltage: 180-264 VAC, 50-60 Hz
- Accuracy: +/- 2%, User Calibration
- Type: Contactor; 2-Pole
- Contactor Ratings: 40A FLA, 240A LRA
- NEMA Rated 3R Outdoor Enclosure

Part No.	Description
ICM493	Single Phase Monitor With Surge Protection



102A

3-PHASE

Auto-ranging, dual-range voltage monitor that protects 190-480 VAC, 50/60Hz motors regardless of size. The product provides a user selectable nominal voltage setpoint and the voltage monitor automatically selects between the 200V and 400V range. Includes advanced single LED diagnostics. Five different light patterns distinguish between faults and normal conditions. This unique microcontroller-based voltage and phase-sensing device constantly monitors the 3-phase voltages to detect harmful power line conditions. When a harmful condition is detected, the MotorSaver's output relay is deactivated after a specified trip delay. The output relay reactivates after power line conditions return to acceptable levels.

- Low voltage trip, single-phase trip, reverse-phase trip
- High voltage trip for 250A (optional for 102A, 201A)
- Fixed 6% voltage unbalance trip
- 10A 240VAC General Purpose
- Adjustable or manual restart delay (102A and 250A only)

Part No.	Description	Switch
102A	3-Phase Voltage Monitor, Panel Mount	SPDT
201A	3-Phase Voltage Monitor, 8-Pin Socket mount	SPDT
250A	3-Phase Voltage Monitor, Panel Mount	DPDT

POWER MONITORING



R310AD1

- Switches upon activation of current in sensed line

Johnson Controls

Part No.	Input Range	Output Voltage
R310AD1*	0.5 to 200 Amps	24
R310AE2*	0.75 to 200 Amps	120/240



RIBXGTA

ENCLOSED SPLIT CORE SENSOR

- Operating Temperature: -30 to 140°F
- Max Sense Voltage: 600 Vac
- Adjustable threshold
- Mounting/Installation: removable mounting tab provided. The wire clamp locks against the load wire, securing the unit in place.

Functional Devices, Inc. RIB

Part No.	Input Range	Output	Switch
RIBXGTA	0.75 to 150 A	30 Vac/dc; 0.4 Amps Max (Terminal Strip, Accepts 14-22 AWG Wire)	Solid State Switch SPST



H608

SENSOR

Application:

- Detect belt loss, coupling shear and motor failure; ideal for fan and pump status
- Replace pressure switches-mechanical devices
- Verify lighting circuit loads and run times
- Monitor critical motors
- Monitor industrial process equipment status

Features:

- Output status LEDs for easy setup and local indication
- 100% solid state; no mechanical parts
- Adjustable setpoint
- Output amps rated at 30 Vac/Vdc

VERIS INDUSTRIES

Part No.	Input Range
H608	1.25 to 50 Amps
908H	2.5 to 135 Amps



RP50

SENSOR

Senses air handler motor amperage to initiate humidifier or electronic air cleaner operation

- Requires minimum 4 amps to activate relay

Aprilaire® Trusted Solutions for a Healthy Home™

Part No.	Voltage
RP50	24
RP51	120



H735

SENSOR RELAY

The Hawkeye 735 Series is the ideal solution for the automation installer. It combines a current switch and relay into a single package, reducing the space required for total control of fans and pumps. The integral current switch and relay operate independently of one another. H735 facilitates the functions of start/stop and status with one device instead of two.

Applications

- Starting/stopping and monitoring positive status of fan and pump motors
- Replaces pressure switches and other electromechanical devices

Features

- Reduces number of components installed; fits better in small starter enclosures
- Commands relay and status in a single unit
- Replaces pressure switches and other electromechanical devices
- Detects belt loss and motor failure... ideal for fan and pump status

VERIS INDUSTRIES

Part No.	Input Range
H735	1 to 135 Amps

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


RIBXKF

SENSOR ASSEMBLY

The X Series contains current sensors with or without a 10 or 20 amp relay. An internal 10 amp relay can be used to activate an external contactor, and currents up to 150 amps are sensed externally with a solid or split current sensing ring. Other units control and sense up to 20 amp loads, without the use of an external current ring, greatly reducing installation time. Externally visible LEDs indicate the status of the relay coil and current sensor trigger. Sensor-relay X Series models have been packaged to save the installer the time, trouble and expense of buying separate components (current sensor, relay, LED indicator, socket, mounting rail and housing) and assembling them on the job or at the shop.

- Adjustable threshold for sensor/relay combinations, fixed threshold for solid core sensor RIBXKF

Functional Devices, Inc. RIB

Part No.	Description	Input Range	Switch	Inductive Load (VA)	Override Switch
RIBXKF	Sensor	0.25 to 150 A	SPNO	-	-
RIBX24SBA	Internal Sensor/Relay	0.50 to 20 A	SPST	1110	Yes
RIBXLSRA	External Sensor/Relay	1.25 to 150 A	SPST	480	Yes

TRANSFORMER


Y65G130

MULTI-MOUNT

- Y65 Series transformers have energy limiting overload protection ONLY; all others have integral circuit breakers
- Y65G130 is a low voltage isolation transformer for sensitive digital circuitry

Johnson Controls

Part No.	Power (Va)	Voltage		Mount	Comments
		Primary	Secondary		
Y65G130*	40	24	24	Foot	Energy limiting overload, 8" primary, 30" secondary leads
Y65T420*	40	120/208-240	24	Plate	Conduit hub, energy limiting overload, 8" primary, 8" secondary leads
Y65F420*	40	277/480	24	Plate	Conduit hub, energy limiting overload, 8" primary, 8" secondary leads


AT87A1106

FOOT MOUNT NEMA STANDARD

resideo

Part No.	Power (Va)	Voltage		Mount	Comments
		Primary	Secondary		
AT87A1106	50	120/208/240	24	Foot, Plate	Screw Terminal Secondary
AT87A1189	48	277	24	Foot	12" Lead Secondary
AT87A1155	48	480	24	Foot	12" Lead Secondary


AT88A1005

FOOT MOUNT

- Foot mount
- Connection: 12" lead wires

Honeywell Home

Part No.	Power (Va)	Voltage		Mount
		Primary	Secondary	
AT88A1005	75	120	24	Foot
AT88A1047	75	480	24	Foot


AT72D1683

MULTI-MOUNT NEMA STANDARD

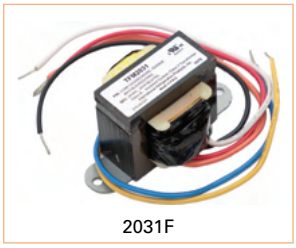
- Foot mounted
- Screw terminal secondary

resideo

Part No.	Power (Va)	Voltage		Mount	Comments
		Primary	Secondary		
AT72D1683	40	120	24	Foot, Plate, Clamp	Screw Terminal Secondary
AT72D1691	40	208/240	24	Foot, Plate, Clamp	Screw Terminal Secondary

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TRANSFORMER

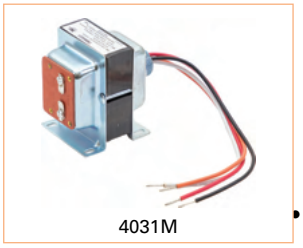

2031F

FOOT MOUNTED

Open construction, wire leads.

- Safety agency approved
- Inherently limited design provides protection from short circuiting

		Voltage	
Part No.	Power (Va)	Primary	Secondary
2031F	20	120/208/240	24
4031F	40	120/208/240	24
40271F	40	277	24
5031F	50	120/208/240	24
5032F	50	120/208/240	24/12/2.5
10048PC	100	208-240	120/24


4031M

MULTI-MOUNT

Closed construction, 4" x 4" plate.

- Optional 3-way mounting for maximum flexibility: foot, plate or conduit
- Safety agency approved
- Welded laminations for quiet operation

		Voltage	
Part No.	Power (Va)	Primary	Secondary
4031M	40	120/208/240	24
5031M	50	120/208/240	24
7541M[1]	75	120/208/240/480	24
TMM15052	150	240/480	120/240

1 In-Line Fuse


AT140A1000

MULTI-MOUNT

- 9" lead wire primary connection
- Screw terminal secondary connection
- Foot, plate (2" x 4" or 4" x 4" outlet box) clamp or panel mounting
- 60 Hz only

		Voltage	
Part No.	Power (Va)	Primary	Secondary
AT140A1000	40	120	24
AT140A1018	40	120/208/240	24
AT150A1007	50	120/208/240	24
AT175A1008	75	120/208/240	24


5041C

CIRCUIT BREAKER

- All models feature a UL recognized manual reset circuit breaker
- Safety agency approved
- Foot mounted

		Voltage		
Part No.	Power (Va)	Primary	Secondary	Mount
5041C	50	120/208/240/480	24	Foot
7541C	75	120/208/240/480	24	Foot
10041C	100	120/208/240/480	24	Foot


AT150F1022

CIRCUIT BREAKER

Intended for use in systems with predictable, uniform loads. Includes button for manually resetting the circuit breaker.

- Foot mounted

		Voltage		
Part No.	Power (Va)	Primary	Secondary	Mount
AT150F1022	50	120/208/240	24	Foot
AT150F1030	50	208/277/480	24	Foot
AT175F1023	75	120/208/240	24	Foot
AT175F1031	75	208/277/480	24	Foot


POP3

LI'L POPPER CONTROL CIRCUIT BREAKER

Saves the technician dozens of blown fuses while he diagnoses control circuit failures. Simply plug the leads in the ATC fuse receptacle on the board, and manually reset the Li'L Popper each time the breaker blows. Has a quick setting thermal cut out. Self adhering backing allows the contractor to leave the unit on the job site overnight if he is out of fuses. For residential or commercial amp applications.

Part No.	Description
POP3	3 Amp, 24-250 Vac
POP5	5 Amp, 24-250 Vac


Y63T220

JOHNSON CONTROL

		Voltage		
Part No.	Power (Va)	Primary	Secondary	Mount
Y63T220*[1]	50	120/208-240	24	Plate
Y63F220*	50	277/480	24	Plate
Y66T120*	75	120/208-240	24	Foot
Y66F120*	75	277/480	24	Foot

1 Circuit breaker

FAN CONTROL CENTER

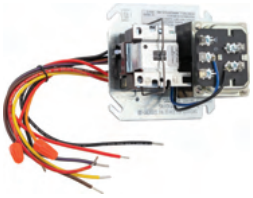

R8239A1052

ENCLOSED RELAY

Provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling or heating-cooling circuits.

- Enclosed relay
- Power contact rating: 6.9 full load amps 240 Vac

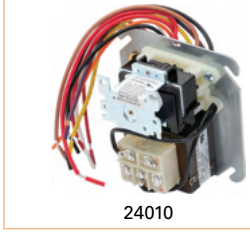
		Voltage		
Part No.	Switch	Primary	Secondary	Power (Va)
R8239A1052	SPDT	120	26.5	40
R8239B1076	DPDT	120/208/240	26.5	50


R8285B1053

OPEN RELAY

Contact rating: 6 full load amps 240 Vac.

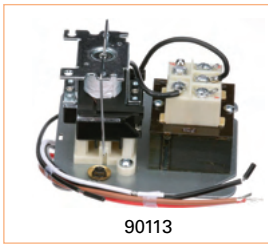
		Voltage		
Part No.	Switch	Primary	Secondary	Power (Va)
R8285B1053	DPDT	120/208/240	26.5	40
R8285D5001	DPST	120	26.5	50


24010

OPEN RELAY

- 40 VA transformer
- 6.9 full load amp relay contacts 240V

		Voltage	
Part No.	Switch	Primary	Secondary
24010*	DPDT	120/240	24


90113

OPEN RELAY

- 40 VA transformer
- 6.9 full load amp relay contacts 240V

		Voltage		
Part No.	Switch	Primary	Secondary	Mars Equivalent
90113	SPDT	120	24	24013

RELAY, SWITCHING


43016

COVER

Part No.	Description
43016*	Metal Dust Cover


90290Q

SPNO

- Quick connect terminals
- 50/60 Hz

Part No.	Contact Rating (Amps)	Coil Voltage
90290Q	8	24 Vac
90291Q	8	120
90292Q	8	208/240

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

RELAY, SWITCHING

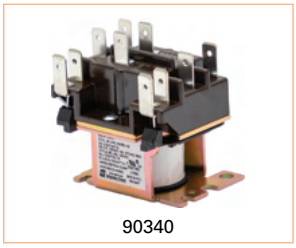

90293Q

SPDT

- Quick connect terminals
- 50/60 Hz

IRP International Refrigeration Products

Part No.	Contact Rating (Amps)	Coil Voltage
90293Q	8	24 Vac
90294Q	8	120
90295Q	8	208/240

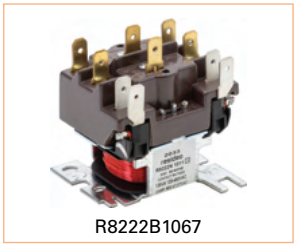

90340

DPDT

- General purpose switching
- 50/60 Hz

IRP International Refrigeration Products

Part No.	Pole Usage	Coil Voltage
90340	Power-Power	24 Vac
90341	Power-Power	120
90342	Power-Power	208/240
90343	Power-Pilot	24 Vac
90345*	Power-Pilot	208/240


R8222B1067

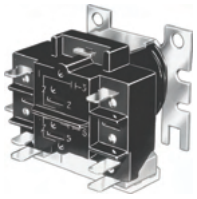
GENERAL PURPOSE

Provides general purpose and heavy duty switching for refrigeration and air conditioning equipment, appliances, vending machines and similar applications.

- Power poles: 6 full load amps 277 Vac
- Pilot poles: 125 VA 480 Vac
- R4228: 12 full load amps 277 Vac

resideo

Part No.	Switch	Pole A	Pole B	Coil Voltage
R8222B1067	SPDT	Power	None	24 Vac
R8222D1014	DPDT	Power	Power	24 Vac
R8222N1011	DPDT	Pilot	Pilot	24 Vac
R8222V1003	DPDT	Pilot	Power	24 Vac
R4222B1082	SPDT	Power	None	120
R4222D1013	DPDT	Power	Power	120
R4222D1021	DPDT	Power	Power	240
R4222N1002	DPDT	Pilot	Pilot	120
R8228B1012	SPDT	Power	Power	24 Vac


R8229A1005

ELECTRIC HEAT

Provides conventional on-off control of heating elements and fan in an electric furnace.

- Maximum temperature rating: 165°F
- Coil voltage: 24 Vac

Honeywell Home

Part No.	1st Pole Resistive Amps (at 277 Vac)	Number 5 kW Elements	Coil Voltage	Includes
R8229A1005	25	2	24 Vac	
R8229A1021	25	2	24 Vac	Mounting Plate, Hardware
R8246A1038	48	4	24 Vac	Mounting Plate, Hardware


90370

HEAVY DUTY

- Switches 18 amp resistive loads
- 50/60 Hz

IRP International Refrigeration Products

Part No.	Contact Rating (Amps)	Switch	Coil Voltage
90370	8	SPDT	24 Vac
90380	8	SPNO-SPNC	24 Vac


43053

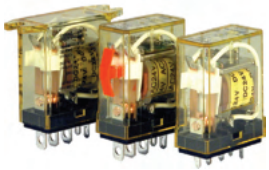
ENCLOSED

- 50/60 Hz
- 3/16" blade terminals

MARS

Part No.	Switch	Contact Rating (Amps)	Coil Voltage
43053*	DPDT	12	24 Vac
43056*	3PDT	11	24 Vac
43057*	3PDT	11	120
43058*	3PDT	11	240
43063*	DPDT	12	24 Vac
43066*	3PDT	11	24 Vac
43067*	3PDT	11	120
43068*	3PDT	11	240

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


RH1BUAC24V

ENCLOSED

RH series uses silver cadmium oxide contacts to help reduce voltage arcing. Available in 1 to 4 poles, with either .187" blade plug-in (stock) or PCB terminals (special order). Options include manual check buttons, LED indicators, and top flange covers for direct surface mounting. All models carry worldwide approvals including UL, CSA, TUV and CE. Using a standard terminal arrangement, the RH series will plug into many competitors' sockets.

- Compact midget size saves space
- High switching capacity
- LAC, ULAC models feature indicator light, RH3BULCAC24V has indicator light and momentary check button

IDEC

Part No.	Switch	Contact Rating (Amps)	Coil Voltage
RH1BUAC24V	SPDT	10	24 Vac
RH1BULAC24V	SPDT	10	24 Vac
RH1BUAC120V	SPDT	10	120
RH1BULAC120V	SPDT	10	120
RH2BUAC24V	DPDT	10	24 Vac
RH2BULAC24V	DPDT	10	24 Vac
RH2BUAC120V	DPDT	10	120
RH2BULAC120V	DPDT	10	120
RH2BULAC240V	DPDT	10	240
RH3BULAC24V	3PDT	7.5	24 Vac
RH3BULCAC24V	3PDT	7.5	24 Vac
RH3BULAC120V	3PDT	7.5	120
RH3BULAC240V	3PDT	7.5	240
RH4BULAC24V	4PDT	7.5	24 Vac
RH4BUAC120V	4PDT	7.5	120
RH4BULAC120V	4PDT	7.5	120


SH1B05

SOCKET

- Worldwide Approvals: UL, CSA, TUV, CE
- UL94-V0 flame resistant material
- Unbreakable nylon construction
- Hold-down springs and clips available for most models
- Receptacles with four contact points per blade

IDEC

Part No.	Description
SH1B05	Socket, DIN/Surface mount, RH1B
SH3B05	Socket, DIN/Surface mount, RH3B, RH2LB
SH4B05	Socket, DIN/Surface mount, RH4B
SH2B05	Relay Socket, 8 Pin, 2 Pole, 10 A, 300V, DIN Rail


17015

TOTALLY ENCLOSED

- Replaces WR/Essex 90-12 relays

MARS

Part No.	Contact Rating (Amps)	Switch	Coil Voltage
17015*	18	SPST	24 Vac
17018*	18	SPDT	24 Vac


R8225A1017

ADD-A-RELAY

Provides control of line voltage fan motors and auxiliary circuits in heating, cooling or heating-cooling systems.

- Contact rating: 7.0 full load amps 240 Vac
- Auxiliary rating: 2.0 full load amps 240 Vac
- Coil voltage: 24 Vac

Honeywell Home

Part No.	Coil Voltage	Switch
R8225A1017	24 Vac	SPDT
R8225D1003	24 Vac	DPST, Normally Open, 1-Main, 1-Auxiliary


R847A1085

HEAVY DUTY

Provides switching for high-current loads such as cooling compressors.

- Contact rating: 10 full load amps 240 Vac
- Integral transformer for control circuit
- Coil voltage: 24V

Honeywell Home

Part No.	Input Voltage	Switch
R847A1085	120	DPST

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

RELAY, SWITCHING



RIBU1C

RELAY IN A BOX, ENCLOSED

- In enclosed plastic box
- All wires exiting from nipple
- Selected models have override switch which allows manual control of switching action
- Pilot duty rated at 277 Vac
- RIBU1SM is set up to send a switch monitoring signal to a controller

Functional Devices, Inc. RIB

Part No.	Coil Voltage	Switch	Resistive Amps	Inductive Load (VA)
RIBU1C	10 - 30 ac/dc, 120 ac	SPDT	10	480
RIBU2C	10 - 30 ac/dc, 120 ac	2-SPDT	10	480
RIBU1S[1]	10 - 30 ac/dc, 120 ac	SPNO	10	480
RIBU1S-NC[1]	10 - 30 ac/dc, 120 ac	SPNC	10	480
RIBH1S[1]	10 - 30 ac/dc, 208/240/277 ac	SPNO	10	480
RIBH1C	10 - 30 ac/dc, 208/240/277 ac	SPDT	10	480
RIB2401D	24 ac/dc, 120 ac	DPDT	10	180
RIB2401B	24 ac/dc, 120 ac	SPDT	20	1110
RIB24P	24 ac/dc	DPDT	20	1110
RIB243P	24 ac/dc	3PNO	20	1110
RIB01P	120 ac	DPDT	20	1110
RIB02P	208/240/277 ac	DPDT	20	1110

1 Override switch



RIBMU1C

RELAY IN A BOX, PANEL STYLE

Panel style relays are exposed track mount suitable for wiring enclosures.

- Selected models have override switch which allows manual control of switching action

Functional Devices, Inc. RIB

Part No.	Coil Voltage	Switch	Resistive Amps	Inductive Load (VA)
RIBMU1C	10 - 30 ac/dc, 120 ac	SPDT	15	480
RIBMU2C	10 - 30 ac/dc, 120 ac	2-SPDT	15	480
RIBM24C	24 ac/dc	SPDT	15	470
RIBM24S[1]	24 ac/dc	SPST	15	470

1 Must cut appropriate jumper to select N.O. or N.C.. Override switch.



RIBH1CW

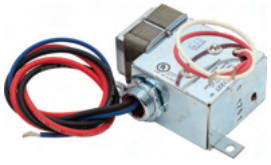
RELAY IN A BOX, T STYLE

T style relays have a class 2 wiring compartment with terminal strips for high/low voltage separation.

- Wires exit from nipple

Functional Devices, Inc. RIB

Part No.	Coil Voltage	Switch	Resistive Amps	Inductive Load (VA)
RIBH1CW	10 - 30 ac/dc, 208/240/277 ac	SPDT	15	480



R841C1227

ELECTRIC HEAT

Use with 2-wire, 24 Vac thermostat to control electric heating equipment such as baseboards, ceiling cables and duct heaters.

Honeywell Home

Part No.	Switch	Voltage Primary	Application
R841C1227	SPST	240	Controls 1 Load, Integral Transformer
R841E1068	DPST	240	Controls 2 Loads, Integral Transformer



RA889A1001

SWITCHING RELAY

Provides intermediate switching of a line voltage device from a low voltage controller.

- Integral transformer provides low voltage power for control circuit

Honeywell Home

Part No.	Voltage	Switch	Application	FLA
RA889A1001	120	SPDT + PowerPile® rated low voltage SPST relay	1-Line Voltage Load, 1-Low/Millivolt Load, 2- or 3-Wire Control	15 120 Vac
RA89A1074	120	SPST	1-Line Voltage Load, 2-Wire Control	5.1 240 Vac
RA832A1066	120	DPST	1-Line Voltage Load, 1-Low/Millivolt Load, 2-Wire Control	3.7 240 Vac
R845A1030	120	DPST	1-Line Voltage Load, 1 Low Voltage Load	-

CONTACTOR, IEC


CA7910120

IEC CONTACTOR, NON-REVERSING, 3 POLE, SERIES CA7

The CA7 power control contactors control motors up to 75HP, in frame sizes ranging from 1-3/4" to a maximum of 2-3/4" wide. Because of its modular design, CA7 is flexible and easy to use. All CA7 contactors use the same accessories, reducing the need to stock additional inventory. They are also mechanically and electrically compatible with Sprecher + Schuh's CEP7 electronic overload relay and KT7 motor circuit controller. This provides easy, clean installation for a variety of motor starter applications.

- CA7 contactors meet IEC, UL and CSA standard requirements
- Non-reversing, 3 poles, opn type only, with AC Coil
- CA7-30 through 97 contactors are designed with two power terminals for all three poles. This simplifies power wiring of interconnected contactors in reversing, reduced voltage and two-speed applications.

Part No.	HP	Voltage	Resistive Amps	Auxiliary Switch	Includes
CA7910120	2 @ 230 V, 5 @ 460 V	230/460/3/60	9	1 NO	120 V Coil
CA7910220W	2 @ 230 V, 5 @ 460 V	230/460/3/60	9	1 NO	208-240 V Coil
CA7910480	2 @ 230 V, 5 @ 460 V	230/460/3/60	9	1 NO	480 V Coil
CA71210220W	3 @ 230 V, 7-1/2 @ 460 V	230/460/3/60	12	1 NO	208-240 V Coil
CA71210120	3 @ 230 V, 7-1/2 @ 460 V	230/460/3/60	12	1 NO	120 V Coil
CA71210480	3 @ 230 V, 7-1/2 @ 460 V	230/460/3/60	12	1 NO	480 V Coil
CA71610120	5 @ 230 V, 10 @ 460 V	230/460/3/60	16	1 NO	120 V Coil
CA71610220W	5 @ 230 V, 10 @ 460 V	230/460/3/60	16	1 NO	208-240 V Coil
CA71610480	5 @ 230 V, 10 @ 460 V	230/460/3/60	16	1 NO	480 V Coil
CA72310220W	7-1/2 @ 230 V, 15 @ 460 V	230/460/3/60	23	1 NO	208-240 V Coil
CA72310480	7-1/2 @ 230 V, 15 @ 460 V	230/460/3/60	23	1 NO	480 V Coil
CA73000220W	10 @ 230 V, 20 @ 460 V	230/460/3/60	30	None	208-240 V Coil
CA73000480	10 @ 230 V, 20 @ 460 V	230/460/3/60	30	None	480 V Coil
CA74300220W	15 @ 230 V, 30 @ 460 V	230/460/3/60	43	None	208-240 V Coil
CA75500220W	20 @ 230 V, 40 @ 460 V	230/460/3/60	55	None	208-240 V Coil


CEP7EEDB

CEP7 SOLID STATE OVERLOAD RELAYS

CEP7-EE is a full-featured, selectable trip class (10, 15, 20 & 30) 3-phase application overload relay with provision for field-mountable modules to handle remote reset, ground fault and other functions previously available only in higher priced electronic overload relays. Manual reset or automatic reset can be selected with dip switches on the CEP7-EE models.

CEP7-1EF has an Adaptive-mount Expansion Port that provides forGround fault/Jam and Remote Reset. It also allows for Intelli-button options.

Part No.	Amps
CEP7EEDB	1.0-5.0
CEP71EFDB	3.2-16.0
CEP71EFCB	1.0-5.0
CEP71EFEB	5.4-27.0


CA7PA11

CS7 CONTROL RELAYS

Compact and designed for heavy-duty industrial control applications where reliability and versatility are essential. Interchangeable coils on the CS7 and CA7 lines mean less inventory. The CS7 is the standard relay with a general purpose UL rating of 25 amps. Snap-on design.

(CS7)

- Electronic compatible standard contacts down to 17V, 5mA, bifurcated version 5V, 3mA
- Mechanically linked between N.O. and N.C. poles and to the control relay poles (excluding L types).
- Several terminal numbering choices even for models with equal function

(CA7)

- Two way numbering for right or left mounting on the contactor
- Electronic compatible contacts 17V, 10mA
- Mirror contact performance to control relay poles

Part No.	Auxiliary Switch	Description
CA7PA11	1 NO / 1 NC	Side Mount
CS7PV22	2 NO / 2 NC	Front Mount

CONTACTOR, IEC

IEC CONTACTOR ACCESSORIES



CEP7EPB

sprecher+schuh

Part No.	Description
CEP7EPB	Separate Mounting Base for CEP7ED1*B
CEP7EPD	Separate Mounting Base for CEP7EE*D

CONTACTOR, DEFINITE PURPOSE

COMPACT 1 POLE W/SHUNT

- Non-reversing contactor
- Open with metal mounting plate
- B: Binding Head Screw and Quick Connect Terminals (Side by Side)
- D: Screw/Pressure Plate and Quick Connect Terminals (Side by Side)
- E: Box Lugs (Posidrive Setscrew)
- F: Box Lugs (Posidrive Setscrew) and Quick Connect Terminals (Side by Side)
- J: Box Lugs (Posidrive Setscrew) and Quick Connect Terminals (Vertical In-Line)
-



C25CNB125T

COMPACT 1 POLE W/SHUNT

EATON Powering Business Worldwide

Part No.	FLA	Coil Voltage
C25CNB125T	25	24 Vac
C25CNB125A	25	110/120
C25CNB130T	30	24 Vac
C25CNB130A	30	110/120
C25CNB130B	30	208/240
C25CNB140T	40	24 Vac



C25BNB220T

COMPACT 2 POLE

EATON Powering Business Worldwide

Part No.	FLA	Coil Voltage
C25BNB220T	20	24 Vac
C25BNB220A	20	110/120
C25BNB220B	20	208/240
C25BNB225T	25	24 Vac
C25BNB225A	25	110/120
C25BNB230T	30	24 Vac
C25BNB230A	30	110/120
C25BNB230B	30	208/240
C25BNB230H	30	277
C25BNB230C	30	480
C25BNB240T	40	24 Vac
C25BNF240T	40	24 Vac
C25BNB240A	40	110/120
C25BNB240B	40	208/240



C25DND230B

2 POLE

EATON Powering Business Worldwide

Part No.	FLA	Coil Voltage
C25DND230B	30	220
C25DNF240T	40	24 Vac



C25DND325T

3 POLE

- 100% increase in electrical and mechanical life - 200,000 and 500,000 operations
- RoHS compliance
- cULus certification
- Panel space savings due to shallower depth
- Load-side coil quick connection for easy installation

EATON Powering Business Worldwide

Part No.	FLA	Coil Voltage
C25DND325T	25	24 Vac
C25DND325A	25	110/120
C25DND325B	25	208/240
C25DND330T	30	24 Vac
C25DND330A	30	110/120
C25DND330B	30	208/240
C25DNF330T	30	24 Vac
C25DNF330A	30	110/120
C25DNF330B	30	208/240
C25DNF340T	40	24 Vac
C25DNF340A	40	110/120
C25DNF340H	40	277
C25DNF340B	40	208/240
C25DNF340C	40	440/480
C25DNJ350T	50	24 Vac
C25DNJ350A	50	110/120
C25DNJ350B	50	208/240
C25FNF360T	60	24 Vac
C25FNF360A	60	110/120
C25FNF360B	60	208/240
C25FNF375T	75	24 Vac
C25FNF375A	75	110/120
C25FNF375B	75	208/240
C25GNF390T	90	24 Vac
C25GNF390A	90	110/120
C25GNF390B	90	208/240
C25HNE3120A	120	110/120
C25HNE3120B	120	208/240



C25END430A

4 POLE

EATON Powering Business Worldwide

Part No.	FLA	Coil Voltage
C25END430T	30	24 Vac
C25END430A	30	110/120
C25END430B	30	208/240
C25ENF440T	40	24 Vac
C25ENF440A	40	110/120
C25ENF440B	40	208/240



C320KG1

SIDE MOUNTED AUXILIARY CONTACT

- 100% increase in electrical and mechanical life - 200,000 and 500,000 operations
- RoHS compliance
- cULus certification
- Panel space savings due to shallower depth
- Load-side coil quick connection for easy installation

EATON Powering Business Worldwide

Part No.	Circuit	Type	Use with
C320KG1	With Standard Pressure Plate Terminals	1-NO	15-75 Amps Contactor
C320KG3	With Standard Pressure Plate Terminals	1-NO 1-NC	15-75 Amps Contactor
F1C320DPG01	With Pressure Plate and Quick Connect Terminals	1-NC	90 Amps Contactor
F1C320DPG10	With Pressure Plate and Quick Connect Terminals	1-NO	90 Amps Contactor
F1C320DPG11	With Pressure Plate and Quick Connect Terminals	1-NO 1-NC	90 Amps Contactor
C320KGS20	With Standard Pressure Plate Terminals	1-NO	120-360 Amps Contactor
C320KGS21	With Standard Pressure Plate Terminals	1-NC	120-360 Amps Contactor
C320KGS22	With Standard Pressure Plate Terminals	1-NO 1-NC	120-360 Amps Contactor
C320KGS31	N/A	1-NO	120 Amps Contactor
C320KGS32	N/A	1-NO 1-NC	120 Amps Contactor

CONTACTOR, DEFINITE PURPOSE

SIDE MOUNTED SNAP SWITCH



C320SNP11

EATON Powering Business Worldwide

Part No.	Circuit	Amps	Type
C320SNP11	With Quick Connect Terminals	15-75	1-NO 1-NC
C320SNP22	With Quick Connect Terminals	15-75	2-NO 2-NC

REPLACEMENT COIL


927562

EATON Powering Business Worldwide

Part No.	Class	Coil Voltage
927562	90A, 2 and 3 Pole	208/240
9-3079-3	25-40A, 4 Pole	104/120
9-3185-1	15-40A, 2 and 3 Pole (Series D1)	110/120
9-3186-1	50A, 2 and 3 Pole (Series D1)	110/120
931852	15-40A, 2 and 3 Pole (Series D1)	208/240
931856	15-40A, 2 and 3 Pole (Series D1)	24 Vac
9-3256-1	25-40A, 4 Pole	104/120
932562	25-40A, 4 Pole	208/240
932566	25-40A, 4 Pole	24 Vac
932563	25-40A, 4 Pole	440/480

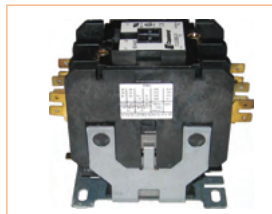
2 POLE


912202500

COPELAND

Part No.	FLA	Coil Voltage
912202500*	25	24 Vac
912203000*	30	24 Vac
912203001*	30	120
912203002*	30	208/240
912204000*	40	24 Vac

3 POLE


912302500

COPELAND

Part No.	FLA	Coil Voltage
912302500*	25	24 Vac
912302501*	25	120
912302502*	25	208/240
912303000*	30	24 Vac
912303001*	30	120
912303002*	30	208/240
912304000*	40	24 Vac
912304001*	40	120
912304002*	40	208/240
912305000*	50	24 Vac
912305001*	50	120
912305002*	50	208/240
912306001*	60	120
912306002*	60	208/240
912307501*	75	120
912307502*	75	208/240
912312001*	120	120
912312002*	120	208/240
912320001*	200	120
912320002*	200	208/240

AUXILIARY SWITCH



912000112

COPELAND

Part No.	Application	Switch
912000112*	15 to 75 Amp	1 NO/1 NC
912000113*	15 to 75 Amp	2 NO
912000120*	120 to 360 Amp	1 NC
912000121*	120 to 360 Amp	1 NO/1 NC

1 POLE WITH SHUNT


DP13024F

Features for F Series

- Furnas style definite purpose
- UL recognized
- Heavy duty silver contacts

IRP International Refrigeration Products

Part No.	FLA	Coil Voltage
DP13024F	30	24 Vac

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	FLA	Coil Voltage
DP130120F	30	120
DP130240F	30	240
DP14024F	40	24 Vac


DP22024F

2 POLE

Features for F Series

- Furnas style definite purpose
- UL recognized
- Heavy duty silver contacts

IRP International Refrigeration Products

Part No.	FLA	Coil Voltage
DP22024F	20	24 Vac
DP220120F	20	120
DP220240F	20	240
DP23024F	30	24 Vac
DP23024LF[1]	30	24 Vac
DP230120F	30	120
DP230240F	30	240
DP230277F	30	277
DP230480F	30	480
DP24024F	40	24 Vac
DP240120F	40	120
DP240240F	40	240

1 With Lugs


DP33024F

3 POLE

Features for F Series

- Furnas style definite purpose
- UL recognized
- Heavy duty silver contacts

IRP International Refrigeration Products

Part No.	FLA	Coil Voltage
DP33024F	30	24 Vac
DP330120F	30	120
DP330240	30	240
DP330240F	30	240
DP330277F	30	277
DP330480F	30	480
DP34024F	40	24 Vac
DP340120F	40	120
DP340240F	40	240
DP340480F	40	480
DP35024F	50	24 Vac
DP350120F	50	120
DP350240F	50	240
DP36024F	60	24 Vac
DP360120F	60	120
DP360240F	60	240
DP37524F	75	24 Vac
DP375120F	75	120

Continued on next page

Part No.	FLA	Coil Voltage
DP375240F	75	240
DP39024F	90	24 Vac
DP390120F	90	120
DP390240F	90	240
DP312024	120	24 Vac
DP3120120	120	120
DP3120240	120	240


DP44024F

4 POLE

Features for F Series

- Furnas style definite purpose
- UL recognized
- Heavy duty silver contacts

IRP International Refrigeration Products

Part No.	FLA	Coil Voltage
DP44024F	40	24 Vac
DP440120F	40	120
DP440240F	40	240


1950243

AUXILIARY CONTACT SWITCH

Use with NEW IRP contactors F Series

IRP International Refrigeration Products

Part No.	Description
1950243	For All 3 and 4 Pole Contactors below 75 Amps
1950244	For All 3 Pole Contactors 75 to 120 Amps

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MOTOR STARTER



14CUB32AA

SOLID STATE ELEMENT

Class 14 industrial magnetic starters are designed for across the line starting of single phase and polyphase motors. Across the line or full voltage starting is used when motor starting torque can be applied safely and current inrush does not produce an objectional voltage drop. All starters are supplied with a NO holding interlock that in conjunction with an appropriate pilot device will provide low voltage protection or release. ESP200™ starters (14*U models only; 14*S models provide ESP100 overloads) combine the rugged NEMA contactors with a state of the art solid state overload that provides phase loss, phase unbalance ground fault protection. It offers the user greater motor protection and extended life in heavy duty applications. The ESP200™ ultimately results in a cost savings to the user.

- True phase loss protection; trips within 3 seconds
- Phase unbalanced prevents motor running inefficiently
- Ground fault trip when selected
- Selectable trip class 5, 10, 20 or 30
- Reset trip can be selected
- Auto/Manual restart
- Easy to select and use, Dip Switch selectable
- Overload is self powered, no need for external power source

Furnas

Part No.	Enclosure	NEMA Rating	Size	Amps	Coil Voltage
14CUB32AA	Open	0	0	0.75 - 3.4A	120/240
14CUB32BA	NEMA 1	0	0	0.75 - 3.4A	120/240
14CUC32AA	Open	0	0	3 - 12A	120/240
14CUC32BA	NEMA 1	0	0	3 - 12A	120/240
14CUC32BJ	NEMA 1	0	0	3 - 12A	24 Vac
14CUD32BA	NEMA 1	0	0	5.5 - 22A	120/240
14DUC32AA	Open	1	1	3 - 12A	120/240
14DUC32BA	NEMA 1	1	1	3 - 12A	120/240
14DUD32AA	Open	1	1	5.5 - 22A	120/240
14DUD32BA	NEMA 1	1	1	5.5 - 22A	110/240
14DUE32AC	Open	1	1	10-40A	220/440
14DUE32BA	NEMA 1	1	1	10-40A	120/240
14EUE32AA	Open	-	1 3/4	10-40A	110/240
14EUE32BA	NEMA 1	1	1 3/4	13 - 27A	110/240
14FUF32BA	NEMA 1	2	2	13 - 52A	110/240
14GUG32AA	Open	-	2 1/2	25 - 100A	120/240
14GUG32BA	NEMA 1	1	2 1/2	25 - 100A	120/240
14HUG32AA	Open	3	3	25 - 100A	120/240
14HUG32BA	NEMA 1	3	3	25 - 100A	120/240



75DF14

CONTACT KIT

Kit includes 1 pole stationary and movable contacts and contact springs. Use with Models P or S (4th position in part). Fits classes 14, 17, 18, 22, 25, 26, 30, 32, 40, 43, 83, 84, 87, 88

Furnas

Part No.	NEMA Rating
75DF14	1
75FP14	2
75HF14	3



75D73070J

AC COIL

Use with Models P or S (4th position in part). Fits classes 14, 17, 18, 22, 25, 26, 30, 32, 40, 43

Furnas

Part No.	NEMA Rating	Voltage
75D73070J	00 - 2.5	24
75D73070A	00 - 2.5	110-120/220-240
75D73070C	00 - 2.5	220-240/440-480



49AB10

ACCESSORIES

Push buttons and selector switches for NEMA 1 enclosures only; Class 14, 40 and LEN. Auxiliary switches universally fit classes 14, 17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88

Furnas

Part No.	NEMA Rating
49AB10	00 to 4
49AB01	00 to 4

MOTOR ASSISTS/RELAYS



ICG1

CURRENT RELAY

- One size for all compressors from 1/12-1/2 horsepower
- These two solid state relays will replace all current type relays
- Can be used with or without a start capacitor

Part No.	Voltage
ICG1	120



P0115

PUSH-ON RELAY

- One size for all compressors from 1/12-1/2 horsepower
- Replaces all push-on current type relays
- For use on compressors with pin type terminals
- Can be used on all capacitor and noncapacitor start motors

Part No.	Voltage
P0115	115/1
P0230	208-240/1



R041

RELAY OVERLOAD

- Relay & overload in one combination unit
- Prewired for fast, simple installation
- Superior locked rotor protection eliminates start winding overheating

Part No.	HP	Voltage
R041	1/4, 1/3	115/1
R081	1/12 to 1/5	115/1
R042	1/4, 1/3	208-240/1
R082	1/12 to 1/5	208-240/1



UPRO81

RELAY OVERLOAD/PUSH-ON, ULTIMATE SERIES

- Push-on relay overload
- Quick connect push-on terminals for run and/or start capacitor

Part No.	HP	Voltage
UPRO81	1/12 to 1/5	115/1
UPRO41	1/4 to 1/3	115/1



PR041

RELAY OVERLOAD/PUSH-ON

Same as RO Series but pushes onto compressor pin terminals.

Part No.	HP	Voltage
PR041	1/4, 1/3	115/1



HS206

RELAY, CAP, OVERLOAD

Designed to be the most reliable and efficient starting capacitor in its class

- Protection timing circuit
- Instantaneous starting
- Voltage monitoring
- Compressor leads with flag terminals
- Solid state design
- UL recognized

Part No.	HP	Voltage
HS206*	1/4-1/3	115/1
HS207*	1/12 to 1/5	115/1
HS210*	1/2	115/1



RCO810

RELAY, CAP, OVERLOAD

This all-in-one unit replaces all 3 electrical components—relay, overload and start capacitor, on all capillary systems.

- For units without run capacitor

Part No.	HP	Voltage
RCO810	1/12 to 1/5	115/1
RCO410	1/4, 1/3	115/1
RCO210*	1/2	115/1
RCO220	1/2	208-240/1

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MOTOR ASSISTS/RELAYS


URCO810RC

4 N' 1 ULTIMATE SERIES RELAY, CAPACITOR, OVERLOAD AND RUN CAPACITOR

- Push-on compressor terminals, and 1/4" capacitor terminals
- Designed for modern high efficiency compressors
- Helps older compressors to start and run cooler
- Easy mount clip for quick installation
- Prevents low voltage starting problems
- Adds a closely matched system run capacitor

Part No.	HP	Run Cap. (µf x Volt)	Voltage
URCO810RC	1/12 to 1/5	12.5	115/1
URCO410RC	1/4 to 1/3	15	115/1
URCO210RC	1/3 to 1/2	20	115/1


RSC10

RELAY, CAPACITOR

- A combined solid state starting relay and capacitor
- Replaces current type relays
- Provides added boost for hard start and unbalanced systems

Part No.	HP	Voltage
RSC10	1/12 to 1/2	115/1


SPP

START RELAY

Voltage: 115/230 Vac.

Part No.	Increased Torque (Oz In)
SPP	210


SPP5

RELAY, CAPACITOR

- For low voltage and hard starting compressors
- Room air conditioning units
- Residential and commercial PSC air conditioning units and heat pumps
- For all PSC air conditioning units from 4,000 through 120,000 BTU's (1/2-10 horsepower)
- Can be used on 120-288 Vac units

Part No.	Increased Torque (Oz In)
SPP5	270
SPP6	390


HS195

RELAY, CAPACITOR

Hard Start Kit

Part No.	Use with
HS195*	120-288V, 1/2 to 5 HP
HS196*	120-288V, 1/2 to 10 HP


TO5

RELAY, CAPACITOR

For single phase 208/265V A/C, refrigeration, heat pump compressors. 2 wire preassembled start assist device utilizing a potential relay and start capacitor.

- Restarts instantly™
- UL, CSA recognized
- Senses motor starting

Part No.	Use with
TO5	1 to 3 HP
KS1	3.5 to 5 HP

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SPP4E

ELECTRONIC RELAY, CAP

The SUPCO E-Class Series comprise the most advanced developments in start device technology:

- Electronic potential relay technology
- Backup electronic timing circuit to protect the compressor
- Voltage sensing
- Instant re-start
- Easy 2-wire connection

Part No.	Use with
SPP4E	90-130V, 1/8 to 1 HP
SPP5E	90-277V, 1/3 to 2 HP
SPP6E	90-277V, 1/2 to 3 HP
SPP7E	90-277V, 1 to 4 HP
SPP8E	90-277V, 1 HP and up
SPP10E	90-277V, 3 HP and up


3W1

3-WIRE MECHANICAL POTENTIAL RELAY, CAPACITOR

The 3 Series Hard Starts provide the service professional with an OEM option when the application calls for a hard start.

- Voltage sensing
- Instant re-start
- 35 amp relay contacts
- 208/ 240 volts
- Includes EZ snap bracket for quick installation
- For use on all 208/ 240 V single phase compressors, scroll, reciprocating compressors and single or dual run capacitors

Part No.	HP	Capacitor
3W1	1 to 3	88 - 108 µF, 330V
3W2	3.5 to 4.5	189 - 227 µF, 330V
3W3	4 to 5	270 - 324 µF, 330V


SPR1

ULTRASTART

Part No.	HP	Capacitor
SPR1*	3.5 to 5	270-324µF, 330V
SPR5*	1 to 3	189-227µF, 330V


APR5

POTENTIAL RELAY, ADJUSTABLE

APR5 allows the exact wire by wire replacement of virtually all potential relays on the market. The patented state-of-the-art electronic circuitry also provides additional motor protection. The contacts of the APR5 will open after 1-1 1/2 seconds if the motor does not start for any reason. This important safety feature prevents the start winding from overloading during a locked rotor condition by removing it from the circuit. You can preset the pick-up voltage of the APR5 to the voltage of the defective relay.

Part No.	Pick-Up Voltage (Vac)
APR5	130 - 370


SUPR

UNIVERSAL POTENTIAL RELAY

SUPR is a time function potential relay designed to be a wire-to-wire replacement for virtually any potential relay on the market. It can be used on any single phase motor or air conditioning and refrigeration compressor up to 5 hp.

- Operating voltage: 110-270 vac, single phase
- Start time: 0.5 ±0.1 seconds
- Terminals: screw on; push-on adapters provided

Part No.	Description
SUPR	Universal Potential Relay


19003

POTENTIAL RELAY SCREW-ON TERMINAL

- Conversion kit included for quick connect fitting

Part No.	Mars No.	Continuous Coil Voltage	Min. Pick-Up	Max. Pick-Up	Max. Drop-Out
19003*	64	395	260	275.0	120
19004*	65	332	168	182.0	90
19005*	66	395	215	225.0	120
19007*	68	502	325	345.0	135
19009*	70	253	285	305.0	77
19010*	71	420	212	232.0	121

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MOTOR ASSISTS/RELAYS


19163

POTENTIAL RELAY QUICK CONNECT

- Economy model

Part No.	Mars No.	Continuous Coil Voltage	Min. Pick-Up	Max. Pick-Up	Max. Drop-Out	Description
19163*	63	170	139	153.0	55	M&A II 163 RELAY
19164*	64	395	260	275.0	120	M&A II 164 RELAY
19165*	65	332	168	182.0	90	M&A II 165 RELAY
19167*	67	420	295	315.0	125	M&A II 167 RELAY
19169*	69	336	180	195.0	105	M&A II 169 RELAY
19170*	70	253	285	305.0	77	M&A II 170 RELAY
19171*	71	420	212	232.0	121	M&A II 171 RELAY

OVERLOAD


35001

UNIVERSAL, LIGHT DUTY

Used in refrigeration, room air conditioners, heating, appliances and electric motors.
Typical applications are noted below.

- 3/4" diameter

	Most Commonly Used HP	
Part No.	at 115V	at 230V
35001*	1/20	1/12, 1/8, 1/6
35003*	1/20, 1/12	1/6, 1/5, 1/4
35006*	1/12, 1/8	1/4, 1/3
35010*	1/8, 1/6, 1/5, 1/4	1/3, 1/2
35011*	1/6, 1/5, 1/4	1/3, 1/2
35012*	1/6, 1/5, 1/4	1/3, 1/2
35014*	1/5, 1/4	1/2
35015*	1/5, 1/4, 1/3	1/2
35016*	1/5, 1/4, 1/3	1/2
35018*	1/4, 1/3, 1/2	1
35019*	1/3, 1/2	-


OV34

OVERLOAD

Part No.	Locked Rotor Amps	Normal Usage Type Condenser	HP
OV34	14.0 - 15.5	Fan	1/8
OV36	16.0 - 18.0	Fan, Static	1/6, 1/8
OV38	18.5 - 22.0	Fan, Static	1/5, 1/8
OV40	22.5 - 26.5	Static	1/5
OV42	27.0 - 31.0	Fan	1/4
OV44	31.5 - 35.5	Static	1/4
OV46	36.0 - 40.0	Fan	1/3
OV48	40.5 - 44.5	Static	1/3
OV50	45.0 - 49.0	Fan	1/2


CR4X370

RUN, 370 VOLT

- Physical interrupter design for safety

	Microfarad
Part No.	Value 1
CR4X370	4.0
CR7.5X370	7.5
CR10X370	10.0
CR12.5X370	12.5
CR15X370	15.0
CR17.5X370	17.5
CR20X370	20.0
CR25X370	25.0
CR30X370	30.0
CR35X370	35.0
CR40X370	40.0
CR45X370	45.0
CR50X370	50.0
CR70X370	70.0
CR80X370	80.0

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RUN, 440 VOLT



CR2X440

	Microfarad
Part No.	Value 1
CR2X440	2.0
CR3X440	3.0
CR4X440	4.0
CR5X440	5.0
CR6X440	6.0
CR7.5X440	7.5
CR10X440	10.0
CR12.5X440	12.5
CR15X440	15.0
CR17.5X440	17.5
CR20X440	20.0
CR25X440	25.0
CR30X440	30.0
CR35X440	35.0
CR40X440	40.0
CR45X440	45.0
CR50X440	50.0
CR55X440	55.0
CR60X440	60.0
CR70X440	70.0

RUN, 370 VOLT, ROUND


CR5X370R

	Microfarad
Part No.	Value 1
CR10X370R	10.0
CR5X370R	5.0
CR15X370R	15.0
CR7.5X370R	7.5
CR30X370R	30.0
CR35X370R	35.0
CR45X370R	45.0
CR50X370R	50.0
CR60X370R	60.0

RUN, 440 VOLT, ROUND



CR5X440R

	Microfarad
Part No.	Value 1
CR5X440R	5.0
CR7.5X440R	7.5
CR10X440R	10.0
CR15X440R	15.0
CR20X440R	20.0
CR25X440R	25.0
CR30X440R	30.0
CR35X440R	35.0
CR40X440R	40.0
CR45X440R	45.0
CR50X440R	50.0
CR55X440R	55.0
CR60X440R	60.0
CR80X440R	80.0

TITAN HD™, RUN, 440/370 VOLT



USA-CR5X440

	Microfarad
Part No.	Value 1
USA-CR5X440	5.0
USA-CR7.5X440	7.5
USA-CR10X440	10.0
USA-CR12.5X440	12.5
USA-CR15X440	15.0

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CAPACITOR



USA-CR5X440R

TITAN HD™, RUN, 440/370 VOLT, ROUND

Packard

	Microfarad
Part No.	Value 1
USA-CR5X440R	5.0
USA-CR7.5X440R	7.5
USA-CR10X440R	10.0
USA-CR15X440R	15.0
USA-CR20X440R	20.0
USA-CR25X440R	25.0
USA-CR30X440R	30.0
USA-CR35X440R	35.0
USA-CR40X440R	40.0
USA-CR45X440R	45.0
USA-CR50X440R	50.0
USA-CR55X440R	55.0
USA-CR60X440R	60.0
USA-CR70X440R	70.0
USA-CR80X440R	80.0



USA-CD20/5X440

TITAN HD™, DUAL, 440/370 VOLT

Packard

	Microfarad	
Part No.	Value 1	Value 2
USA-CD20/5X440	20.0	5.0
USA-CD50/5X440	50.0	5.0



USA-CD25/5X440R

TITAN HD™, DUAL, 440/370 VOLT, ROUND

Packard

	Microfarad	
Part No.	Value 1	Value 2
USA-CD25/5X440R	25.0	5.0
USA-CD30/3X440R	30.0	3.0
USA-CD30/5X440R	30.0	5.0
USA-CD30/7.5X440R	30.0	7.5
USA-CD35/3X440R	35.0	3.0
USA-CD35/5X440R	35.0	5.0
USA-CD35/7.5X440R	35.0	7.5
USA-CD40/3X440R	40.0	3.0
USA-CD40/5X440R	40.0	5.0
USA-CD40/7.5X440R	40.0	7.5
USA-CD40/10X440R	40.0	10.0
USA-CD45/5X440R	45.0	5.0
USA-CD45/7.5X440R	45.0	7.5
USA-CD45/10X440R	45.0	10.0
USA-CD50/7.5X440R	50.0	7.5
USA-CD55/5X440R	55.0	5.0
USA-CD55/7.5X440R	55.0	7.5
USA-CD55/10X440R	55.0	10.0
USA-CD60/5X440R	60.0	5.0
USA-CD60/7.5X440R	60.0	7.5
USA-CD60/10X440R	60.0	10.0
USA-CD70/5X440R	70.0	5.0
USA-CD70/7.5X440R	70.0	7.5
USA-CD70/10X440R	70.0	10.0
USA-CD80/5X440R	80.0	5.0
USA-CD80/7.5X440R	80.0	7.5
USA-CD80/10X440R	80.0	10.0



CD15/3X370

DUAL, 370 VOLT

IRP International Refrigeration Products

	Microfarad	
Part No.	Value 1	Value 2
CD15/3X370	15.0	3.0
CD15/4X370	15.0	4.0
CD15/5X370	15.0	5.0
CD15/10X370	15.0	10.0
CD20/4X370	20.0	4.0
CD25/3X370	25.0	3.0

Continued on next page

	Microfarad	
Part No.	Value 1	Value 2
CD25/4X370	25.0	4.0
CD25/5X370	25.0	5.0
CD25/10X370	25.0	10.0
CD30/3X370	30.0	3.0
CD30/5X370	30.0	5.0
CD35/3X370	35.0	3.0
CD35/4X370	35.0	4.0
CD35/5X370	35.0	5.0
CD40/5X370	40.0	5.0
CD45/5X370	45.0	5.0
CD55/5X370	55.0	5.0
CD55/10X370	55.0	10.0
CD60/5X370	60.0	5.0
CD60/10X370	60.0	10.0
CD60/7.5X370	60.0	7.5
CD70/7.5X370		

DUAL, 440 VOLT



CD30/3X440

	Microfarad	
Part No.	Value 1	Value 2
CD30/3X440	30.0	3.0
CD20/5X440	20.0	5.0
CD15/5X440	15.0	5.0
CD20/15X440	20.0	15.0
CD25/5X440	25.0	5.0
CD30/5X440	30.0	5.0
CD35/3X440	35.0	3.0
CD35/5X440	35.0	5.0
CD40/5X440	40.0	5.0
CD45/5X440	45.0	5.0
CD50/5X440	50.0	5.0
CD55/5X440	55.0	5.0
CD60/5X440	60.0	5.0

DUAL, 370 VOLT, ROUND



CD20/5X370R

	Microfarad	
Part No.	Value 1	Value 2
CD20/5X370R	20.0	5.0
CD25/5X370R	25.0	5.0

Continued on next page

	Microfarad	
Part No.	Value 1	Value 2
CD30/3X370R	30.0	3.0
CD35/5X370R	35.0	5.0
CD40/7.5X370R	40.0	7.5
CD60/5X370R	60.0	5.0
CD70/5X370R	70.0	5.0
CD80/7.5X370R	80.0	7.5
CD80/10X370R	80.0	10.0

DUAL, 440 VOLT, ROUND



CD25/5X440R

	Microfarad	
Part No.	Value 1	Value 2
CD25/5X440R	25.0	5.0
CD30/3X440R	30.0	3.0
CD30/4X440R	30.0	4.0
CD30/5X440R	30.0	5.0
CD35/4X440R	35.0	4.0
CD35/5X440R	35.0	5.0
CD35/7.5X440R	35.0	7.5
CD40/3X440R	40.0	3.0
CD40/5X440R	40.0	5.0
CD40/7.5X440R	40.0	7.5
CD45/5X440R	45.0	5.0
CD45/7.5X440R	45.0	7.5
CD50/3X440R	50.0	3.0
CD50/5X440R	50.0	5.0
CD50/7.5X440R	50.0	7.5
CD50/10X440R	50.0	10.0
CD55/5X440R	55.0	5.0
CD55/7.5X440R	55.0	7.5
CD55/10X440R	55.0	10.0
CD60/5X440R	60.0	5.0
CD60/7.5X440R	60.0	7.5
CD70/5X440R	70.0	5.0
CD60/10X440R	60.0	10.0
CD75/10X440R	75.0	10.0
CD80/5X440R	80.0	5.0
CD80/10X440R	80.0	10.0
CD80/7.5X440R	80.0	7.5

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CAPACITOR



CS25X110

START, 110 VOLT

- Round body

Part No.	Microfarad Range
CS25X110	25 - 30
CS36X110	36 - 43
CS43X110	43 - 56
CS56X110	56 - 72
CS72X110	72 - 88
CS88X110	88 - 108
CS108X110	108 - 130
CS124X110	124 - 156
CS130X110	130 - 156
CS145X110	145 - 175
CS161X110	161 - 193
CS189X110	189 - 227
CS189X165	189 - 227
CS200X110	200 - 240
CS216X110	216 - 259
CS233X110	233 - 292
CS270X110	270 - 324
CS300X110	300 - 360
CS324X110	324 - 388
CS340X110	340 - 408
CS378X110	378 - 440
CS400X110	400 - 480
CS430X110	430 - 520
CS460X110	460 - 552
CS540X110	540 - 648
CS590X110	590 - 708
CS708X110	708 - 850
CS1000X110	1000 - 1200



CS124X165

START, 165 VOLT

Part No.	Microfarad Range
CS124X165	124 - 156
CS145X165	145 - 175
CS161X165	161 - 193
CS233X165	233 - 292
CS270X165	270 - 324



CS21X220

START, 220 VOLT

Part No.	Microfarad Range
CS21X220	21 - 25
CS25X220	25 - 30
CS36X220	36 - 43
CS43X220	43 - 56
CS56X220	56 - 72
CS72X220	72 - 88
CS88X220	88 - 108
CS108X220	108 - 130
CS124X220	124 - 156
CS145X220	145 - 175
CS161X220	161 - 193
CS189X220	189 - 227
CS216X220	216 - 259
CS233X220	233 - 292
CS270X220	270 - 324



CS21X330

START, 330 VOLT

Part No.	Microfarad Range
CS21X330	21 - 25
CS25X330	25 - 30
CS30X330	30 - 36
CS36X330	36 - 43
CS43X330	43 - 56
CS53X330	53 - 70
CS56X330	56 - 72
CS72X330	72 - 88
CS88X330	88 - 108
CS108X330	108 - 130
CS130X330	130 - 156
CS145X330	145 - 175
CS161X330	161 - 193
CS189X330	189 - 227
CS216X330	216 - 259
CS270X330	270 - 324


12100

UNIVERSAL

The world's first multiple tapped, fluid-filled, metal can, motor-run capacitor, which eliminates the need to inventory more than 200 individual single or dual value capacitors. Universal HardStart Replacement. One 2-Wire Turbo® Easy-Start 4 Hardstart can replace any one of four compressor hardstart kits on the market. The Turbo®200 is manufactured using AmRad Engineering's patented Ultramet™ capacitor technology, which allows a metallized film capacitor to be tapped with a built-in common or ground connection and eliminates the necessity of separate capacitors or of packaging two or more capacitors in one can.

Part No.	Description
12100*	Turbo®200 Mini Run Capacitor Replacement, 2.5 to 12.5 µf, 370V or 440V
TURBO200*	Turbo®200 Run Capacitor Replacement, 2.5 to 67.5 µf, 370V or 440V
12300*	Turbo®200X Run Capacitor Replacement, 5.0 to 97.5 µf, 370V or 440V
11200*	Turbolytic™ 50 Universal Motor Start Capacitor, 23 to 302 µf, 125V to 330V

THERMOSTAT


SL79002

TUBE MOUNT

The SL series line of exact replacement heavy-duty sealed bimetal disc controls meets the higher electrical requirements of commercial applications. Can handle electrical loads up to 25 amps at 120/240VAC.

- 42" leads
- Metal case
- Rated 10A/120V, 5A/240V
- Sealed construction provides moisture resistance for moisture prone environments
- High-speed contact separation ensures long contact life
- UL® recognized
- CSA approved

	Temperature (°F)		
Part No.	Close	Open	Tube Size (In.)
SL79002*	30	55	5/8


33405

TUBE MOUNT

- L, F, D Primary: 10A 240V
- D Secondary: 3A 240V
- Type Code:
- D = SPDT, L = Open High, F = Open Low
- Includes listed size clip

	Temperature (°F)			
Part No.	Close	Open	Tube Size (In.)	Temperature Code
33405*1	20	70	5/8	D70-5
33415MA*1	20	65	5/8	D65-4.5
33420*1	55	35	3/8	F55-2
33430*1	35	50	1/2	D50-1.5
33435*1	5	20	3/4	L20-1.5
33455*1	60	20	5/8	F60-4
33460*1	5	35	5/8	L35-3
33470*1	30	50	5/8	L50-2
33475*1	20	40	5/8	L40-2
33480*1	50	80	5/8	L80-3
33490*2	30	80	3/8	L80-5
33492*2	30	80	1/2	L80-5

1 Mounting designed for, but not limited to posted size. 2 Mounting designed for, but not limited to posted size. Designed for heat pump usage.


33008

TUBE MOUNT OR SURFACE

- Maximum load: 2.9A 240 Vac

		Temperature (°F)	
Part No.	Temperature Code	Close	Open
33008*	L45-3	15	45
33010*	L55-3	25	55
33011*	L60-3	30	60
33020*	L80-3	50	80


SL5708

HEATCRAFT REPLACEMENTS

Replaces common flush mount defrost controls on Heatcraft evaporators

Part No.	Description
SL5708*	Defrost Termination, SPST, L75-35
SL5709*	Defrost Termination, SPDT, D55-20

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMOSTAT

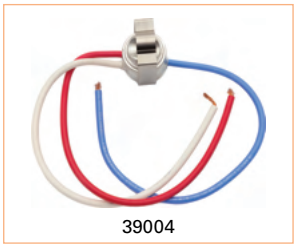

SFPC

FREEZE PROTECTION CONTROL

Freeze Protection Control

- Protects air conditioning evaporator coil from freezing.
- Opens 35°F/Close 50°F
- Replaces: Trol A Temp FPC

Part No.	Description
SFPC*	Freeze Protection Control


39004

CHANGEOVER SWITCH

For summer-winter changeover in hydronic heat/cool fan coil units.

- SPDT switch
- Contact rating: Term 1 and 3, 25A 240V; Term 1 and 2, 5A 240V

	Temperature (°F)	
Part No.	Open	Close
39004*	88	73

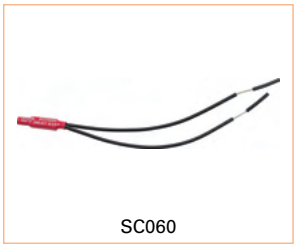

7521

CHANGEOVER SWITCH

Provides automatic changeover of thermostat to permit proper operation of zone valve on combination hot and chilled water systems.

- Switch: SPDT
- Contact rating: 3.75 F.L. Amp 240 Vac

Part No.	Temperature Setting (°F)	Differential	Temperature Code
7521	85	15°F	D85-1.5


SC060

CONSTRUCTION

Low cost single set-point thermostats intended for use as a temporary device to provide heating to allow drywall to dry during construction.

- 2- wire, 24 volt, 2 amp maximum
- Accuracy: ±5°F

Part No.	Temperature Setting (°F)	Application
SC060	60	Heat
SC065	65	Heat
SC070	70	Heat
SC075	75	Cool

DISC FAN AND LIMIT


3F01110

FAN

Snap disc fan controls for regulation of fan or blower.

- Last three numbers indicate cut-in temperatures on fan controls
- Switch: SPST, close rise
- Contact rating: 5 F.L. Amp 240 Vac

Part No.	Cut-In (°F)	Cut-Out (°F)	Differential	Temperature Code
3F01110	110	90	20°F	F110-2
3F01120	120	110	10°F	F120-1
3F01130	130	115	15°F	F130-1.5
3F01140	140	120	20°F	F140-2
3F01150	150	130	20°F	F150-2
3F01160	160	140	20°F	F160-2
3F01180	180	160	20°F	F180-2
3F01200	200	180	20°F	F200-2
3F01350	350	320	30°F	F350-3


AT021

FAN, ADJUSTABLE

This adjustable snap disc thermostat allows you to vary the temperature set- point to match your specific needs.

- Adjustable snap disc controls
- Switch: SPST, close rise
- Contact rating: 10 F.L. Amp 240 Vac

Part No.	Temperature (°F)	Differential	Includes
AT021*	90 to 130	20°F	1/4" Q.C terminals
AT023*	90 to 130	20°F	1/4" Q.C terminals
39205*[1]	90 to 130	20°F	-
AT022*	140 to 180	20°F	1/4" Q.C terminals
39210*[1]	140 to 180	20°F	-

1 Mars


AT012

LIMIT, ADJUSTABLE

This adjustable snap disc thermostat allows you to set the temperature set point to match your specific needs.

- Adjustable snap disc controls
- Switch: SPST, open rise
- Contact rating: 10 F.L. Amp 240 Vac

Part No.	Differential	Includes	Temperature (°F)
AT012*	40°F	1/4" Q.C terminals	135 to 175
3L0510	20°F	Tab to Screw Terminals	135 to 175
39220*[1]	40°F	-	135 to 175

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Differential	Includes	Temperature (°F)
AT013*	40°F	1/4" Q.C terminals	175 to 215
39225*[1]	40°F	-	175 to 215
AT014*	40°F	1/4" Q.C terminals	210 to 250
39230*[1]	40°F	-	210 to 250
AT015	40°F	1/4" Q.C terminals	250 to 290
3L0513	40°F	Tab to Screw Terminals	250 to 290

1 Mars



3L01120

HIGH LIMIT

- Snap disc control for high limit safety
- Switch: SPST, open rise
- Contact rating: 5 F.L. Amp, 25 Resistive Amp 240 Vac

EMERSON

Part No.	Cut-Out (°F)	Cut-In (°F)	Differential	Temperature Code
3L01120	120	110	10°F	L120-1
3L01130	130	115	15°F	L130-1.5
3L01140	140	100	40°F	L140-4
3L01150	150	110	40°F	L150-4
3L01165	165	125	40°F	L165-4
3L01170	170	130	40°F	L170-4
3L01180	180	140	40°F	L180-4
3L01190	190	150	40°F	L190-4
3L01200	200	160	40°F	L200-4
3L01230	230	190	40°F	L230-4
3L01250	250	210	40°F	L250-4
3L01300	300	250	50°F	L300-5
3L01350	350	310	40°F	L350-4



SHL120

HIGH LIMIT

- Switch: SPST, open rise
- Contact rating: 10 F.L. Amp, 25 Resistive Amp 240 Vac
- Adapter flange plate included

Supco

Part No.	Cut-Out (°F)	Cut-In (°F)	Differential
SHL120	120	110	10°F
SHL140	140	100	40°F
SHL150	150	110	40°F
SHL160	160	120	40°F
SHL170	170	130	40°F



3L02160

LIMIT, MANUAL RESET

- Switch : SPST, open rise
- Contact rating : 5 FL Amp, 25 Resistive Amp 240 Vac

EMERSON

Part No.	Cut-Out (°F)
3L02160	160
3L02170	170
3L02180	180
3L02190	190
3L02200	200



SRL135

LIMIT, AUTOMATIC RESET

- Switch: SPST, open rise
- Contact rating: 1.5 F.L. Amp, 10 Resistive Amp 240 Vac
- Terminals: vertical 1/4"

Supco

Part No.	Cut-Out (°F)	Replaces
SRL135	135	Rheem 47-22453-02
SRL220	220	Nordyne 626354
SRL230	230	Nordyne 626353
SRL240	240	Nordyne 626355
SRL250	250	Nordyne 626352
SRL260	260	Nordyne 626350
SRL300	300	Rheem 47-22861-02
SRL350	350	Goodman B13701-54



3L03140

LIMIT, SPDT

- 20°F differential

EMERSON

Part No.	Cut-Out (°F)
3L03140	140
3L03190	190

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DISC FAN AND LIMIT


SLS140

LIMIT, AUTOMATIC RESET

- Switch: SPST, open rise
- Contact rating: 1.5 F.L. Amp, 10 Resistive Amp 240 Vac
- Terminals: 45° angle 1/4"

Part No.	Cut-Out (°F)	Cut-In (°F)	Differential
SLS140	140	100	40°F
SLS150	150	110	40°F
SLS160	160	120	40°F
SLS170	170	130	40°F
SLS180	180	140	40°F
SLS200	190	150	40°F


HL501

OEM REPLACEMENT

Direct replacement gas furnace limits

	Temperature (°F)		
Part No.	**Open**	**Close**	**Replaces**
HL501	170	130	BDP HH12ZA174A, HH12ZA176A, P331-2203
HL502	180	150	Carrier B1370001
HL503	190	150	BDP HH12ZA189, HH12ZB190, HH12ZA193A, P331-2205
HL504	240	200	BDP HH12ZA240, HH12ZA252A, P331-2217
HL507	140	110	York 025-29041-0055
HL508	190	170	York 025-29041-006
HL509	240	210	Carrier B1370903
HL512	170	150	Lennox 47-25350-06
HL513	170	130	Rheem SWT1258
HL515	200	160	York 025-29041-006
HL516	210	170	Carrier HH12ZB210

ELECTRIC HEAT STAGING


Q101

SEQUENCER, DISC

Part No.	Nb. of Timings	Nb. of Switches	Klixon Number	Switch
Q101*	1	1	60000A0M-98	SPNO
Q102*	1	1	60000A0M-97	SPNO
Q103*	1	2	60000EOM-84	DPST, N.O.
Q104*	1	2	60000EOM-86	DPST, N.O.
Q105*	2	3	51172-32	DPST, SPST, N.O.
Q106*	2	4	51172-33	(2) DPST, N.O.


33243

SEQUENCER

- Direct replacement for most fan/heat sequencing functions
- Solid-state reliability
- Ambient rated from -40 to +165°F
- Multi-poise mounting
- Single load rating 240 Vac, 30 resistive
- Delay times are random between range

Part No.	Klixon Number	Switch
33243*	6000AOM	SPST/NO
33246*	6000EOM	DPST/NO
33247*	6000COM-21	SPDT
33255*[1]	6000E4	DPST/NO

1 Control voltage 120Vac


33222

SEQUENCER, 2 SWITCH

- Single load rating 240 Vac, 30A resistive, all contacts including auxiliary
- Supply voltage: 24 Vac

Part No.	Nb. of Timings	Klixon Number	Switch
33222*	2	51172-22	2 - SPST/NO

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


34604

ELEMENT, REPAIR KIT

Each kit contains one close wound, stretch to length, resistance coil with welded terminal bolts; two each male and female ceramic terminal insulators; two each .375 and .450 inch standard ceramic bushings; two each .375 and .450 inch extra long ceramic bushings; necessary nuts, washers, and installation instructions.

Part No.	Watts	Voltage	Length (In.)
34604*	5,000	480	5.50
34606*	5,000	277	4.80
34610*	3,500	480	5.00
34616*	2,500	240	5.90


34702

THERMAL CUTOFFS

Part No.	Temperature Limit (°F)	Length (In.)	Description
34702*	283	4.20	Fuse Link Only
34706*	300	1.00	Fuse Link Only
34708*	300	2.00	Round Ceramic Base
34710*	227	6.00	Oblong Ceramic Base
34712*	300		Oblong Ceramic Base


STC4257

THERMAL CUTOFFS

- Provides reliable back up protection for temperature controlling thermostats and other over temperature conditions
- One time operation
- Three configurations available to accommodate in line or face plate mounting
- Rated for continuous operating currents of up to:
  15 amps 120 VAC (Series 1)
  25 amps 120 VAC (Series 2)
- Used with the Supco DH series duct heaters.

Part No.	Temperature Limit (°F)	Length (In.)	Description
STC4257*	262	4.00	In Line
STC4283*	291	6.00	In Line
STC4333*	333	5.00	In Line
STC5257*	262	5.60	Face Plate Straight
STC5333*	333	1.40	Face Plate Straight
STC6257*	262	6.00	Face Plate Right Angle
STC6300*[1]	300	5.90	Fusible link

Continued on next page

Part No.	Temperature Limit (°F)	Length (In.)	Description
STC6333*[1]	333	5.90	Fusible link

1 15 Amps

CRANKCASE HEATER


32432

INSERTION, 1/2" DIAMETER, ELBOW

- Copeland replacement

Part No.	Voltage
32432*	208-230


32439

BAR, BOLT ON

- Copeland replacement

Part No.	Voltage
32439*	115


32416

BAR

Part No.	Voltage
32416*	208-230

DEFROST HEATER


SH201

BRAIDED HEATER

Flexible braided aluminum heaters are designed for use in heating drain troughs, drain tubes and drain pans.

Part No.	Length (In.)	Lead Length	Voltage	Watts
SH201	18.00	23"	115/1	15
SH202	29.00	23"	115/1	45

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DEFROST HEATER

Part No.	Length (In.)	Lead Length	Voltage	Watts
SH203	44.00	23″	115/1	55
SH204	44.00	23″	115/1	75


SH281

DOOR AND MULLION

For commercial refrigeration applications to prevent moisture and eliminate frost build-up on door and cabinet fronts

Part No.	Watt/Foot	Voltage	Heating Length (In.)	Lead Length
SH281	3	120	36 1/2	6″
GH282	3	120	18	6″


SH250

UNIVERSAL DRAIN HEATER

Used with existing heater or where no heater exists
Designed for series wiring connection only.

Part No.	Lead Length	Voltage	Watts	Diameter (In.)
SH250	56″	115/1	3	0.91


SH500

DRAIN

Durable Metal Braid

- Heater tip 7/16″ diameter
- Silicone construction
- Designed for waterproof low wattage heat

Part No.	Length (In.)	Lead Length	Voltage	Watts
SH500	9.00	18″	115/1	11
SH502	13.00	18″	115/1	15
SH503	13.00	18″	208-240/1	15
SH504	21.00	18″	115/1	25
SH505	21.00	18″	208-240/1	25

CONDENSATE PAN


N070

EVAPORATOR PAN, SELF-REGULATING

- State-of-the-art, solid state, PTC control
- Self-regulating, conserves power, eliminates thermostat
- Removable cord set for ease of cleaning and installation

Part No.	Voltage	Watts	Capacity (Oz.)	Evaporation Rate (Oz/Hr)
N070	115/1	300	50	6.0


30OS

EVAPORATOR PAN

Standard cast aluminum condensate drains complete with long life heating element and mounting legs.

Part No.	Voltage	Watts	Capacity (Oz.)	Evaporation Rate (Oz/Hr)
30OS	120	160	38	8.0
N075	120	320	75	14.0
75220	240	320	75	14.0


CP801

EVAPORATOR PAN, SELF-REGULATING

For condensate applications where no drain is available

- Corrosion resistant stainless steel construction
- High limit safety and float switch operation
- UL, NSF approved

Part No.	Voltage	Watts	Capacity (Oz.)	Evaporation Rate (Oz/Hr)
CP801*	120	400	56	16.0
CP802*	120	800	80	32.0
CP804*	120	1000	144	53.3
CP804-240*	240	1000	144	32.0
CP816*	120	500	224	24.0
CP817*	208	1000	224	42.7
CP818*	208	1000	224	42.7
CP819*	120	1500	224	64.0
CP820*	208	1500	224	64.0
CP804HD*	120	1000	240	32.0
CP807*	120	1000	240	53.3
CP807-240*	240	1000	240	53.3
CP815-240*	240	1440	480	64.0
CP815*	120	1440	480	64.0
CP821*	208	1500	224	64.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


CPH801

REPAIR PARTS

Repair parts for CP800 series condensate evaporators

Part No.	Description	Voltage	Use with
CPH801*	400W Heater	120	CP801
CPH802*	800W Heater	120	CP802
CPH8047*	1000W Heater	120	CP804
CPH804-240	1000W Heater	240	CP804-240
CPH804HD*	1000W Heater	120	CP804HD
CPH807-240*	1000W Heater	240	CP807-240
CPH815*	1500W Heater	120	CP815
CPH815-240*	1500W Heater	240	CP815-240
CPH816	500W Heater	120	CP816
CPH817	1000W Heater	208	CP817
CPH818*	1000W Heater	208	CP818
CPH819*	1500W Heater	120	CP819
CPH820*	1500W Heater	208	CP820
CPH821*	1500W Heater	208	CP821
CPFLOAT*	3" Float	-	CP801, CP802
CPFLOAT4*	4.5" Float	-	CP804, CP807, CP815
CPS800	Microswitch	-	All
CPT800*	Thermostat	-	All

FLEXIBLE CONDUIT


12SEALTITE

TUBING

- Nonmetallic seal tight
- Flexible conduit

Part No.	Description	Roll Length (Ft.)	Length (In.)
12SEALTITE	Flexible Conduit, 1/2"	100	19.90
34SEALTITE	Flexible Conduit, 3/4"	100	22.40


LT7500S

FITTING

- Nonmetallic liquid tight conduit fitting
- Sealtight connection x box fitting

Part No.	Description	Length (In.)
LT7500S	1/2" Straight Connection	1.00
LT7501S	3/4" Straight Connection	1.00
LT7504S	1/2" 90° Connection	1.00
LT7505S	3/4" 90° Connection	1.00

Continued on next page

OUTSIDE DISCONNECT


83325

HEAT PUMP

Multiple disconnect devices are offered for heat pump applications that require individual disconnects for the heating and cooling cycles. Units require four fuses.

Part No.	Description
83325*	Outside disconnect, heat pump, 100 amps, fused


83336

CARTRIDGE FUSE, UL LISTED

Part No.	Description
83336*	Outside disconnect, cartridge fuse, 30 amps, 240 Volt, 3-pole exterior switch, NEMA 3R
7714*	Outside disconnect, cartridge fuse, 60 amps, 240 Volt, 3-pole exterior switch, NEMA 3R


HF361R

HEAVY DUTY, OUTDOOR

Type 3R NEMA case.

Part No.	Description
HF361R	Outside disconnect, heavy duty, 3R enclosure, fusible, 30 amps, 600 Volt, 3-pole
HF362R	Outside disconnect, heavy duty, 3R enclosure, fusible, 60 amps, 600 Volt, 3-pole

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OUTSIDE DISCONNECT


7711

PULLOUT

Offers both fusible and non-fusible single phase air conditioner disconnects. These units provide a disconnecting means which should be located within sight to and readily accessible from air conditioning or refrigerating equipment. UL Listed.

Part No.	Description
7711*	Outside disconnect, pullout, 60 amps, non fused, 1 phase
7712*	Outside disconnect, pullout, 60 amps, fused, 1 phase
7713*	Outside disconnect, pullout, 30 amps, fused, 1 phase


DPU222R

PULLOUT

- ON/OFF control provided by a pullout handle
- Pullout handle can be conveniently stored in the compartment in the OFF position, helping to prevent the handle from being misplaced
- Protective shield cannot be removed until the pullout handle is removed, disconnecting the power

Powering Business Worldwide

Part No.	Description
DPU222R*	Outside disconnect, pullout, 60 amps, non fused, #14-3 AWG Cu/Al
DPF221R*	Outside disconnect, pullout, 30 amps, fused, #14-3 AWG Cu/Al
DPF222R*	Outside disconnect, pullout, 60 amps, fused, #14-3 AWG Cu/Al


83306

NONMETALLIC

These horse power rated units are constructed of Noryl® thermoplastic for extended and rugged durability. Units are corrosion resistant, weatherproof, and maintenance free. UL Listed and CSA Certified.

Part No.	Description
83306*	Outside disconnect, non-metallic, 30 amps, fused, 1 phase
83307*	Outside disconnect, non-metallic, 60 amps, fused, 1 phase

SURGE PROTECTION


ICM531

The ICM530, ICM531, ICM532 are a series of Type 1 and Type 2 three-phase surge protective devices for three-phase Delta and three-phase Wye configurations. When a surge occurs, the ICM three-phase surge protective device will absorb the surge up to the specified limitations of the device. ICM incorporates superior thermally protected metal oxide varistor technology into the three-phase surge suppressors, which allows for safe disabling of the surge elements when a surge exceeds the thermal limits of the device. There is a single status light on the controls which identifies operational status when illuminated. The ICM 3-phase surge protective device can be installed as a Type 1 or Type 2 device for both indoor and outdoor applications.

Part No.	Description
ICM531*	3-Phase Delta 480V Or Wye 277V/480V, Type 1 & Type 2 Surge Protective Device. Max Surge Current 150,000 Amps, Nema 4X Rated Enclosure.
ICM530*	3-Phase Delta 240V & Wye 120V/208V, Type 1 & Type 2 Surge Protective Device. Max Surge Current 150,000 Amps, Nema 4X Rated Enclosure.
ICM532*	3-Phase Delta 600V Or Wye 346V/600V, Type 1 & Type 2 Surge Protective Device. Max Surge Current 150,000 Amps, Nema 4X Rated Enclosure.



AG3000

Protects high-efficiency furnaces, hydronic heating systems, and ductless mini-splits from surges and spikes.

- Unmatched surge protection ratings
- 120/240 VAC single split phase SPD for use on a variety of HVAC equipment
- Green LED protection indicator
- 18 in. 10 gauge leads
- Type 4x Enclosure

Part No.	Description
AG3000	Surge Protective Device, 3-Mode, 120/240 VAC 1Ph, Type 1 or Type 2, Outdoor, Connected Equipment

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


FRNR3-2/10

DUAL ELEMENT, TIME DELAY, 250 VAC

- Class RK5
- 250 Vac maximum, 125 Vdc
- Interrupting rating—200,000A RMS symmetrical
- 10 seconds delay (minimum) at 500% rated current
- Blade connections 70 amps and larger

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
FRNR3-2/10	3 2/10	200,000A RMS symmetrical
FRNR4	4.0	200,000A RMS symmetrical
FRNR5	5.0	200,000A RMS symmetrical
FRNR7	7.0	200,000A RMS symmetrical
FRNR8	8.0	200,000A RMS symmetrical
FRNR10	10	200,000A RMS symmetrical
FRNR12	12.0	200,000A RMS symmetrical
FRNR15	15.0	200,000A RMS symmetrical
FRNR20	20	200,000A RMS symmetrical
FRNR25	25.0	200,000A RMS symmetrical
FRNR30	30	200,000A RMS symmetrical
FRNR35	35.0	200,000A RMS symmetrical
FRNR40	40.0	200,000A RMS symmetrical
FRNR45	45.0	200,000A RMS symmetrical
FRNR50	50	200,000A RMS symmetrical
FRNR60	60	200,000A RMS symmetrical
FRNR70	70	200,000A RMS symmetrical
FRNR80	80	200,000A RMS symmetrical
FRNR90	90	200,000A RMS symmetrical
FRNR100	100	200,000A RMS symmetrical
FRNR110	110	200,000A RMS symmetrical
FRNR125	125	200,000A RMS symmetrical
FRNR150	150	200,000A RMS symmetrical
FRNR175	175	200,000A RMS symmetrical
FRNR200	200	200,000A RMS symmetrical
FRN350	350	200,000A RMS symmetrical
FRNR600	600	200,000A RMS symmetrical
FRNR6	6.0	200,000A RMS symmetrical


FRSR1

DUAL ELEMENT, TIME DELAY, 600 VAC

- Class RK5
- 600 Vac maximum, 300 Vdc
- Interrupting rating—200,000A RMS symmetrical
- 10 seconds delay (minimum) at 500% rated current
- Blade connections 70 amps and larger

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
FRSR1	1	200,000A RMS symmetrical
FRSR2	2.0	200,000A RMS symmetrical
FRSR5	5.0	200,000A RMS symmetrical
FRSR10	10	200,000A RMS symmetrical
FRSR15	15.0	200,000A RMS symmetrical
FRSR20	20	200,000A RMS symmetrical
FRSR25	25.0	200,000A RMS symmetrical
FRSR30	30	200,000A RMS symmetrical
FRSR35	35.0	200,000A RMS symmetrical
FRSR40	40.0	200,000A RMS symmetrical
FRSR45	45.0	200,000A RMS symmetrical
FRSR50	50	200,000A RMS symmetrical
FRSR60	60	200,000A RMS symmetrical
FRSR70	70	200,000A RMS symmetrical
FRSR80	80	200,000A RMS symmetrical
FRSR90	90	200,000A RMS symmetrical
FRSR100	100	200,000A RMS symmetrical
FRSR110	110	200,000A RMS symmetrical
FRSR125	125	200,000A RMS symmetrical
FRSR150	150	200,000A RMS symmetrical
FRSR175	175	200,000A RMS symmetrical
FRSR200	200	200,000A RMS symmetrical
FRSR250	250	200,000A RMS symmetrical
FRSR8	8	200,000A RMS symmetrical


SC-1

MELAMINE, TIME DELAY

- Class G
- 480 Vac maximum, 300 Vdc (25 to 60A)
- Interrupting rating—100,000A RMS symmetrical
- Diameter—.41"

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
SC-1	1	100,000A RMS symmetrical
SC-2	2.0	100,000A RMS symmetrical
SC-4	4.0	100,000A RMS symmetrical
SC-5	5.0	100,000A RMS symmetrical
SC-6	6.0	100,000A RMS symmetrical
SC10	10	100,000A RMS symmetrical
SC15	15.0	100,000A RMS symmetrical
SC20	20	100,000A RMS symmetrical
SC25	25.0	100,000A RMS symmetrical
SC30	30	100,000A RMS symmetrical
SC35	35	100,000A RMS symmetrical
SC40	40.0	100,000A RMS symmetrical
SC45	45.0	100,000A RMS symmetrical
SC50	50	100,000A RMS symmetrical

Continued on next page

FUSE, POWER


LPCC1/2

LOW-PEAK™ TIME DELAY

Ultimate protection Low-Peak Class CC current-limiting, time-delay fuses. Timedelay – 12 seconds (minimum) at 200% of rated current.

- Dimension—13/32" diameter x 1 1/2" length
- 600 Vac maximum
- Interrupting rating—200,000A

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
LPCC1/2	1/2	200,000A
LPCC1	1	200,000A
LPCC112	1 1/2	200,000A
LPCC2	2	200,000A
LPCC212	2 1/2	200,000A
LPCC3	3	200,000A
LPCC312	3 1/2	200,000A
LPCC4	4	200,000A
LPCC5	5	200,000A
LPCC6	6	200,000A
LPCC7	7	200,000A
LPCC712	7 1/2	200,000A
LPCC8	8	200,000A
LPCC10	10	200,000A
LPCC12	12	200,000A
LPCC15	15	200,000A
LPCC20	20	200,000A
LPCC25	25	200,000A
LPCC30	30	200,000A


KTK2

MELAMINE, FAST ACTING

- Supplementary fuse
- Dimension—13/32" diameter x 1 1/2" length
- 600 Vac maximum
- Interrupting rating—100,000A RMS symmetrical

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
KTK2	2.0	100,000A RMS symmetrical
KTK3	3.0	100,000A RMS symmetrical
KTK4	4.0	100,000A RMS symmetrical
KTK5	5.0	100,000A RMS symmetrical
KTK6	6.0	100,000A RMS symmetrical
KTK10	10	100,000A RMS symmetrical
KTK15	15.0	100,000A RMS symmetrical
KTK20	20	100,000A RMS symmetrical


KTKR3

MELAMINE, FAST ACTING, CLASS CC

- Class CC—Rejection type
- Dimension—13/32" diameter x 1 1/2" length
- 600 Vac maximum
- Interrupting rating—200,000A
- Branch circuit

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
KTKR3	3	200,000A
KTKR5	5	200,000A
KTKR10	10	200,000A
KTKR15	15.0	200,000A
KTKR20	20	200,000A
KTKR30	30	200,000A
KTKR2	2	200,000A
KTKR12	12	200,000A


JJS25

CLASS T, FAST ACTING

- Provides 10X better current limitation to help prevent equipment damage caused by shortcircuit events.
- Fast-acting fuse helps prevent equipment damage caused by short-circuit events.
- Small, space-saving fuses provide a high degree of current limitation on short-circuits for excellent component protection
- Ideal for critical industrial or commercial applications that have specific current limitation requirements.
- 600 Vac maximum
- Interrupting rating—200,000A

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
JJS25	25	200,000A
JJS30	30	200,000A
JJS40	40	200,000A
JJS50	50	200,000A
JJS60	60	200,000A


FNQR5

MELAMINE, TIME DELAY, 600 VAC

- Rejection-type fuse
- Dimension—13/32" diameter x 1 1/2" length
- 600 Vac maximum
- Interrupting rating—200,000A RMS symmetrical

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
FNQR1/2	1/2	200,000A
FNQR1-1/2	1 1/2	200,000A
FNQR2	2	200,000A

Continued on next page

Part No.	Amps	Interrupt Rating Amps
FNQR5	5.0	200,000A
FNQR7	7.0	200,000A
FNQR8	8	200,000A
FNQR10	10	200,000A
FNQR12	12	200,000A
FNQR15	15.0	200,000A
FNQR20	20	200,000A
FNQR25	25	200,000A
FNQR30	30	200,000A



FNM1

FIBRE TUBE, TIME DELAY, 250 VAC

- Supplementary fuse
- Dimension—13/32" diameter x 1 1/2" length
- 250 Vac (1-10 amps) maximum
- 32 Vac (20-30 amps) maximum
- Interrupting rating—

10,000A 125 Vac

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
FNM1	1	10,000A 125 Vac
FNM2	2.0	10,000A 125 Vac
FNM3	3	10,000A 125 Vac
FNM7	7.0	10,000A 125 Vac
FNM10	10	10,000A 125 Vac
FNM20	20	10,000A 125 Vac
FNM25	25.0	10,000A 125 Vac
FNM30	30	10,000A 125 Vac



FNQ5

FIBRE TUBE, TIME DELAY, 500 VAC

- Supplementary fuse
- Dimension—13/32" diameter x 1 1/2" length
- 500 Vac maximum
- Interrupting rating—10,000A

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
FNQ12	1/2	10,000A
FNQ3	3	10,000A
FNQ4	4	10,000A
FNQ5	5.0	10,000A
FNQ6	6	10,000A
FNQ10	10	10,000A
FNQ-12	12	10,000A
FNQ15	15.0	10,000A
FNQ20	20	10,000A
FNQ30	30	10,000A


T8

PLUG, TIME DELAY

- 125 Vac maximum
- Dual element
- Edison base

Bussmann by EATON

Part No.	Amps
T8	8.0
T10	10
T15	15.0
T20	20
T25	25.0
T30	30


S3-2/10

PLUG, TIME DELAY, REJECTING BASE

- 125 Vac maximum
- Dual element
- Rejection base

Bussmann by EATON

Part No.	Amps
S3-2/10	3 2/10
S-5	5.0
S-8	8.0
S10	10
S15	15.0
S20	20
S25	25.0
S30	30


AGC1/2

GLASS TUBE, FAST ACTING

- Dimension— 1/4" diameter x 1 1/4" length
- 250 Vac maximum to 10 amps
- 32 Vac maximum to 30 amps

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
AGC1/2	1/2	35
AGC34	3/4	35
AGC1	1	35
AGC1-1/2	1 1/2	100
AGC2	2.0	100
AGC3	3.0	100
AGC4	4.0	200
AGC5	5.0	200
AGC6	6.0	200
AGC7R	7.0	200
AGC8	8.0	200

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FUSE, POWER

Part No.	Amps	Interrupt Rating Amps
AGC10	10	200
AGC15	15.0	1,000
AGC20	20	1,000
AGC25	25.0	1,000
AGC30	30	1,000

Part No.	Amps	Color
ATC3	3.0	Violet
ATC4	4.0	Pink
ATC5	5.0	Tan
ATC10	10	Red
ATC15	15.0	Blue
ATC20	20	Yellow
ATC30	30	Green


ABC1

CERAMIC TUBE, FAST ACTING

- Dimension— 1/4" diameter x 1 1/4" length
- 250 Vac maximum

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
ABC1	1	35
ABC2	2.0	100
ABC3	3.0	100
ABC4	4.0	200
ABC5	5.0	200
ABC6	6.0	200
ABC8	8.0	200
ABC10	10	200
ABC12	12.0	750
ABC15	15.0	750
ABC25	25.0	200


MDA5

CERAMIC TUBE, TIME DELAY

- 250 Vac maximum
- Dimension—1/4" diameter x 1 1/4" length

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
MDA5	5.0	200
MDA20	20	400


ATC2

BLADE TYPE, FAST ACTING

- 32 Vac maximum

Bussmann by EATON

Part No.	Amps	Color
ATC2	2.0	Gray

Continued on next page


MDL8

GLASS TUBE, TIME DELAY

- Dimension—1/4" diameter x 1 1/4" length

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
MDL8	8.0	200
MDL15	15.0	1,000


GMQ3210

CERAMIC, TIME DELAY, GMQ

- Size rejecting
- 300 Vac maximum
- Interrupt rating—10,000A
- Use fuse holder HLQ3210

Bussmann by EATON

Part No.	Amps	Interrupt Rating Amps
GMQ3210	3 2/10	10,000A

FUSE, ACCESSORIES


BRKPRO

FUSE TESTING SUPERKIT

Supco

Part No.	Includes
BRKPRO	(1) Standard Blade to 1/4" Fuse Adapter, (1) Supco Fuse Pro 3 AMP Tester with Light, (1) Standard Blade to 5mm Fuse Adapter, (1) Supco Fuse Pro 5 AMP Tester with Light, (1) Standard Blade to 4.5 mm Fuse Adapter Auxiliary Wire Harness

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


BRK3

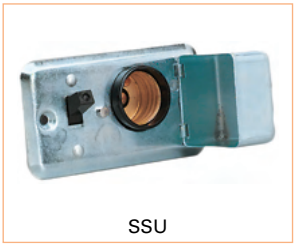
FUSE TESTER WITH LIGHT

Plugs into PC board on furnaces, boilers, air handlers or any system with a fused PCB.

- Auxiliary wires for more applications
- Built-in light for dark, hard to reach areas.
- For low voltage circuit testing w/o wasting fast-blow fuses
- NOT for permanent use, does not replace a factory accepted fuse.

Supco

Part No.	Application	Fuse Amps
BRK3	Furnaces, Boilers, Air Handlers, Unit Heaters, Rooftop Units, Water Heaters	3


SSU

PLUG FUSE BOX COVER

- Single fuse
- Switch control
- Installs easily in standard electrical box
- 125 Vac, 15A

Bussmann by EATON

		Dimensions (In.)	
Part No.	Type Box	L	W
SSU	2 1/4" Handy	2.26	2.60
SSY	4" Square	2.26	2.60

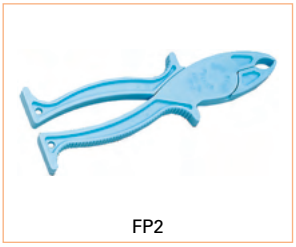

HRK

IN LINE FUSE HOLDER

- Furnished with 3 springs for different length fuses
- 8" leads
- 1/4" diameter, 7/8" to 1 1/4" length fuse

Bussmann by EATON

Part No.	Description
HRK	Fuse Holder


FP2

FUSE PULLER

Bussmann by EATON

Part No.	Application Diameter (In.)
FP2	13/32 to 13/16
FP3	1 to 1 3/4
FP6	0 to 60A T-Tron Fuse

CONDUIT FITTING


N1340

COMBINATION CABLE CONNECTOR

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Length (In.)	Pkg Qty
N1340	Combination cable connector, Romex, BX, Greenfield, 1/2" knockouts, 3/8" trade, 8 pack	1.00	8


N2307

EMT STRAP

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Length (In.)	Pkg Qty
N2307	2-Hole EMT Straps	1.00	12
N2304	2-Hole EMT Straps	1.00	8
N2308	2-Hole EMT Straps	1.00	4
N2309	2-Hole EMT Straps	1.00	4


N0028

BUSHING

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Length (In.)	Pkg Qty
N0028	Bushing, Screw-On Washer	6.00	5


N0310

REDUCING WASHER

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Length (In.)	Pkg Qty
N0310	Reducing Washer, 3/4" - 1/2"	5.00	28
N0305	Reducing Washer, 1" - 3/4"	1.00	25

CONDUIT FITTING

CONDUIT STRAP



N1306

Part No.	Length (In.)	Pkg Qty
N1306	4.50	20
N1307	6.30	12
N1304	4.60	8
N1305	3.60	6

CONNECTOR, 90



N1315

Part No.	Description	Length (In.)	Pkg Qty
N1315	90° Connector, Steel Cover, 1/2" Knockouts, 3/8" Trade	6.00	3

CONNECTOR, ROMEX



N1320

Part No.	Description	Length (In.)	Pkg Qty
N1320	Romex Connector, Clamp Type,1/2" Knockouts, 3/8" Trade	7.10	25
N1319	Romex connector, clamp type, 3/4" knockouts, 3/4" trade	1.00	4

LIQUID TIGHT CONNECTOR

Alloy steel MC connectors, liquid-tight, zinc plated.



MCLTCA

Part No.	Description	Length (In.)	Diameter (In.)	Hex Size (In.)	Type
MCLTCA	3/4" 90° Connection	3.50	2.00	1 1/8	90 Degree
MCLTCS	3/4" 90° Connection	1 31/32	1 13/16	1 1/8	Straight

PLUG ADAPTER

PLUG



N2867

Part No.	Description	Wgt (Lbs.)	Pkg Qty
N2867*	Armored Plug, Male, 2 Pole, 3 Wire 15A-125V	0.06	1
N2887*	Armored Connector, Female, 2 Pole, 3 Wire, 15A-125V	0.13	1
N5223	Triple Outlet, Heavy Duty Grounding Adapter, 15A-125V	0.14	1

PIGTAIL

- UL/CSA Listed
- 16/3 AWG (PT6), 14/3 AWG (PT9)
- PT6S is straight out, PT6/PT9 are top out



PT6

Part No.	Length (Ft.)	Wgt (Lbs.)
PT6	6.0	0.47
PT6S	6.0	0.15
PT9	9.0	1.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


69522

PATCH CORD

- Female plug x (3) large alligator clips
- 12" long

YELLOW JACKET

Part No.	Description	Wgt (Lbs.)
69522*	15A Patch Cord	0.40

BOX, SWITCH, COVER


N0270

RECEPTACLE

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N0270*	Duplex Receptacle, 2 Pole, 3 Wire,15A-125V	1


N0777

WALL SWITCH

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N0777*	On-Off, 15A, 120V	1
N1262	Silent, 2 Pole, 15A-120/277 Vac	1


N0447

TOGGLE SWITCH

- Bat handle
- All switches rated 15A, 125/250 Vac

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N0447	SPST, On-Off	1
N0455	DPST, On-Off	1
N0494	DPDT, On-Off-On	1


N0360

BOX, ELECTRICAL

- Steel

NATIONAL REFRIGERATION PRODUCTS

		Dimensions (In.)		
Part No.	Description	L	W	D
N0360	Utility, 1/2" Knockouts	3.90	2.10	1 7/8
N0361	Utility, 1/2" Knockouts, Deep	3.90	2.20	2 7/8
N0362	1900 Shallow, 21.0 cu. in., 1/2" and 3/4" Knockouts	4.00	3.90	1 1/2
N0363	1900 Deep, 30.3 cu. in., 1/2" and 3/4" Knockouts	4.00	4.00	2 1/8


N0365

BOX COVER, UTILITY

- Covers 2 1/8" x 4" box
- Plated finish

NATIONAL REFRIGERATION PRODUCTS

		Dimensions (In.)	
Part No.	Description	L	W
N0365	Wall Switch Utility Cover, 2 1/8" x 4 1/8"	5.00	2.00
N0366	Duplex Receptable Cover, 2 1/8" x 4 1/8"	6.00	3.00
N0367	Blank Utility Cover, 2 1/8" x 4 1/8"	4.40	2.10


N0368

BOX COVER, 1900 BOX

- Covers 4" x 4" box
- Plated finish

NATIONAL REFRIGERATION PRODUCTS

		Dimensions (In.)	
Part No.	Description	L	W
N0368	Wall Toggle Duplex Cover, 4" Square	4.00	4.00
N0371	Square Cover, Blank, 4" x 4"	3.90	3.70

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLDERLESS TERMINAL

QWIKLUG™ TERMINAL REPAIR KIT

Patented QwikLug® easily attaches to damaged or corroded spade connectors, quickly and easily solving the problem of a compressor with pitted or severely corroded spade terminals. Tightens quickly from the front with a Phillips head screwdriver. Has a durable brass interior shielded by nylon exterior to prevent shorting. 12 AWG / 4 ft. Leads with spade

Part No.	Description
QT2912*	QwikLug 3 Terminal Repair Lugs/Bag 12 AWG - 4 ft Leads w/ Spades

BUTT CONNECTOR, INSULATED



N6217

Part No.	Wire Size (AWG)	Pkg Qty
N6217	16-14	24
N6217L	16-14	50
N6231	12-10	19
N6217HS[1]	16-14	10
N6232L	22-18	50
N6231HS[2]	22-18	10

1 with heat shrink 2 With heat shrink

DEAD-END CONNECTOR, INSULATED



N6222L

Part No.	Wire Size (AWG)	Pkg Qty
N6222L	22-14	50
N6223L	16-10	50
N6250N	18-8	25

FEMALE FLAG SLIP ON

- Compressor applications

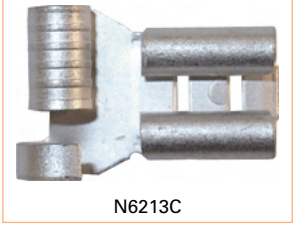


N6259

Part No.	Wire Size (AWG)	Tab Size (In.)	Pkg Qty
N6259	12-10	.250	14
N6259C	12-10	.250	100
N6270[1]	12-8	.250	25
N6258C	16-14	.250	100

1 Shown

FEMALE FLAG SLIP ON



N6213C

Part No.	Wire Size (AWG)	Tab Size (In.)	Insulated	Pkg Qty
N6213C	16-14	.250	No	100
N6224C	12-10	.250	No	100
N6277N	16-14	.250	Yes	25

FULLY INSULATED SLIP ON



N6229L

Part No.	Wire Size (AWG)	Tab Size (In.)	Gender	Pkg Qty
N6229L[1]	16-14	.250	F	50
N6233L	16-14	.250	F	50
N6234L	16-14	.250	M	50
N61234L[2]	12-10	.250	F	50
N6240	16-14	.250	M/F	25 pairs
N61235L[2]	12-10	.250	M	50
N6220	16-14	.250	M/F	11

1 With insulated grip 2 With Nylon insulation

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FEMALE INSULATED SLIP ON



N6214C

Part No.	Wire Size (AWG)	Tab Size (In.)	Insulated	Pkg Qty
N6214C	16-14	.250	No	100
N6218	16-14	.250	Yes	24
N6218L	16-14	.250	Yes	50
N6235L	22-18	.250	Yes	50
N6251	12-10	.250	Yes	19
N6251L	12-10	.250	Yes	50
N6281L	16-14	.187	Yes	50
N6282L	22-18	.187	Yes	50

MALE INSULATED SLIP ON



N6219

Part No.	Wire Size (AWG)	Tab Size (In.)	Pkg Qty
N6219	16-14	.250	24

BULLET PLUG/RECEPTACLE

- Insulated

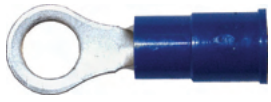


N6285L

Part No.	Wire Size (AWG)	Tab Size (In.)	Pkg Qty
N6285L[1]	16-14	Plug/.157	50
N6286L	16-14	Receptacle/.157	50

1 Pictured

INSULATED RING



N6216L

Part No.	Wire Size (AWG)	Stud Size	Pkg Qty
N6216L	16-14	10.0	50
N6236L	22-18	8.0	50

Continued on next page

Part No.	Wire Size (AWG)	Stud Size	Pkg Qty
N6252L	12-10	10.0	50
N6253L	12-10	0.25	50
N6257N	8	0.25	25
N6272L	16-14	8.0	50

INSULATED SPADE



N6227L

Part No.	Wire Size (AWG)	Stud Size	Pkg Qty
N6227L	16-14	8.0	50
N6228L	16-14	10.0	50
N6237L	22-18	8.0	50
N6255L	12-10	10.0	50
N6274L	16-14	6.0	50

INSULATED SPRING SPADE



N6238L

Part No.	Wire Size (AWG)	Stud Size	Pkg Qty
N6238L	22-18	8.0	50
N6239L	16-14	8.0	50
N6276L	16-14	8.0	50

TAB ADAPTER



N6210

Part No.	Tab Size (In.)	Gender	Pkg Qty
N6210	.250	1 M/1 F	24
N6211C	.250	2 M/1 F	100
N6212	.250	2 M/1 F	24

SOLDERLESS TERMINAL

TERMINAL KIT



N6200A

Part No.	Description
N6200A	Includes N6211 (15), N6213 (20), N6217 (10), N6218 (15), N6227 (10)
N6200D	Includes N6211 (10), N6224 (10), N6231 (10), N6251 (10), N6252 (10), N6255 (15)
N6200E	Includes: - Butt connectors: (10) 12-10 AWG wire, (10) 16-14 AWG wire, (10) 22-18 AWG wire - Dead end connectors: (10) 16 AWG wire, (10) 22-14 AWG wire - Female slip-Ons: (10) 12-10 AWG wire, (15) 16-14 AWG wire, (15) 22-18 AWG wire (0.250 tab each) - Ring Terminals: (10) 12-10 AWG wire, (10) 16-14 AWG wire (#10 stud each) - Spage terminals: (15) 12-10 AWG wire #10 stud, (10) 16-14 AWG wire #8 stud
N6200G	Includes: (10) Fully insulated female slip-on, 16-14 AWG wire, 0.250 tab (10) Fully insulated flag female slip-on, 16-14 AWG wire, 0.250 tab (10) Fully insulated male slip-on, 16-14 AWG wire, 0.250 tab (10) Insulated butt connector, 12-10 AWG wire (15) Insulated butt connector, 16-14 AWG wire (15) Insulated butt connector, 22-18 AWG wire (10) Insulated female slip-on, 12-10 AWG wire, 0.250 tab (15) Insulated female slip-on, 16-14 AWG wire, 0.250 tab (15) Insulated female slip-on, 22-18 AWG wire, 0.250 tab (10) Insulated male slip-on, 16-14 AWG wire, 0.250 tab (10) Tab adapter, 2 male/1 female, 0.250 tab (15) Tab adapter, 3-way, 0.250 tab

TERMINAL KIT - HIGH TEMPERATURE



N4200A

Part No.	Description
N4200A	Includes: (8) 16-14 high temp (900°) female and flag female slip-ons (4 pieces of each item), (4) 16-14 high temp butt connector, (4) 16-14 high temp ring for #10 stud

TERMINAL REPAIR



TLC310

- Includes 3 color coded wires and hex wrench

Part No.	Description
TLC310	10 Gauge Compressor Stake Kit
TLC312	12 Gauge Compressor Stake Kit

MAGJUMPER™



MJ1

- Ideal for recessed terminals, and low voltage troubleshooting
- No more popping off terminals
- Stays flexible in cold weather
- Great for troubleshooting thermostats, control boards, sensors and switches

Part No.	Description
MJ1	MagJumper 20" Leads, 1/4" Yellow Tip

QWIKLUG™ TERMINAL REPAIR KIT



QT2810

QwikLug™ easily attaches to damaged or corroded spade connectors. Simply push the connector on and tighten it from the front with a Phillips screwdriver. QwikLug™ comes with color coded leads for connecting to existing wiring. The outer connector housing is a nylon insulator so the connectors can touch without shorting.

Part No.	Description
QT2810*	Terminal Lugs, 30 Amps, 10 AWG / 2 ft. Leads with Nut, Pkg of 3
QT2812*	Terminal Lugs, 20 Amps, 12 AWG / 2 ft. Leads with Spade, pkg of 3
QT2910*	Terminal lugs, 30 Amps, 10 AWG / 4 ft. Leads with Nut, pkg of 3

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WIRE


UL1825

18 GAUGE

- UL Listed type CL2
- CUL Listed type CM or CHM/FT1
- NEC article 725

Part No.	Nb. of Conductors	Length Reel (Ft.)	Wgt (Lbs.)
UL1825	2	500	6.75
UL1825S[1]	2	500	4.80
UL1835	3	500	9.80
UL1835S[1]	3	500	10.65
UL184250	4	250	6.35
UL1842S[1]	4	250	6.25
UL1852	5	250	8.20
UL1852S	5	250	10.00
UL1862	6	250	9.75
UL1872	7	250	11.00
UL1882	8	250	12.50
UL1882S[1]	8	250	13.50
UL1892	9	250	13.75
UL18102	10	250	15.95
UL18122	12	250	18.00

1 Shielded


PLN5502

18 GAUGE PLENUM CABLE

- UL Listed type CMP/MPP/CL2P
- CUL Listed type CMP/FT6
- NEC article 725 and 800

Part No.	Nb. of Conductors	Length Reel (Ft.)	Wgt (Lbs.)
PLN5502	2	500	8.00
PLN5503	3	500	10.25
PLN5504	4	250	11.40
PLN5505	5	250	8.20
PLN5506	6	250	10.50
PLN5508	8	250	13.75
PLN5510	10	250	15.25


32145012

18 GAUGE PLENUM CABLE

- Plenum rated: CMP, CL2P, C(UL), FT6 LISTED
- Overall shielded
- Stranded

Part No.	Nb. of Conductors	Length Reel (Ft.)	Wgt (Lbs.)
32145012	2	500	9.98
32141012	2	1000	20.00
32265012	3	500	13.12
32261012	3	1000	26.24
32155012	4	500	16.36
32151012	4	500	32.72
32165012	6	500	22.72
32161012	6	1000	45.45
32175012	8	500	29.20
32171012	8	1000	58.39


3320210X

ECHELON® LONWORKS® CONTROL CABLES

- Stranded Bare Copper Conductor Pairs
- Plenum rated: CMP, CL2P Listed
- Unshielded

Part No.	Description	Wire Size (In.)	Wgt (Lbs.)
3320210X	Bacnet Stranded Shielded, 2 pairs	22	50.01


N632B

HOOK-UP WIRE

- Stranded
- Capacity—600V
- 48' lengths
- UL Listed

NATIONAL REFRIGERATION PRODUCTS

Part No.	Wgt (Lbs.)	Gauge	Color
N632B	0.38	16.0	Black
N632R	0.38	16.0	Red
N632W	0.38	16.0	White
N633B	0.78	14.0	Black
N633G	0.50	14.0	Green
N633R	0.50	14.0	Red
N633W	0.50	14.0	White
N634B	1.19	12.0	Black
N634R	1.19	12.0	Red
N634W	1.19	12.0	White
N635B	2.06	10.0	Black
N635R	2.06	10.0	Red
N635W	2.06	10.0	White

Continued on next page

WIRE

Part No.	Wgt (Lbs.)	Gauge	Color
N631B	3.00	8.0	Black
N631R	3.00	8.0	Red



N6336

THERMOSTAT WIRE

Part No.	Wire Size (In.)	Nb. of Conductors	Wgt (Lbs.)	Pkg Length (Ft)
N6336	18	3	0.50	40
N6337	18	5	1.19	40
N6338	18	8	2.25	40



N6341

SJT SERVICE CORD

- 300V capacity
- UL listed

Part No.	Nb. of Conductors	Wgt (Lbs.)	Pkg Length (Ft)	Gauge
N6341	3	1.19	20	16.0
N6343	3	2.02	20	14.0

WIRE MANAGEMENT



50550

WIRE FISHING, GLOW IN THE DARK

- 20-Foot Fish Tape features unique glow-in-the-dark fiberglass tape and nylon tip
- Clear housing allows the glow material to charge in the case
- Fully removable from case for more versatile application such as pass-through wire feeding

Part No.	Description
50550	Fish Tape, Glow in the Dakr, 20 Ft



56250

WIRE MARKER BOOK

- Larger, easy-to-read print on 0.2" x 1.5" labels
- Each page is perforated so that a third, two-thirds or entire the page can be easily detached
- Strong tack for lasting adhesion on oily wires
- Markers are a vinyl coated white cloth, 8 mils thick

Part No.	Description
56250	1 to 48 (14 pages)
56253	A-Z, 0-15, plus (+), minus (-), and forward slash (/) (10 pages)



N63124

WHIP

- Nonmetallic sealtite

Part No.	Length (Ft.)	Connection Size (In.)	Wire Size
N63124	4.0	1/2	10
N63126	6.0	1/2	10
N63344	4.0	3/4	8
N63346	6.0	3/4	8



N6291C

WIRE NUT

Color-coded connector shells are made from high dielectric, smooth polypropylene plastic to eliminate porosity and surface cracking. Resists practically all chemical action—unaffected by gasolines, oils, diluted acids and alkaline solutions. Heat-resistant up to 105°C (221°F). N6295 contents = 15 each Yellow, Orange, Grey, 10 each Red

Part No.	Color	Size	Style	Pkg Qty
N6291C	Grey	Mini	Non-Winged	100
N6292C	Blue	Mini	Non Winged	100
N6293C	Orange	Small	Non Winged	100
N6294C	Yellow	Medium	Winged	100
N6296C	Red	Large	Winged	100
N6295	G,O,Y,R	All	-	55

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


N6262BC

CABLE TIE, BLACK

- Ties rated to 50 lb. tensile strength

Part No.	Length (In.)	Diameter Max. (In.)	Pkg Qty
N6262BC	11.25	1.75	100
N6262BM	18.20	1.75	1,000
N6263BC	12.00	3.0	100
N6263BD	14.00	3.0	500
N6265BC	14.25	4.0	100


N6261L

CABLE TIE, NYLON

- Ties rated to 50 lb. tensile strength

Part No.	Length (In.)	Diameter Max. (In.)	Pkg Qty
N6261L[1]	9.00	1.375	50
N6262L	9.20	1.75	50
N6262M	16.30	1.75	1,000
N6263D	13.90	3.0	500
N6263L	11.00	3.0	50

1 40 lb. tensile strength


N6264N

CABLE TIE, MOUNTING HOLE

Part No.	Length (In.)	Diameter Max. (In.)	Pkg Qty
N6264N	7.00	1.75	25
N6264C	1.00	1.75	100


N6269L

CABLE TIE MOUNT

Part No.	Length (In.)	Pkg Qty	Description
N6269L	7.50	50	1", Adhesive Backing


N5381

NYLON CABLE CLAMP

Part No.	Pipe OD (In.)	Pkg Qty
N5381	1/8	54
N5382	1/4	45
N5383	3/8	41
N5384	1/2	39
N5385	5/8	37

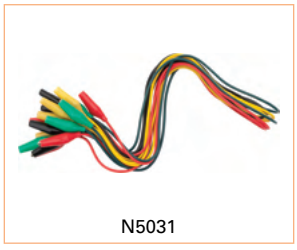

N6370

HEAT SHRINK TUBE ASSORTMENT

- Assorted 6" lengths
- Includes 2 pieces each of: 1/8" Black; 1/8" White; 1/4" Black; 1/4" White; 1/2" Black; 1/2" White

Part No.	Description
N6370	Heat Shrink Tube Assortment

TEST LEAD


N5031

TEST LEADS

Part No.	Description
N5031	Leads, Color Coded, Alligator Clip, Small
N5032	Leads, 18" Wire, Alligator Clip, Medium
N5035	Alligator Clip, 2", Medium
N5036	Test Clip, 2 1/2", Large
N6025	Compressor Lead Kit

NOTES

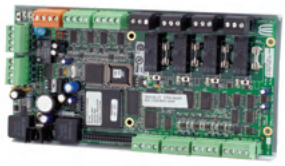
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Sporlan Electronics **Page**
- System Controllers 948-949
- Electronic Expansion Valve 949

Micro Thermo Technologies
- Parker - Micro Thermo Technologies 950-951

Emerson
- Controller 952
- Sensor 953-954
- Pressure Transducer 954
- Transformer 954

Danfoss
- Adap-KoolB® 955-956
- Sensor 956

Carel **Page**
- Controller 957-958
- Sensor 958-959
- Electronic Expansion Valve 959-960

K2 Therm Solutions
- Controller 961-963

Hussmann
- Hussmann 964-965

Krack
- Krack 966

Robertshaw
- Controller 967-967

SYSTEM CONTROLLERS



TCB

TEMPERATURE CONTROL BOARD

In addition to the 0 to 10 volt DC or 4 to 20 milliamps signal usual from PID controllers, the TCB can be configured to modulate a valve in response to a TTL (5 volt) signal, or a 24-120 volt AC pulse of three to thirty seconds duration. The TCB may be ordered less potentiometer if an external signal (e.g. 4-20ma) is to be used. The board was designed for easy standoff mounting in electrical panels supplied by others, and with screw terminal wiring connections. The TCB has been designed to work with Sporlan SEI/SEH Electric Expansion Valves, CDS Electric Suction Control Valves, and SDR Electric Hot Gas Bypass Valves of any capacity except 2500 step valves such as CDST-4 & CDST-7. Pin jumpers on the face of the board will permit changes in board control parameters to suit particular applications.

Part No.	Description
TCB*	Sporlan Tcb Board W/Potentiometer (952664)
TCBNP*	Sporlan Tcb Board Less Potentiometer (952660)



952570

SUBCOOLER CONTROLLER

- Monitors and controls superheat and subcooling
- Precise EEV control
- 16 different refrigerants
- Multiple selectable sensor and transducer curves

Part No.	Description
952570*	Subcooler controller, all refrigerants



952567

KELVIN II CONTROLLER

This standalone superheat controller may also be connected with a Modbus® master for remote access to pressure and temperature readings in addition to viewing and editing the controller's setpoints. A remote display unit is optional.

Features:

- Superheat control
- Optional room temperature control
- 4-digit LED display and input knob
- OEM version available without display
- Optional remote display unit
- Optional display networking for 2-valve control

Part No.	Description
952567*	Kelvin controller, with display
952569*	Kelvin controller, less display
952568*	Kelvin Controller, Remote Display Unit
953444*	Kelvin power supply 100-240 VAC/24VDC



PSK233N5EXBS

DIGITAL REFRIGERATION CONTROLLER

Sporlan's PSK Series electronic controllers manage low and medium temperature refrigeration units by controlling compressors, defrost, lights and fans.

PSK221/231

- Single Relay Output
- Medium temperature applications, controlling compressor and off-cycle defrost
- Available in 8A-30A output (1/3HP - 2HP)
- Available with 1-2 inputs

PSK223/233

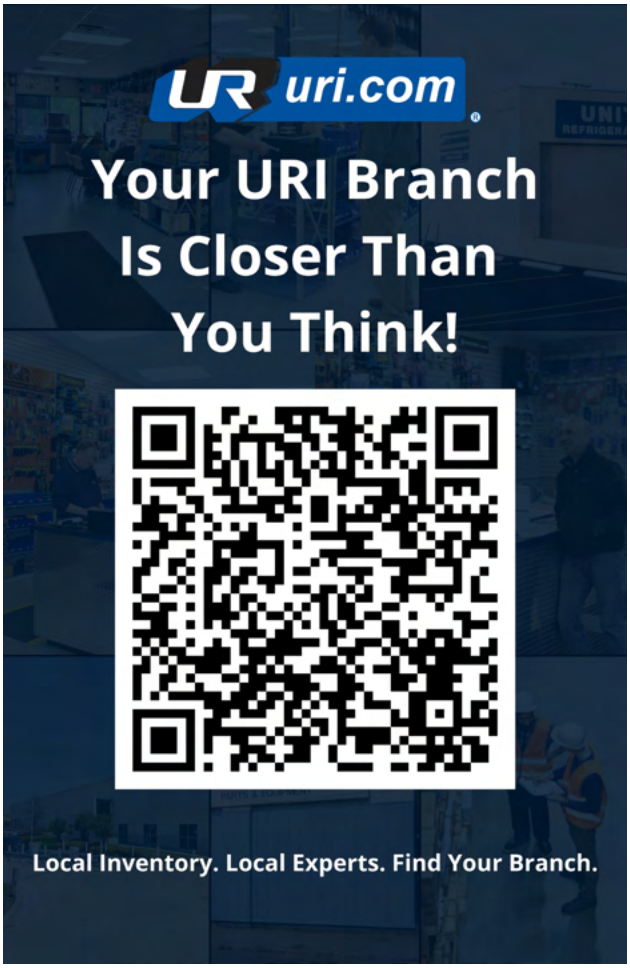
- Three Relay Outputs
- Low temperature applications, controlling compressor, evaporator fans, and electric/hot gas defrost
- Available in 8A-30A output (1/3HP - 2HP)
- Available with 2-3 inputs

PSK214

- Four Relay Outputs
- Offers entire system management by controlling compressor, evaporator fan(s), electric/hot gas defrost, and auxiliary (light, anti-sweat heater, etc.)
- HACCP compliant data logging
- Available with 3-4 inputs
- Real Time Clock (RTC) for added control

Part No.	Description
PSK233N5EXBS*	Digital temperature controller, low temperature, 120V, 1 HP
PSK221N7EXBS*	Digital temperature controller, medium temperature, 230V, 16A
PSK214N9EXBS*	Digital Controller, 115-230V, 4 Relay

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IB-G

INTERFACE BOARD

Digits in alternate number indicates number of steps controlled

Part No.	Description
IB-G*	Interface Board, quick response, for SEI/SER/SEH/SEV/ESX, CDS, SDR

ELECTRONIC EXPANSION VALVE



SERC-3X5

ELECTRONIC STEPPER

- Step motor operated for precise control
- High resolution drive assembly
- Solenoid tight seating
- Corrosion resistant materials used throughout
- Field proven reliability
- Low power consumption (less than 4 watts)
- Compatible with HCFC and HFC refrigerants and oils, in addition to subcritical CO
- Self lubricating materials used for long life
- High linear force output
- Operating temperature: -50° to 155°F
- MOPD: 580 Psid (500 for SERIG)
- 2500 steps

		Connection Size (In.)		
Part No.	Configuration	Inlet	Outlet	Overall Height (In.)
SERC-3X5*	Angle	3/8	5/8	6.2
SERIF-7X9*	Angle	7/8	1 1/8	8.56
SERIG-7X9*	Angle	7/8	1 1/8	8.56
SERIJ-7X7*	Angle	7/8	7/8	8.56

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PARKER - MICRO THERMO TECHNOLOGIES



962-500Q

REFRIGERATION CONTROLLER

Micro Thermo's Refrigeration controllers are designed to interface with any type of refrigeration system. MT controllers are engineered to enhance the operating efficiency of your refrigeration equipment ensuring accurate control of all temperature and pressure settings. The hardware consists of intelligent boards, referred to as "nodes", that control and monitor all types of refrigeration equipment including compressors, condensers, refrigeration cases, suction groups, defrost refrigeration circuits, secondary coolant systems, subcoolers and anti-sweat and EEPR valves.

- Seamless integration and control of all functions of all types of multi-compressor refrigeration systems
- Monitoring of key parameters to ensure safe operating conditions at all times
- Provides compressor sequencing to avoid unnecessary cycling and stagger runtime for longer life
- Multiple strategies for hot gas, off-time and electric defrost
- Visual point and click defrost scheduling to balance defrost cycles across all circuits
- Provision to easily add additional intelligent nodes as your equipment needs grow, without compromising overall system performance
- Easy to install, operate and maintain with reduced wiring requirements

Part No.	Description
962-500Q	MT500 Refrigeration Controller
962-504P	MT504 Refrigeration Controller
962-508P	MT508 Refrigeration Controller
962-512P	MT512 Refrigeration Controller
961-632F	Compressor Controller
962-634B	Circuit Controller




962-636C

DUAL TEMP ELECTRONIC EVAPORATOR PRESSURE REGULATOR CONTROLLER

The temperature control is based on a direct reading of the air temperature in refrigerated cases. It automatically positions the DT-EEPR valve that throttles the suction on the evaporators. This throttling action increases the evaporating pressure and/or temperature with respect to the suction manifold pressure. DT-EEPR controlled valves are considerably more precise than mechanical Evaporator Pressure Regulator (EPR) valves, allowing regulation of the average temperature to within ±0.18°F or better.

Part No.	Description
962-636C	Dual Temperature Electronic Evaporator Pressure Regulator Controller


962-336A

ALARM RELAY BOARD

The MT336A Alarm Relay Board is used by the Micro Thermo system for hardwired alarm notices. Four built-in relays can be independently configured, and used to activate buzzers, lights, or can be connected to a security panel for 3rd party alarm monitoring. Multiple Alarm Boards can be used together, if additional relays are required.

Part No.	Description
962-336A	Alarm Relay Board


023-0072

TEMPERATURE SENSOR

Sporlan Temperature Sensors are ideally suited for Kelvin II series, S3C, and legacy controllers. They are available in 2K, 3K, 10K, and 98.6K resistance ratings.

- Kelvin II Superheat, Temperature, Pressure, Subcool, Secondary Fluid and Chiller Controls
- S3C Case Control
- Cold Room Control
- Temperature Control Board (TCB)
- Legacy controllers such as the Subcool-O-Matic, Two Valve Controllers and similar boards

Part No.	Description
023-0072	Defrost Termination Temperature Sensor
023-0073	Discharge Temperature Sensor, Bullet Type
023-0076	Pipe Temperature Sensor


023-0026

WALL HUMIDITY TEMPERATURE SENSOR

This probe is designed for relative humidity and temperature measurement of occupied spaces. The relative humidity transmitter uses a capacitive type humidity sensor and a micro processor temperature compensation for reliable, accurate readings.

Part No.	Description
023-0026	Wall Humidity Temperature Sensor


952-0001

PRESSURE TRANSDUCER

Sporlan Pressure Transducers are ideally suited for Kelvin II series, S3C, SCS, and legacy controllers. They are available in a variety of pressure ranges. They feature a stainless-steel body and utilize a Packard connector to achieve an IP67 rating for ingress protection.

- 0.5-4.5V ratiometric signal
- Absolute and Gauge options available
- 0-150, 0-300, 0-500, 0-652, and 0-2000 PSI ranges
- Ingress Protection: IP67
- Kelvin II Superheat, Temperature, Pressure, Subcool, and Chiller Controls
- S3C Case Control
- SCS-PB, SCS-SB
- Cold Room Control
- Legacy controllers such as the Subcool-O-Matic, Two Valve Controllers and similar boards

Part No.	Description
952-0001	Pressure Transducer for Refrigerant 100 psig
952-0004	Pressure Transducer for Refrigerant 200 psig
952-0002	Pressure Transducer for Refrigerant 500 psig
952-0008	Pressure Transducer for CO 652 psig
992572	0-150 Pressure Transducer L/Cable
992574	0-300 Pressure Transducer L/Cable 410A
992576	0-500 Pressure Transducer L/Cable Co2

CONTROLLER



943029100

UNIVERSAL XR REPLACEMENT CONTROLLER

The Universal-XR has been developed to allow a refrigeration technician to replace any refrigeration control easily with just three SKU's stocked on their service truck. The Dixell Universal Replacement Controller has three Voltage options. With the press of a few buttons, the control can be set up to replace Dixell controls, such as: XR10C, XR10CX, XR110C, XR02CX, XR20C, and CX, XR120C, XR03CX, XR30CX, XR04CX, XR40CX, XR06CX, XR60CX, XR160C and other manufacturer's controls.

- Replaces the majority of controls for: Heating, Medium Temp, Low Temp, Defrost, and Fan.
- Quick installation
- Panel: Self-extinguishing ABS

Part No.	Voltage
943029100	120
943029200	230
943029300	12/24


318-6030

XR75CX DIGITAL CONTROLLER

XR75CX is a microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigeration units. It has 4 relay outputs to control compressor, fan, and defrost, which can be either electrical or reverse cycle (hot gas) and light (configurable). It can also have up to 4 NTC probe inputs. The first probe is used for temperature control. The second probe is used to control the defrost termination temperature at the evaporator. One of the 2 digital inputs can operate as a third temperature probe. The fourth probe is used to control the condenser temperature (for condenser alarm management) or to display a temperature value. Set the PbC parameter to CtC to support standard CPC temperature sensors (factory default). The RS-485 serial output enables the unit to be connected to a network line that is MODBUS-RTU compatible, such as the monitoring units of XWEB family. The Hot Key receptacle allows the controller to be programmed by means of the Hot Key programming keyboard. The controller is fully configurable through special parameters that can be easily programmed through the keyboard.

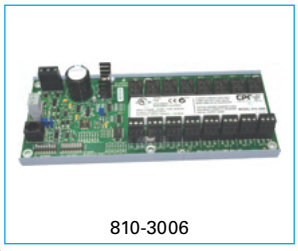
Part No.	Description	Voltage
318-6030	XR75CX Controller, 110 volt	110
318-6031	XR75CX Controller, 230V	230


318-6040

XR75CX CASE DISPLAY I/O

XR75CX-Case Display is a microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigeration units. It has up 4 analog inputs: discharge air temperature, product temperature, defrost temperature and coil out temperature, 4 relay outputs, and up to 2 digital inputs. The Case Display displays these temperatures and values on an LED display. It may be networked with an E2 RX controller (software version 3.02 or higher) to share sensor data with a Standard Circuit application that controls the case refrigeration. Because the Case Display requires only a single network cable to communicate with an E2, cases equipped with XR75CX-CDs require significantly less wiring and installation labor than traditional installations (which typically require one cable per sensor run to a centrally located group of input boards). The XR75CX-CD may control 4 external loads directly from its 4 onboard dry-contact relay outputs. The RS-485 serial output enables the unit to be connected to a network line that is MODBUS-RTU compatible.

Part No.	Description
318-6040	XR75 Case Display, 110 VAC
318-6050	XR75 Case Display, 110 VAC
318-6051	XR75 Case Display, 230 VAC


810-3006

INPUT/OUTPUT BOARD

The MultiFlex line of distributed controllers provides a wide variety of input, output, and smart control solutions, all of which are based on a single universal hardware platform.

- Single universal hardware platform
- Combines inputs and outputs, saving time
- Reduces space requirements for I/O boards by up to 50%
- Mount using either standoffs or "snap track"
- Provides input-output variety

Part No.	Description
810-3006	Relay Output Board, 8 Replay Outputs
810-3013	16 Analog/Digital Inputs Board
810-3062	Multiflex RTU Board
810-3063	Multiflex Board
810-3064	Multiflex Board
810-3065	Multiflex Board
810-3066	Multiflex Board
810-3199	ESR Board

SENSOR


201-1152

HVAC TEMPERATURE SENSOR

This is a wall mounted space temperature sensor, suited for a wide variety of applications. The temperature sensor has a 10kilo-ohm thermistor.

- Temperature sensor has a 10K thermistor
- Maintains less than 0.72°F error between -40 and 248°F
- Sensor can be wired to any available point on the 16 AI board
- Includes 2 mounting screws

EMERSON

Part No.	Description
201-1152	Temperature Sensor with Sunshield
201-2007	Wall-Mounted Space Temperature Sensor w/out Slider
809-6590	Wall-Mounted Space Temperature Sensor


501-1125

REFRIGERATION TEMPERATURE SENSOR

This is a general purpose temperature sensor, suited for a wide variety of applications. The temperature sensor has a 10K thermistor enclosed in a nickel-plated brass shell with epoxy.

EMERSON

Part No.	Description
501-1125	Coil Inlet Temperature Sensor, 20 Ft
501-1126	Coil Outlet Temperature Sensor, 20 Ft
501-1135	Defrost Termination Temperature Sensor, 10 Ft
501-1127	Defrost Termination Temperature Sensor, 20 Ft
501-1134	Discharge Air Temperature Sensor, 10 Ft
501-1129	Discharge Air Temperature Sensor, 20 Ft
201-1191	High Temperature Sensor, 15 Ft
501-1160	NSF Approved Temperature Sensor, 20 Ft
501-1161	NSF Approved Temperature Sensor, 20 Ft
501-1128	Return Air Temperature Sensor, 20 Ft
501-1121	Temperature Sensor, 10 Ft Pigtail
501-1122	Temperature Sensor, 20 Ft Pigtail


203-5751

CO2, DEWPOINT AND HUMIDITY SENSOR

EMERSON

Part No.	Description
203-5751	Wall Mounted Relative Humidity Sensor
203-5754	Outdoor Relative Humidity Sensor
210-2000	Indoor CO Sensor
510-2001	Indoor CO Sensor

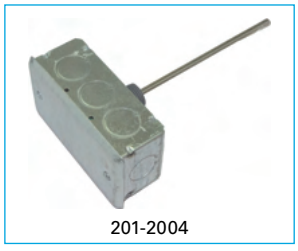

206-0002

LIGHT LEVEL SENSOR

These light level sensors provide the controller with information that allows the controller to switch light ON or OFF.

EMERSON

Part No.	Description
206-0002	Outdoor Light Level Sensor
206-0009	Skylight Level Sensor


201-2004

TEMPERATURE PROBE

Temperature sensor are designed for measuring the air temperature for various applications. The 10K thermistor is enclosed and has been tested to maintain less than 0.72°F error between -40°F and 248°F.

EMERSON

Part No.	Description	Use with
201-2004	Immersion Temperature Sensor	Measures Temp. Inside Small Diameter Duct Work
201-2008	Insertion Temperature Sensor	HVAC Duct and Walk-In Evaporator
201-2112	Insertion Temperature Sensor	HVAC Duct and Walk-In Evaporator
501-6150	Temperature Probe	Temperature Measurement for Walk-In Evaporator, Typically Used In Convenience Stores

SENSOR


275-0145

LEAK DETECTION SYSTEM ACCESSORIES

The RLDS is designed for easy installation and maintenance. These parts are all made for servicing the various units.

Part No.	Description
275-0145	End of Line Filter Kit
275-0232	Internal Water Stop Filter
275-0259	Universal Power Supply
275-0275	Charcoal Filter Assembly
275-0315	End of Line Filter
275-0345	In-Line Filter
275-0600	Annual Maintenance Kit w/Filters
275-0234	In-Line Water Trap
275-0235	In-Line Water Trap Filter Element


809-1000

MODULAR REFRIGERANT LEAK DETECTION SENSOR

Continuously monitors for low levels of refrigerants most commonly used in commercial refrigeration systems. The MRLDS communicates with the E2 controller via a Gateway board connected to the RS485 I/O Network, or via the analog input on a MultiFlex board.

- Range: 0 to 1000 ppm
- Operating Temp: 32 to 149°F (-22 to 149°F with de-icer)
- Power requirements: 24 VAC, ±20%, 50/60 Hz, Class 2

Part No.	Description
809-1000	Modular Refrigerant Leak Detection Sensor without de-icer
809-1010	Modular Refrigerant Leak Detection Sensor without de-icer
809-1011[1]	Modular Refrigerant Leak Detection Sensor with de-icer

1 De-Icer for environments below 32°F to keep ice from forming on the surface of enclosure

PRESSURE TRANSDUCER

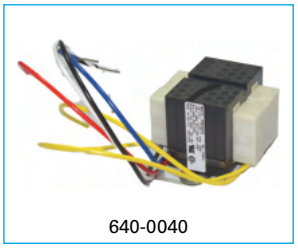

800-2100

PRESSURE TRANSDUCER

The family of pressure transducers has a stainless steel housing and is available with Male 1/8-27 NPT fitting or Female 7/16-20 UNF-2B with Schrader Deflator fitting. The rugged design makes the transducer compatible with all HFC/HCFC refrigerants, water, glycol, CO2, and ammonia. The sensor includes a 20' cable with a weather-proof Packard Electric Metri-Pack Series connector to allow for ease of sensor replacement. The sensor is available in six pressure ranges.

Part No.	Description	Pressure Range (psi)
800-2100	Pressure Transducer	0 to 100
800-2200	Pressure Transducer	0 to 200
800-2500	Pressure Transducer	0 to 500
800-2650	Pressure Transducer	0 to 650

TRANSFORMER


640-0040

TRANSFORMER

Part No.	Description
640-0040	Transformer, 50 VA
640-0080	Transformer, 80 VA
640-0045	Transformer, 100 VA
640-0056	Transformer, 56 VA

ADAP-KOOL®



080Z0007

I/O COMMUNICATION AND EXTENSION MODULES

Input/Output (I/O) expansion modules are used in applications requiring more connections than featured on a given control: up to nine extension modules may communicate through each communication module. I/O modules require a communication module to communicate with frontend system managers.

Part No.	Description
080Z0007	Extension Module, AK2-XM 101A, 8 Analog Inputs
080Z0008	Extension Module, AK2-XM 101A, 8 Digital Inputs
080Z0013	Extension Module, AK2-XM 101B, 8 Digital Inputs
080Z0011	Extension Module, AK2-XM 204A, 8 Digital Outputs
080Z0018	Extension Module, AK2-XM 204B, 8 Digital Outputs
080Z0010	Extension Module, AK2-XM 205A, 8 Analog Inputs, 8 Digital Outputs
080Z0017	Extension Module, AK2-XM 205B, 8 Analog Inputs, 8 Digital Outputs
080Z0022	Extension Module, AK2-XM 208B
080Z0061	Communications Module, AK2-CM 101A, Lonworks TP78
080Z0063	Communications Module, AK2-CM 101C
080Z0290	Din Rail, AK2 Modules
080Z0032	Extension Module, AK-XM 103A, 4 Analog Inputs, 4 Analog Outputs
080Z0023	Extension Module, AK-XM 208C, 8 Analog Inputs, 4 Stepper Out



DRMON-1

DOOR MONITOR SWITCH ASSEMBLY

Magnetic contact switch that provides a signal to your Danfoss environment control system to ensure that the doors on refrigerated walk-in boxes are properly closed when not in use. Typically set to alarm in the closed position, indicating that a door has been left open.

Compatible with all Danfoss AK255 controllers as well as legacy controllers (AKC55, NC-25)

Part No.	Description
DRMON-1	Magnetic Contact Switch: 120 VAC, N.O.



060G3990

PRESSURE TRANSDUCER

- Used with Adap-Kool® control systems
- Compact design pressure transmitter
- Piezoresistive sensing element
- Resistant against vibrations, pressure pulsations, humidity and ice formation
- Maximum test pressure: 800 psi

Part No.	Pressure Range (psi)	Connection Size (In.)
060G3990	0 to 200	1/8
060G3991	0 to 500	1/8



084B8520

EKC/AK2 CONTROLLER

All of the controls below control anti-sweat heaters, fan operation, lighting door alarms, case cleaning, dual temperature control, and provide alarm notification.

Part No.	Description	Voltage
084B8520	AK-CC 210 Controller (10 output configs)	210
084B8521	EKC 202A Controller (Ref/Def or Alarm)	220
084B8522	EKC 202B Controller (Ref/Def/Fan)	220
084B8534	EKC 204A Controller (10 output configuration)	115



080Z2161

EKC/AK2 CONTROLLER ACCESSORIES

Part No.	Description
080Z2161	AK-CC 750 Custom I/O Panel
084B8564	EKA 178 Modbus Module
084B8565	Data Com Module, EKA-179, LON to RS485, requires 084B2254
084B8670	EKA Remote Display (Green Display)
60-274	Bracket, Metal for EKC

ADAP-KOOL® HVAC CONTROLLER


080Z2117

RTC to AK2 board conversion kit. Converts obsolete RTC board to AK2 IO modules. Includes: Documentation, Power supply, Wire

Part No.	Description
080Z2117	AK IO - Rooftop kit

SENSOR

PRESSURE SENSOR


060G1890

AKS 32 and AKS 33 pressure transmitters measure and convert pressures to a standard signal (1 to 5 V DC for AKS 32 and 4 to 20 mA for AKS 33). AKS 32R and AKS 2050 ratiometric pressure transmitters measure and convert pressure to a linear output signal (the minimum value of the output signal is 10% of the actual supply voltage and the maximum value is 90% of the actual supply voltage). AKS 2050 pressure transmitters are designed specifically for CO2 pressure ranges.

Part No.	Description
060G1890	Pressure Transmitter, AKS 32, 0-500 PSI
060G1034	Plug Connector with 5 Meter Cable
060G1037	Pressure Transmitter, AKS 32R

TEMPERATURE SENSOR


084N3016

Part No.	Description
084N3016	Temperature Sensor, MBT 153
080Z2186	Air Supply Duct Probe Sensor
080Z2185	Box Temperature Probe Assembly
080Z2187	Zone Temperature Sensor, Indoor
AKCOTC	Condenser Air probe
CTPKIT	Com-Trol and CPC Temperature Sensor Resistor Kit
TP1KIT	AK-2 Pullup Kit

SURFACE AND DUCT SENSOR, AKS 11


084N0005

- Temperature range: -58 to +212°F
- PT 1000 ? sensor

Part No.	Type	Temperature (°F)	Resistance (Ohm)	Lead Length
084N0005	AKS 11	-58 to 212	1000	5.50′
084N0008	AKS 11	-58 to 212	1000	8.50′
084N0029	AKS 11	-58 to 212	1000	27.5′

HUMIDITY SENSOR AND LIGHT LEVEL SENSOR


080Z2171

Part No.	Description
080Z2171	Humidity with Temperature Sensor, Indoor
080Z2172	Photocell with Temperature Sensor, Outdoor



CONTROLLER



IJWPSA2B02S0519

IJW PANEL MOUNT CONTROLLER

Designed for both field replacements and new installations, simple to use thanks to native BLUETOOTH and NFC connectivity. Installers can use their smartphone with APPLICA for configuration, testing and maintenance of the controller, while the end users can optimise everyday tasks (such as recording HACCP data) with CONTROLLA.

- Controllers with 2, 4 or 6 relays
- Small and Large format
- Compatibility with NTC, PTC, PT1000 probes
- Humidity measurement and management (optional)
- RS485 or TTL port for connection to supervisory system
- Modbus or CAREL protocol.

Part No.	Description
IJWPSA2B02S0519	Small 2 Relay Bluetooth Controller
IJWPSA4B02S0523	Small 4 Relay Bluetooth Controller



IR33V7LR20

IR33 UNIVERSAL CONTROL

The ir33 Universal controller lets you manage several values at the same time, including temperature, humidity, pressure, CO, VOC... Suitable for temperature control in HVAC/R applications and/or generic applications that require the use of a thermostat in the range -58 to 302°F. ir33 universal is an advanced controller that includes all the features already available in the ir32, adding some new sophisticated functions.

- 9 pre-set control modes
- Two independent control loops
- Selectable NTC, PTC or PT1000 sensor input options
- 1, 2 or 4 outputs relay or SSR drive outputs
- Infrared remote control and external key programming options
- RS485 serial link for monitoring and programming
- IP65 water and dust protection
- Management of the clock
- Working cycles
- Programmable advanced control options
- The large display, complete with icons, makes it easy to set the parameters.
- Available with 12 to 24 Vac/ 12 to 30 Vdc, 24 Vac/dc or 115 to 230 Vac power supply

Part No.	Description	Voltage
IR33V7LR20	ir33 universal controller, 1 relay	12-24
IR33W7LR20	ir33 universal controller, 2 relays	12-24



IREVC0HC00

IR33+ REFRIGERATION CONTROL

Inherits and extends all the features of ir33

- Touch keypad
- Completely flat surface
- Larger display
- Intuitive user interface
- Modbus® and CAREL protocols
- Mechanical, electrical and functional compatibility with ir33

Part No.	Description	Voltage
IREVC0HC00	ir33+ controller	115-230



PJEZS0G000

EASY SERIES REFRIGERATION CONTROL

The Easy Series is designed specifically for refrigeration control in bar, catering, display cabinet and refrigerated showcase applications, designed directly based on requirements "from the field", with an elegant and modern design. Easy simplifies the initial configuration phase of the unit and features new technology for creating special models with custom functions.

- Easy programming of the parameters, with 4 predefined sets of parameters available
- Easy installation using the front mounting system
- Easy wiring, thanks to the built-in transformer and the relays with power rating up to 2 HP
- Easy to identify the best solution, thanks to the vast range of models available
- Easy to read, high efficiency display and digits that are 27% larger than traditional displays
- PJEZS, designed for the management of static refrigerating units, no fan on the evaporator, operating at temperatures above 32°F
- PJEZC, designed for the management of low temperature ventilated refrigerating units

Part No.	Description	Voltage
PJEZS0G000	Easy powerline controller Red Display	230
PJEZS0G100	Easy powerline controller Red Display	115
PJEZS0H100*	Easy powerline controller Red Display	115
PJEZC0M100	Easy powerline controller Red Display	115-230
PJEZSNH100	Easy compact controller Red Display	115

CONTROLLER



MX30M21HO0

MPXPRO REFRIGERATION CONTROL

The MPXPRO platform has been designed for the complete control of multiplexed showcases, with special focus not only on energy performance and flexibility but also on simplicity of use and installation. The device can independently control a refrigeration unit using a wide range of probes, digital or analogue inputs and outputs specially designed and sized for the specific functions. In addition, it is fitted with a clock (RTC) for the synchronisation of the events in the tLAN and features connection to the supervisor network (RS485).

Part No.	Description
MX30M21HO0	MPXPRO Controller
MX30M25HO0	MPXPRO Controller



MXOPZKEYA0

CONTROLLER ACCESSORIES

Accessories for the ir33, Easy Series and MPXPRO controllers

Part No.	Description
MXOPZKEYA0	MPXPRO programming key
IR00UGC300	MPXPRO user terminal
IR00XG6300	MPXPRO user terminal
IROPZKEYA0	ir33 programming key
IROPZ48500	Serial Card
PSTCON05B0	Connector for Remote Display

SENSOR



NTC060HF01

NTC TEMPERATURE SENSOR

The Carel temperature probes are resistive transducers, that connected to a programmable or a parametric controller, allow the temperature to be controlled. These are used in HVAC-R applications and represent a complete range capable of satisfying a variety of needs in different installations. The probes are made using materials that guarantee reliability over time. The range includes various models suitable to be used for several application fields.

Part No.	Description	Temperature (°F)	Length (Ft.)
NTC060HF01	NTC HT Sensor	-58 to 194	20.0
NTC030HP00	NTC HT Sensor	-58 to 221 (122 in water)	10.0
NTC060HP00	NTC HP Sensor	-58 to 221 (122 in water)	20.0
NTC015WH0S	NTC WH Sensor	-58 to 221	4.5
NTC030WH0S	NTC WH Sensor	-58 to 221	9.0
NTC060WH0S	NTC WH Sensor	-58 to 221	18.0
NTC060WF0S	NTC WF Sensor Fast Response	-58 to 221	20.0



SPKT0021C0

4 TO 20 PRESSURE SENSOR

These pressure transducers are used above all in refrigeration and air-conditioning applications to measure the pressure in the refrigerant circuits, however their high performance also makes them ideal for many other applications. They can also be used in refrigerant circuits containing ammonia.

- Steel 1/4" SAE female fitting with deflector, 7/16" - 20 UNF, PACKARD connector
- 4 - 20 mA current range

Part No.	Description	Pressure Range (psi)
SPKT0021C0	Pressure sensor, 4-20 mA	0 to 100
SPKT0031C0	Pressure sensor, 4-20 mA	0 to 435
SPKT00B1C0	Pressure sensor, 4-20 mA	0 to 650
SPKT00B1D0	Pressure sensor, 4-20 mA	0 to 650


SPKT0031S0

0 TO 5 V RATIOMETRIC PRESSURE SENSOR

The SPKC series pressure sensor cables are flexible and feature a PVC insulating sheath with a wide temperature range (from -20°C up to 105°C). These are ideal for use as static internal wiring in electronic equipment. The cables are available in various lengths, in versions with IP55 - IP67 - IP69K Packard connectors. They are used to connect the entire range of Carel SPKT* series pressure sensors (ratiometric and 4-20 mA

Part No.	Description	Pressure Range (psi)
SPKT0031S0	Pressure sensor, 0 - 5 Vdc	0 to 500
SPKT00B1S0	Pressure sensor, 0 - 5 Vdc	0 to 650
SPKC002310	Packard Cable and Connector	N/A
SPKC005310	Packard Cable and Connector	N/A


PT1060HF01

PTC TEMPERATURE SENSOR

The Carel temperature probes are resistive transducers, that connected to a programmable or a parametric controller, allow the temperature to be controlled. These are used in HVAC-R applications and represent a complete range capable of satisfying a variety of needs in different installations. The probes are made using materials that guarantee reliability over time. The range includes various models suitable to be used for several application fields.

Part No.	Description	Temperature (°F)	Length (Ft.)
PT1060HF01	PT1000 Suction Temperature Probe for Superheat	-58 to 212	20.0
PT1060HP01	PT1000 Suction Temperature Probe	-58 to 212	10.0
PT1060HT01	PTC HT Temperature Sensor	-58 to 302	20.0
PT1060WP01	PTC WP Temperature Sensor	-58 to 212	20.0


DPWC114000

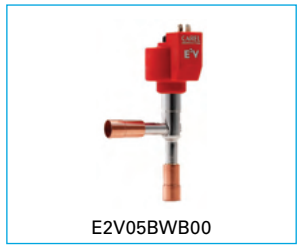
ACTIVE WALL MOUNTING SENSOR

Particularly suitable for civil and commercial environments with precise design requirements. Used in ducted heating and air conditioning systems. The range also includes models with RS485 connection using the CAREL or Modbus® protocol.

- Temperature Range: 14 to 140°F
- Humidity (Non-Condensing): 10 to 90% RH
- Power Input (DC): 8 - 32 V
- Power Input (AC): 12 - 24 V
- Output:Serial RS485 Opto-isolated

Part No.	Description
DPWC114000	Active Wall Mounting Sensor

ELECTRONIC EXPANSION VALVE


E2V05BWB00

ELECTRONIC EXPANSION VALVE, E2V SMART

Part No.	Description	Connection Size (In.)
E2V05BWB00	E2V Electronic Expansion Valve, Size 5	3/8 - 1/2 ODF


E3V30CWM00

ELECTRONIC EXPANSION VALVE, HIGH PRESSURE, E3V

Part No.	Description	Connection Size (In.)
E3V30CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 30	5/8 - 5/8 Steel
E3V35CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 35	5/8 - 5/8 Steel
E3V45CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 45	5/8 - 5/8 Steel
E3V65CWR00	E3V Electronic Expansion Valve, Steel, high pressure, Size 65	7/8 - 7/8 Steel

ELECTRONIC EXPANSION VALVE



E4V95BWT00

ELECTRONIC EXPANSION VALVE, E4V SMART

Part No.	Description	Connection Size (In.)
E4V95BWT00	E4V Electronic Expansion Valve, with Sight Glass, Size 95	1 1/8 - 1 3/8 Integral Screw



E2VCABS300

E2V ACCESSORIES

Part No.	Description
E2VCABS300	EEV connector and shielded cable
E2VCABS600	EEV connector and shielded cable
EEVMAG0000	Tool for manual driving of EEV stepper valve
E2VMAG0000	Tool for manual driving of EEV valve





EVD0000E50

DRIVER FOR ELECTRONIC EXPANSION VALVE, E2V

The new EVD evolution driver has been enhanced with advanced functions and a new user interface that makes it even easier to use and configure:

- Superheat control with auxiliary high pressure, low pressure and low superheat protection
- New battery module
- Twin version to control two valves
- Self-adaptive algorithm
- Algorithm for Digital Scroll applications
- Connection diagram visible on the display
- Removable multi-language graphic display, with “help” on the parameters
- Multiple units of measure (metric or Imperial)

Part No.	Description
EVD0000E50	EVD EVO (RS485/ModBUS)
EVD0000T20	EVD EVO (RS485/ModBUS) Twin
EVD0000T50	EVD EVO (RS485/ModBUS) Twin
EVDIS00EN0	EVD EVO Display - English



EVD0000UC0

ULTRACAP MODULE FOR EVD EVO

An optional external backup device for the EVDEvo used to close the valves in the event of mains power failures. The module guarantees temporary power to the EVDEvo (single or twin) in the event of power failures, for enough time to immediately close the connected electronic valves (one or two).

Part No.	Description
EVD0000UC0	Optional external backup device for the EVDEvo



EVDKJE332A

E2V DRIVER KIT

Carel ExV kits include standard components typically ordered with a valve for convenience. Kits Include a Carel Valve driver, Valve Cable, Display, Pressure Sensor, Connection Cable and NTC Sensor

Part No.	Description	Use with
EVDKJE332A	E2V Twin Valve Driver Kit	Universal Valve -15-135 psi

CONTROLLER



21322

KE2 TEMP + AIR DEFROST

Part No.	Description
21322	KE2 TEMP CONTROL PLUS DEFROST 10FT TEMP SENSOR with Air Defrost Kit



21543

CONDENSER FAN CONTROL

The KE2 Condenser Fan Control allows control of up to 14 fans on one or two separate interlaced circuits sharing a common condenser. Fans can be fixed speed ECM, PSC, or variable speed ECM. The onboard 0-10Vdc output can be used for controlling ECM fan speed, or to a VFD for standard three-phase fan motors. The controller will manage the fans to one of five control modes: fixed head pressure, subcooling, saturation temp to ambient air temp differential, condenser liquid temp to ambient air temp differential, or condenser inlet temp to condenser outlet temp differential for each circuit.

Part No.	Description
21543	Condenser Fan Control
21387	Basic Display with 5FT Cable
20712	Pressure Transducer 0 To 500 Psig 40' Lead
20199	Temperature Sensor, NTC, 10ft
20200	Temperature Sensor, NTC, 40ft
21374	Replacement for the KE2 Evap OEM LLS relay, as well as relays 1 & 2 on the KE2 Condenser Fan Control / KE2 Comp. Seq. OEM.



21066

EVAPORATOR EFFICIENCY

Energy saving controller for low & medium temp refrigeration applications with built-in remote monitoring & diagnostics capability. For new or existing equipment. Serves the function of multiple components: replaces thermostat, fan delay, defrost time clock & termination device. Able to drive an electric expansion valve (EEV) for increased energy efficiency, temperature control, and monitoring, however, works with mechanical TEV as well. Includes unique energy saving demand defrost algorithm based on the efficiency of the evaporator, third party verified to provide 20%+ energy savings.

Part No.	Description
21066	Temperature Sensor, 3-pack. yellow, green blue 40 ft lead
20201KE2	Pressure Transducer, 0-150 psia, 10ft lead
20204	Pressure Transducer, 0-150 psia, 40ft lead
20844	Evaporator efficiency controller Kit
21151	



20185

ETHERNET CABLE

Commercial /industrial temperature range CAT5e Shielded Ethernet cable. Shielding helps prevent noise interference with communications, while the expanded temperature range rating keeps the cable from becoming rigid and damaged over time.

Part No.	Description
20185	Cat5e Shielded Ethernet Cable with connectors, 50ft



22041

SERVICE TOOL APP

Access controller webpages with your smart device, even if they are not internet connected. Simply connect to the same network as the controller; the app will then quickly discover and display all KE2 Therm controllers on the network & any wireless sensors in range. Or, use the KE2 Service Tool App Kit to plug your smart device directly into a single controller.

Part No.	Description
22041	Service Tool App Kit Apple-Lightning
22042KE2	Service Tool App Kit (Android/Apple-Usb-C)

CONTROLLER



20894

KE2 CONTROLLED ENVIRONMENT

The KE2 Controlled Environment manages the temperature and humidity of sensitive product inventory. By maintaining both temperature and humidity, the KE2 Controlled Environment preserves product integrity, reduces spoilage and prevents shrinkage. Temperature is maintained precisely, providing the ideal product environment for the application. In addition to food storage for vegetables, fruits, and meats, the KE2 Controlled Environment is ideal for conditioned spaces such as ripening rooms, clean rooms, document storage, meat curing rooms, tobacco storage, wine and more.

Part No.	Description
20894	KE2 Controlled environment temperature and humidity controller



21301

KE2 TEMP + VALVE CONTROL

Like the KE2 Temp, the KE2 Temp + Valve Control replaces a thermostat and a defrost time clock in air defrost applications, simplifying your installation. In addition, the KE2 Temp + Valve drives an electronic expansion valve, electronic evaporator pressure regulating valve or an electronic hot gas bypass valve.

Part No.	Description	Connection Size (In)	Lead Length (ft)
21301	KE2 Temperature + Valve Control Kit	3/8 x 1/2	10
21744	KE2 Temperature + Valve Control Refrofit kit	3/8 x 1/2	10
21745	KE2 Temperature + Valve Control Refrofit kit	3/8 x 1/2	10
21393	KE2 Temperature + Valve Control	3/8 x 1/2	10



22051KE2

EVAPORATOR EFFICIENCY CONTROLLER

The KE2 Evap Supermarket Retrofit kit (21096KE2) is a complete package for upgrading walk-ins, and refrigerated rooms, to improve the operating environment. It is proven to reduce or eliminate icing issues, provides remote monitoring and control, and is third party verified as an energy saving controller. The kit includes: Evap controller (20178), mounting box (20687), wire harness (20687), Ethernet adaptor kit (20938) and door switch (20543).

Part No.	Description
22051KE2	Replacement Apple Lightning Dongle
22052	Replacement Android/Apple Usb-C Dongle
20178	Evaporator efficiency controller
20687	Mounting Box
20736	Wire Harness
20938	Ethernet Adapter Kit



20611KE2

TEMPERATURE CONTROL + DEFROST

The KE2 Temp's robust design provides versatility to a wide range of medium and low temperature applications. When applied to medium temperature applications of 37°F and higher, the built-in defrost clock may be used to perform time-initiated and time-terminated defrost cycles. The controller's single-pole-double-throw relay controls the refrigeration and defrost cycles. To eliminate unnecessary service calls, the KE2 Temp + Defrost alerts the user when it is coming out of a defrost cycle using the onboard display. The space temperature sensor is supplied with a 10 ft. lead, and functions to control the space temperature of the room.

- Thermostat
- Off time defrost on schedule or custom defrost
- Compressor protection - maximum starts per hour
- Manual defrost
- 1st defrost 2 hours after start-up
- Visual alarming: high temp/low temp/Sensor
- Input voltage: 120 V / 208-240 V
- Includes: relay for solenoid / compressor, 3 digit 7-segment display, 4-button user interface, modbus terminals

Part No.	Description
20611KE2	KE2 Temp + (Air) Defrost
21806	Replacement display



20903

LOW TEMPERATURE CONTROL + DEFROST

The controller is unique for its ability to control both temperature and defrost, providing your customers with precision setpoint and temperature measurement to a tenth of a degree. Able to incorporate advanced controls such as configurable digital inputs. This allows users to attach door switches and other accessories to the controller.

Features:

- Energy saving fan cycling - Title 24 compliant
- Regulates the amount of defrostheat to prevent steaming
- Optional Door Switch with all the necessary time delays
- Off time or electric defrost on pre-defined schedule or custom defrost interval
- Compressor protection - Maximum starts per hour
- Visual and Audible Alarming - High temp/Low temp/Sensors/ Door/Power Failure
- Service Call Saver - Post DefrostIndicator
- Manual defrost
- 1st defrost 2 hrs after start up

Part No.	Description
20903	KE2 low temperature plus defrost controller



21177

ADAPTIVE CONTROL WITH DEMAND DEFROST

- Combines functions of a thermostat and defrost timeclock
- Energy saving adaptive, demand defrost
- Energy saving fan cycling per Title 24
- Eliminates complexity - simplifying wiring and programming
- Digital thermostat displays to a 1/10th of a degree
- Regulates the amount of defrost heat to reduce steaming
- Service Call Saver - Post Defrost Indicator
- Optional Door Switch with all the necessary time delays
- Off time or electric defrost on pre-defined schedule or custom defrost interval
- Compressor protection - Maximum starts per hour
- Manual defrost

Part No.	Description
21177	Adaptive Control with Demand Defrost


21162

REFRIGERATION STEPPER VALVE

The KE2 Therm RSV electric expansion valve is a stepper motor actuated valve, designed for refrigeration applications. The RSV uses a unipolar stepper motor that provides high precision control. Upgrading a system with an RSV will increase system efficiency and provide the best, most consistent superheat control, and eliminate the headache of adjusting superheat.

- High precision bi-directional control
- 4-phase, 8-beat, 20 pole unipolar stepper motor
- Neodymium-iron-boron magnet rotor
- 500 steps for high resolution control
- 30 to 90 per second step rate
- External, replaceable coil

Part No.	Description	Connection Size (In)	Lead Length (ft)
21161	Refrigeration Stepper Valve RSV-130	3/8 - 1/2 ODF	10
21162	Refrigeration Stepper Valve RSV-130	3/8 - 1/2 ODF	40
21163	Refrigeration Stepper ValveRSV-220	3/8 - 1/2 ODF	10
21164	Refrigeration Stepper Valve RSV-220	3/8 - 1/2 ODF	40
21165	Refrigeration Stepper Valve RSV-320	3/8 - 1/2 ODF	10
21529	Refrigeration Stepper Valve RSV-400	5/8 x 7/8 ODF	15
21594	Refrigeration Stepper Valve RSV-550	5/8 x 7/8 ODF	15
21779	Refrigeration Stepper Valve RSV-650	5/8 x 7/8 ODF	15
21149	RSV-C10 Stator replacement for RSV-100 to 320	3/8 x 1/2	10
21525	RSV-LC15 Stator replacement for RSV-400 to 650	5/8 x 7/8	15

HUSSMANN



3176660

FAN ASSEMBLY

Fan motor, blade and mounting support brackets (where applicable) assembled to save you time and headaches transferring from old motor.

HUSSMANN

Part No.	Description
3176660	Ecm Motor Blade And Bracket Assy 8" 120V 650 Rpm Cw Rotation
3176662	Ecm Motor Blade And Bracket Assy 8" 120V 850 Rpm Cw Rotation
3176663	Ecm Motor Blade And Bracket Assy 8" 120V 1020 Rpm Cw Rotation
3176664	Ecm Motor Blade And Bracket Assy 8" 120V 1210 Rpm Cw Rotation
3176665	Ecm Motor Blade And Bracket Assy 8" 120V 1510 Rpm Cw Rotation
3176666	Ecm Motor Blade And Bracket Assy 8" 120V 1610 Rpm Cw Rotation
3176667	Ecm Motor Blade And Bracket Assy 8" 120V 1810 Rpm Cw Rotation



0047000

MOTOR

Easily replace failing motors with Hussmann OEM motors that include:

- OEM harness compatible plugs to eliminate wiring headaches
- Bolt hole alignments matching OEM specifications to ensure product fit and trouble free installs

HUSSMANN

Part No.	Description
0047000*	ECM Fan Motor, 12 Watt
11513*	Motor 1/4 HP



0342598

RELAY

Hussmann OEM components are carefully designed, engineered, manufactured and tested to perform to the precise operating requirements for each Hussmann model.

HUSSMANN

Part No.	Description
0342598*	SPDT Relay
0342599*	SPST Relay



0315470

FAN BLADE

OEM blades are engineered and tested to provide optimal air flow for peak case performance

HUSSMANN

Part No.	Description
0315470*	Fan Blade 8 CW 36 PLASTIC
0461805*	Fan Blade 8.25 CW GAL 25



0386951

EVAPORATOR COIL

HUSSMANN

Part No.	Description
0386951*	Heatcraft Coil 30 Pass - 5
0498770*	COIL 36P 2C 3FPI X 42.5
0498772*	COIL 44P 2C 3FPI X 42.5
0498774*	COIL 52P 2C 3FPI X 42.5
0498777*	COIL 60P 2C 3FPI X 42.5
0498780*	COIL 60P 2C 4.5FPI X 42.5
0498784*	COIL 20P 1C 3FPI X 42.5 COATED A
0498782*	COIL 24P 1C 3FPI X 42.5 COATED

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



0461814

THERMOSTAT

Hussmann OEM components are carefully designed, engineered, manufactured and tested to perform to the precise operating requirements for each Hussmann model.

HUSSMANN

Part No.	Description
0461814*	Disc Type Thermostat
0338130*	Disc Type Thermostat
0474033*	Defrost Termination Thermostat
0344662*	Heater Limit Thermostat
0469138	2" Thermostat Dial
3180523	Drain Pan Heater Safety Klixon W/ Connectory
3180700	Analog 2" Round White W/ Mounting Bracket 24" Capillary



0403867

THERMOSTATIC EXPANSION VALVE

Hussmann valves are manufactured and tested to keep the equipment running like new.

HUSSMANN

Part No.	Description
0403867*	Thermostatic Expansion Valve



6900300000

HEATER

Hussmann defrost and drain pan perform to precise OEM operating specifications for each Hussmann model. Each is designed to fit correctly with color coded wires and correct length wires for straightforward uncomplicated installation.

HUSSMANN

Part No.	Description
6900300000*	Coil Heater, 265 Volt
19S681*	Defrost Heater, 208 Volt
0387037*	Drain Pan Heater, 3 Door
0387038*	Drain Pan Heater, 4 Door
0387039*	Drain Pan Heater, 5 Door
0322013*	Condensate Pan Heater, 230 Volt
0486046*	Heater Drip, 208 Volt
0487482*	Coil Heater, 208 Volt
1802355*	Frame Heater, 120 Volt
1802356*	Frame Heater, 120 Volt
0428604*	Frame Heater, 120 Volt



0539829

BALLAST AND POWER SUPPLY

OEM ballast and power supplies fit cases correctly with color coded wiring and plugs (where applicable) for quicker installation and reduced labor costs.

HUSSMANN

Part No.	Description
0539829*	T8 Ballast 3 Lamp 120-277V
0539830*	T8 Ballast 4 Lamp 120-277V



0522314

REPLACEMENT PARTS

HUSSMANN

Part No.	Description
0522314*	Innovator Door 1 LH Black
0522315*	Innovator Door 1 RH Black
0522316*	Innovator Door 1 LH Gray
0506496	Pan Display Black
0523762	Clip Shelf Magnet Led
0416440*	indoor rear Service Door

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

KRACK



E206880

MOTOR

Easily replace failing motors with Krack OEM motors that include:

- OEM harness compatible plugs to eliminate wiring headaches
- Bolt hole alignments matching OEM specifications to ensure product fit and trouble free installs

Part No.	Description
E206880*	Motor, 1/2 HP
E205492*	Motor, 1-1/2 HP
E151976*	Motor, 1-1/2 HP
E205109*	PSC Motor, 1/28 HP
E201949*	PSC Motor, 1/28 HP
E206448*	PSC Motor, 0.05 HP
E206447*	PSC Motor, 0.06 HP



E280793

MOTOR ACCESSORIES

Part No.	Description
E280793*	Motor Bracket
E316578*	Motor Mount
E102010*	Motor Mount Bracket, Steel
800340*	Motor Ring 56 FRAME LEV-SM



112650

FAN BLADE

OEM blades are engineered and tested to provide optimal air flow for peak case performance

Part No.	Description
112650	Fan Blade 10" 41Deg 5/16" Bore, Ccw
E316580*	Fan Blade 12" 24 Deg
E205493*	Fan Blade 30" 24 Deg 5/8" Bore, Cw
112730*	Fan Blade 30" 28 Deg 5/8" Bore, Cw
E208058*	Fan Blade 30" Revcor ZS3003-34



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



CONV32

TEMPERATURE CONTROLS

The CONV32 is used to connect to Sitrad Pro of up to 32 instruments with serial connection. It performs the communication between the controllers and the computer, by means of converting RS-485 signals from the controllers. The CONV32 is connected to the computer or Sitrad InBox by an USB cable.

RANCO

Part No.	Description
CONV32	Full Gauge Serial Interface To Sitrad Pro



MT512E2HP

DIGITAL CONTROLLER AND INDICATOR WITH NATURAL DEFROST THROUGH COMPRESSOR SHUTDOWN

- One controller to stock for both 115/230V applications
- Heavy-duty 2HP rated relay
- Temperature sensor included - no need to purchase separately
- Versatile for both cooling and heating applications
- Prevents tampering in public locations ie grocery stores
- Easy programming
- IP65 front protection level
- R290, R600A compliant
- Function lock
- Manual defrost
- Control functions shutdown

RANCO

Part No.	Description
MT512E2HP	Full Gauge Digital Cntrl Med-High Temp 120/240V
MT512ELOG	Full Gauge Digital Cntrl Med-High Temp 120/240V



TC900E2HP

DIGITAL CONTROLLER FOR REFRIGERATION AND DEFROST

TC-900E-2HP and TC-900E-LOG

- Adaptive defrost capable for energy savings
- Adaptive defrost can be less harsh on inventories eliminating unneeded defrost cycles
- Fast freezing better protects inventories
- TC-900E-LOG only - Sitrad® App based software for remote operation and monitoring.
- TC-900E-LOG only - Log data for temperature compliance

RANCO

Part No.	Description
TC900E2HP	Full Gauge Digital Cntrl Low Temp 120/240V
TC900ELOG	Full Gauge Digital Cntrl Low Temp 120/240V



NOTES

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov








FLUKE · Fieldpiece · NRP GlobeSafe · Supco · INFICON · CPS · IRP International Refrigeration Products · WEISS INSTRUMENTS · Dwyer

NRP NATIONAL REFRIGERATION PRODUCTS · KLEIN TOOLS · JB · testo · YELLOW JACKET · Imperial · Malco · Milwaukee · UNIWELD

Instruments **Page**

- Electrical Tester 970-976
- Electrical Tester Accessories 977-979
- Temperature Tester 979-984
- Temperature Tester Accessories 984-987
- Temperature Humidity Analyzer 987-988
- Thermometer 988-990
- Remote Dial Vapor Thermometer 990-991
- Motor Tester 991
- Data Recorder 991-992
- Distance 992
- Temperature Alarm 993
- Water Alarm 993
- Door Alarm 994
- Charging Scale 994-996
- Electronic Leak Detector 996-999
- UV Leak Detector 999-1001
- Combustion Analyzer 1001-1002
- Carbon Monoxide Tester 1002-1003
- Gas/Air Flow Testing 1003-1006
- Tube Manometer 1006-1007
- RPM Meter 1007
- Pressure Gauge 1007-1008

Recovery

- 1009-1010

Charging

- Recovery Cylinder 1011
- Vacuum Pump 1012-1015
- Vacuum Accessory 1016
- Vacuum Gauge 1016-1017
- Manifold 1018-1024
- Gauge 1024-1025
- Ammonia 1025-1026
- Automotive 1026-1027
- Hose 1027-1029
- Heavy Duty Charging/Vacuum Hose 1029-1030
- Hose Accessories 1031-1032
- Valves 1032-1035
- Couplers 1035-1036
- A/C Service Tool Kit 1036
- Quick Charger 1036

Tubing Tool

- Tubing Tool 1037-1044

Hand Tools

- Screwdriver 1045-1050
- Nut Driver 1050-1052
- Hex 1052-1055
- Plier 1056-1057
- Cutter 1058

Hand Tools

- Wire Stripper/Crimper/Cutter 1058-1060
- Wrench 1060-1065
- Tool Sets 1065-1066
- Knife, Saw 1066-1068
- Awl, Point 1068-1069
- File 1069
- Stapler-Riveter 1069
- Rule 1070
- Safety 1070-1075
- Tote 1075-1081
- Storage 1082
- MODBox 969, 1082-1085
- Scale 1085
- Spill Response 1085-1086
- Mirror 1086-1087
- Light 1087-1093
- Brush 1093-1095
- Rope 1095

Tools

- Lubrication 1096-1097
- Sheet Metal Tool 1097-1099
- Duct Board Tool 1100
- Machine Tool 1101-1107
- Load Security 1107-1108

Flame Tools

- 1109-1124

Industrial Gas

- 1125

Brazing

- 1126-1129

Hardware

- 1130-1135

Tape

- 1136-1140

Miscellaneous

- Insulation 1141
- Hand Cleaner 1141
- Rooftop Umbrella 1141
- Water Hose Fitting 1141-1142
- Heat Gun 1142
- Material Transport 1142-1143
- Marking 1143
- Shop Vac 1143
- Fan 1144
- Fire Extinguisher 1144
- Folding Cart 1144

ELECTRICAL TESTER



FLUKE1587FC

FLUKE CONNECT™, DIGITAL INSULATION MULTIMETER, WIRELESS

Combines a digital insulation tester with a full-featured, true-rms digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

- Live circuit detection prevents insulation test if voltage >30 V is detected for added user protection
- VFD low-pass filter for accurate motor drive measurements
- Auto-discharge of capacitive voltage for added user protection
- Insulation test: 0.01 M? to 2 G?
- Insulation test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V
- AC/DC voltage, DC millivolts, AC/DC milliamps, resistance (?), continuity, capacitance, diode test, temperature, Min/Max, frequency (Hz)
- Auto power off to save battery power
- Rugged, utility hard case allows you to bring everything you need for the job

FLUKE

Part No.	Includes
FLUKE1587FC	1587 FC Insulation Multimeter, Remote probe, Test leads, Alligator clips, K-type thermocouple, Soft case, User documentation



FLUKE83-5

DIGITAL MULTIMETER, 80 SERIES

Fluke's 80 Series DMMs provide 11 functions for electronic and industrial applications, including high performance DC/AC voltage and current measurement, frequency, duty cycle, resistance,conductance, continuity, diode test, and capacitance measurement.

- Peak min./max. recording mode
- Touch hold mode
- IEC standards: CAT III 1000V, CAT IV 600V

FLUKE

Part No.	Includes
FLUKE83-5	83 V Digital Multimeter, (1 pair) TL75 Test Leads, (1 pair) AC175 Alligator Clips, Holster, 9V Battery (Installed), Quick reference guide
FLUKE87V	87V Industrial Multimeter, TL75 Test Leads (TL175 Eur), AC175 Alligator Clips, Holster with tilt-leg, test lead storage, 80BK Temperature Probe, 9V Battery (Installed)



FLUKE177

DIGITAL MULTIMETER, 170 SERIES

Built tough inside and out, the 170 Series has overvoltage protection to guard against voltage transients. A tapered design and large screen with extra large digits make the 170 Series comfortable and easy to read in even the most difficult situations. Plus, the rugged overmolded case offers constant protection no matter how much the 170 Series is thrown around.

- Lifetime warranty
- IEC standards: CAT III 1000V, CAT IV 600V

FLUKE

Part No.	Resistance (Ohm)	Includes
FLUKE177	50	177 Digital Mutlimeter, (1 pair) Test leads, 9V Battery (Installed), Quick reference guide
FLUKE179[1]	50	179 Digital Multimeter, 80BK Temperature Probe, Installed 9V battery, Test leads, Quick Reference Guide

[1] Includes premium test lead set



FLK3000FC

FLUKE CONNECT™, DIGITAL MULTIMETER, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings from safe distances, and get your job done easier than ever before.

- Wireless technology allows connectivity between your phone, PC, and all Fluke Connect™ enabled test tools
- Let your team see what you see in an instant with ShareLive™ video call
- Isolate intermittent events or record signal fluctuations without even being there using the log function on the meters
- Capture readings at different intervals, with user-set recording intervals from one second to one hour Convenience
- See multiple measurements on one screen at one time
- Capture up to 65,000 sets of min/max/avg readings over single or multiple logging sessions using the recording capability. Each reading and session is time stamped
- View up to 6 live readings at once on the Fluke Connect™ mobile app or a PC to get a complete understanding of the situation
- Battery life: 250 hours minimum

FLUKE

Part No.	Includes
FLK3000FC	3000 FC True-RMS Wireless Multimeter, (1 pair) TL175 Test Leads, (1 pair) AC175 Alligator Clips, Quick reference guide



FLUKE116

DIGITAL MULTIMETER, 110 SERIES

Designed to support first level electrical and electronic troubleshooting. All meters offer ac and dc volts, ohms, capacitance diode test, continuity beeper, easy-to-read digital display, autoranging, and sleep mode to preserve battery life.

- The Fluke116 is protected to Category III 600V with transient overvoltage protection to 6 kV
- Three year warranty

Part No.	Resistance (Ohm)	Includes
FLUKE116	0.9 % + 1	116 Digital Multimeter, (1 pair) 4 mm silicone test lead set, 80BK Integrated Temperature probe, Holster, Installed 9 V battery, Quick reference guide



FLUKE116/323

HVAC COMBO KIT

Fluke 116 Digital Multimeter. Designed by Electricians. Engineered by Fluke.

- Built-in thermometer for HVAC applications
- Microamps to test flame sensors
- Low input impedance: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- Resistance, continuity, frequency and capacitance
- Min/Max/Average with elapsed time to record signal fluctuations
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger (ToolPak™)
- CAT III 600 V safety rated

Fluke 323 True-rms Clamp Meter. Rugged. Reliable. Precise.

- 400 A AC current measurement
- 600 VAC and DC voltage measurement
- True RMS AC voltage and current for accurate measurements on non-linear signals
- Resistance measurement up to 40 kΩ with continuity detection
- Slim, ergonomic design
- CAT IV 300 V/CAT III 600 V safety rating

Part No.	Includes
FLUKE116/323	116 Multimeter with temperature, 323 True RMS clamp meter, TL175 hard point test lead set, ToolPak magnetic meter hanger, Flexible cuff pipe clamp thermocouple, 80BK temperature probe, 80AK-A thermocouple adapter, C115 deluxe soft carrying case, One 9 V and two AA batteries



FLUKE116/62MAX+

TECHNICIAN COMBO KIT

Fluke 62 MAX+ Infrared Thermometer

- Measure -30 °C to 650 °C (-22 °F to 1202 °F)
- Extremely accurate: up to +1.0 °C or + 1.0% of reaching (Fluke 62 MAX+)
- IP54 rating for water resistance and dust proof allow you to work rain or shine and even in the most dirty or dusty industrial sites
- Strong enough to withstand a 3m drop. No worry even if you work from a ladder
- Small and lightweight; clips to your tool belt or belt loop or easily fits into your tool box
- Dual lasers: The 62 MAX+ has dual lasers to help you identify area to be measured

Part No.	Includes
FLUKE116/62MAX+	116 Multimeter with Temperature, 62MAX+ Infrared Thermometer, TL175 hard point test lead set, ToolPak magnetic meter hanger, Flexible cuff pipe clamp thermocouple, 80PK-11 Velcro Pipe Clamp thermocouple, 80BK temperature probe 80AK-A thermocouple adapter, C115 deluxe soft carrying case, Batteries



FLK3000FCHVAC

FLUKE CONNECT™, HVAC SYSTEM SERVICE KIT, WIRELESS

The Fluke FC Wireless HVAC System lets you work on electrical panels faster, safer, easier with remote current and temperature modules

Connect your FC AC Wireless Current Clamp Module to your test point, and view the results up to 20 meters away on the FC Wireless Digital Multimeter. Plus, you can connect the t3000 FC Wireless K-Type wireless temperature module and view remote temperature measurements.

Part No.	Includes
FLK3000FCHVAC	FLK3000FC Series Wireless Multimeter, FLKA3000FC Wireless AC Current Clamp Module, FLKT3000FC Thermocouple Thermometer, TL175 Test Leads, AC175 Alligator Clips, 80PK1 K-Type Bead Thermocouple, Magnetic hanging strap

ELECTRICAL TESTER


HS36

DIGITAL MULTIMETER

Just snap the head onto meter or use the deluxe silicone leads for remote connection.

- Non-contact voltage
- Loud beeper and bright LED indicate the NCV tab is near AC voltages down to 24V AC
- Auto-ranging
- Automatically changes range for best resolution
- Temperature
- Thermocouple plugs in directly for accurate readings, even in fast changing environments
- Microamps for flame rectifier diode tests
- Capacitance for motor-run and motor-start capacitors
- Frequency for variable frequency drives

Part No.	Includes
HS36	Multimeter, One pair test leads, one pair alligator clips, k-type thermocouple, 9V battery (installed), and operating instructions


LT17A

DIGITAL MULTIMETER

This manual ranger covers the parameters and ranges you need for most HVACR applications. The LT17A meter measures current, resistance, voltage, capacitance, frequency, continuity, and temperature. Test leads store in the meter body and, with the probe tips removed, connect to any Fieldpiece accessory head. The body is made out of durable ABS plastic and comes with a bright blue backlight for poorly lit test areas. Get great accuracy using the included k-type thermocouple and an easily accessible temperature calibration pot.

Part No.	Includes
LT17A	Classic Style Clamp Meter with Temperature LT17A, Deluxe Silicone Test Leads ADLS2, 400A Amp Clamp Accessory ACH4, Wrap Tab Bead Tip Thermocouple ATB1, Short Alligator Lead Extensions ASA2, Mail Pouch-Style Instrument Case ANC5, 9-Volt Battery (installed), Operator's Manual


FLKA3000FC

FLUKE CONNECT™, AC CURRENT CLAMP MODULE, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings from safe distances, and get your job done easier than ever before.

The FLKA300FC has all the essentials for convenient test and measurement troubleshooting:

- True-RMS AC clamp meter
- Use as a standalone meter or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Inrush function
- Battery life: 400 hours

Part No.	Includes
FLKA3000FC	A3000 FC True-RMS AC Clamp Meter, Quick Reference Guide
FLKA3001FC	A3001 Flexible Current Clamp Meter, iFlex i2500-10 Flexible Current Probe, Quick Reference Guide


FLUKE902FC

FLUKE CONNECT™ DIGITAL HVAC CLAMP MULTIMETER, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings from safe distances, and get your job done easier than ever before.

- Capture and trend measurements safely from outside the arc blast zone and easily create and send reports from the field with Fluke Connect®
- 600 A ac current measurement
- Resistance measurement to 60 k?
- 600 V ac and dc voltage measurement
- Temperature measurement from 14 to 752°F
- 1000 µF capacitance measurement
- DC Current measurement to 200 µA
- True-rms voltage and current for accurate measurements on non-linear signals
- Min and max recording to capture variations automatically
- Compatible with ToolPak™ magnetic hanging strap
- CAT III 600V, CAT IV 300V safety rating

Part No.	Includes
FLUKE902FC	902 FC Clamp Meter, (1 pair) TL75 test leads, 80BK integrated DMM temperature probe, 2 AA Alkaline Batteries (Installed), Soft carrying case, Quick Reference Guide



FLUKE374FC

FLUKE CONNECT™ DIGITAL AC/DC CLAMP METER, WIRELESS

- Transmit results wirelessly via Fluke Connect® Measurements app
- Create and share reports from the field via email, or converse in real time with ShareLive™ video calls
- Log and trend measurements to pinpoint intermittent faults
- Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple or Android devices
- Capture intermittent faults while performing other tasks using the logging capabilities of the Fluke 376 FC and 375 FC
- iFlex flexible current probe expands the measurement range to 2500 A ac; provides access to large conductors in tight spaces (included with 376 FC; compatible with 375 FC and 374 FC)
- TPAK magnetic hanging strap (included with 376 FC; compatible with 375 FC and 374 FC) allows you to conveniently hang the meter while using the probes
- Integrated VFD low pass filter (Fluke 376 FC and 375 FC) for accurate motor drive measurements
- Proprietary in-rush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it
- CAT IV 600 V, CAT III 1000 V safety rating
- 3-year warranty

Part No.	Includes
FLUKE374FC	374 FC AC/DC Clamp Meter, (1 pair) TL75 test leads, Two AA Alkaline batteries (Installed), Soft carrying case, Quick Reference Guide
FLUKE375FC	375 FC AC/DC Clamp Meter, (1 pair) TL75 test leads, Two AA Alkaline batteries (Installed), Soft carrying case, Quick Reference Guide
FLUKE376FC	376 FC True-RMS Clamp Meter, 18-inch or 36-inch iFlex® Flexible Current Probe, TPAK magnetic hanging strap, TL75 Test Leads. Two AA batteries (Installed), Soft carrying case



FLUKE323

DIGITAL CLAMP MULTIMETER

The Fluke 323 clamp meter is a good basic troubleshooting tool for commercial and residential electricians. It includes True RMS measurements, optimized ergonomics, and large display for efficient troubleshooting. It's designed to perform in the toughest environments and provide noise-free, reliable results, so you can trust it to help you confidently diagnose problems almost anywhere. Use it to verify the presence of load current, AC voltage, and continuity of circuits, switches, fuses and contacts. Its slim, compact size and rugged design make it well suited for measuring current up to 400 A in tight cable compartments.

Part No.	Includes
FLUKE323	323 Clamp Meter, (1 pair) Test leads, Soft case, Quick Reference Guide
FLUKE365	365 Detachable Jaw Clamp Meter, (1 pair) TL75 test leads, Five AA Alkaline batteries (Installed), Soft carrying case, Magnetic hanging strap, Quick Reference Guide
FLUKE381	381 Remote Display Clamp Meter, (1 pair) TL75 test leads, (1 pair) AC175 alligator clips, 18-inch iFlex®flexible current probe, Soft carrying case



SC260

COMPACT CLAMP MULTIMETER

The SC260 helps you save time with the new Auto Select mode. Simply set the dial and connect your leads, the clamp meter will automatically select the appropriate measurement depending on what it detects. While the high temperature resistance allows you to move from a cold freezer to a hot rooftop and get accurate temperature measurements that lesser thermometers cannot measure properly.

Part No.	Resistance (Ohm)	Includes
SC260	40 Mega Ohm with 0.01 resolution	SC260 Meter, ADLS2 Deluxe Silicone Lead Set with Gold Plated Tips and Removable Sheath, ATB1 Wrap Tab Type K Thermocouple, Velcro Strap, 9V Battery, ANC4 Padded Case

ELECTRICAL TESTER


SC680

WIRELESS POWER CLAMP METER

The SC680 is the top of the line clamp meter with wireless functionality for the HVACR professional. Send your electrical measurements directly to the Job Link® System mobile app. Leave the meter behind a closed blower door and view the current measurement on your mobile device. The only meter you'll need for troubleshooting mini-split systems. Dual Type K temperature ports to measure entering/exiting air temperatures and measure frequency (Hz) directly with clamp jaw. Reach those cramped mini-split connectors with the included RCT2 probe tips for voltage and resistance measurements. Hang your SC680 clamp meter to any metallic surface with the heavy-duty magnet. When the job is done, store your test leads in the back case for tidy and convenient storage. See both voltage and amperage readings at the same time on the large dual display. Easily see your amperage readings no matter how you clamp around a wire with the swivel head AAC clamp.

- Measures Power (kW)
- Use on variable frequency drives (VFDs)
- True RMS & Low Pass Filter for VAC/Hz
- Test Diodes and Resistance up to 50M?
- AC/DC Amps
- Dual Temp

Part No.	Includes
SC680	SC680 Clamp Meter; RCT2 Molex Probe Tips; ADLS2 Silicone Leads; ASA2 Gator Clip Leads; (2) ATB1 Type K Thermocouples; (2) Velcro Straps; 9V Alkaline Battery; ANC7 Protectice Padded Case; Operator's Manual


SC440

DUAL DISPLAY CLAMP MULTIMETER

The mid-size essential clamp meter has virtually every parameter for electrical and thermal HVACR testing in one meter. This auto and manual ranger includes a host of safety features including a high-voltage LED and beeper, a continuity warning, push button non-contact voltage (NCV), a lead holder with detachable leads, and alligator probe tips for easy one-handed testing. As far as ranges go, it has temperature, capacitance, microamps DC for flame diode tests, and everyday electrical ranges for HVACR. Not to mention it is one of the most durable meters in the industry.

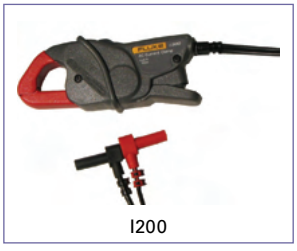
Part No.	Includes
SC440	SC440 Meter, ADLS2 Deluxe Silicone Lead Set with Gold Plated Tips and Removable Sheath, ATB1 Wrap Tab Type K Thermocouple, ASA2 Short Alligator Lead Extensions, Velcro Strap, 9V Battery, ANC12 Padded Case


SC640

SWIVEL HEAD CLAMP MULTIMETER

The SC640 clamp meter is packed with more features and measurements than any clamp meter in the HVACR industry. The loaded SC640 features lead storage, a swivel head, test lead holder, heavy duty magnetic strap, jaw flashlight, and a backlight on the dial so you can easily choose the right measurement in poorly lit spaces. Plus the SC640 hosts all the electrical measurements HVACR pros use everyday, along with features like True RMS, Inrush current, capacitance, temperature, duty cycle, and microamps DC.

Part No.	Includes
SC640	SC640 Meter, ADLS2 Deluxe Silicone Lead Set with Gold Plated Tips and Removable Sheath, ATB1 Wrap Tab Type K Thermocouple, ASA2 Short Alligator Lead Extensions, Velcro Strap, 9V Battery, ANC7 Padded Case


I200

CURRENT CLAMP ADAPTER

- Meter output: 1 mA/Amp
- Use I200 on Fluke 20 Series meters, Fluke 73
- I400 and 80I600 on Fluke 20 Series, 70 (except 70), 80 Series
- IEC standards: CAT III 600V, CAT IV 600V (I400 only)

Part No.	Includes
I200	Clamp, shrouded banana plugs
I400	Clamp


M500

INSULATION/MEGOHM METER

Specifically designed as an inexpensive alternative to costly taut band (swing needle) megohmmeters. Will accurately measure insulation values up to 1000 megohms at 500 Vac and also indicate the condition of insulation on the zone scale.

- Batteries: (2) C size 1.5 volt (not included)

Part No.	Includes
M500*	Meogohmmeter

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


ET600

INSULATION RESISTANCE TESTER

- Voltage Tester tests insulation resistance up to 4000M? at 125V, 250V, 500V, and 1000V DC
- Megohmmeter with test and lock buttons for simple insulation testing
- Warning alarm and high voltage icon for detection of voltage
- Measures up to 1000V AC/DC, low resistance, and continuity
- Automatic ranging True Root Mean Square (TRMS) technology for increased accuracy
- Backlit display with bar graph, Auto-power off, High Voltage, Max/Min, and Hold icons
- Low battery indicator with easily replaceable battery and fuse
- Built-in stand and optional magnetic hanger for hands free operation
- Test verification of conformity to EN61557-1,-2,-4
- CAT IV 600V and CAT III 1000V safety rating
- Includes Right Angle Test Leads and Heavy-Duty Alligator Clip Test Leads

KLEIN TOOLS

Part No.	Includes
ET600	CAT III/CAT IV Safety Rated Test Leads, Heavy-duty Alligator Clip Test Leads, Batteries, Carrying Case, and Instruction Manual


T6600

POCKET MULTIMETER WITH FIELDSENSE TECHNOLOGY

Measure voltage through the open fork, without test lead contact to live voltage. Without opening covers or removing wire nuts. On wires up to AWG 4/0 (120 mm), carrying as much as 200 A.

- FieldSense technology for ac voltage, current and frequency measurement without making electrical contact to live voltage
- Simultaneous voltage and current display (T61000)
- 0.1 to 200 A ac
- Frequency measurement 45 Hz to 66 Hz (T61000)

FLUKE

Part No.	Resistance (Ohm)	Includes
T6600	1 to 2	T6-600 Electrical Tester, Attached test leads with removable 4 mm probe caps, Quick Reference Guide


FLK2AC

NON-CONTACT VOLTAGE TESTER

The 2AC tests for energized circuits and defective grounds, whether it's for an electrician on the factory floor or the do-it-yourselfer around the house.

- Pocket sized and easy to use
- Tip glows red when within close proximity of an outlet, terminal strip or power cord where voltage is present.
- CAT IV 1000 V overvoltage rated product for best in class user protection
- Suitable for a wide range of residential, commercial and industrial needs
- Fluke ruggedness and reliability with a two-year warranty

FLUKE

Part No.	Range (Vac)	Includes
FLK2AC	90 to 1000	Tester


NCVT4IR

NON-CONTACT VOLTAGE TESTER WITH INFRARED THERMOMETER

- Designed specifically for HVAC applications
- Provides non-contact determination of AC voltage in cables, cords, circuit breakers, switches, outlets and wires, as well as AC voltage in security, entertainment, communications, environmental control, and irrigation systems
- Detects AC voltage from 12 to 1000V with visual and audible indicators
- 4 :1 distance-to-spot ratio IR thermometer with user selectable Degrees Fahrenheit or Degrees Celcius from -22 to 482 - Degree Fahrenheit (-30 to 250-Degree Celcius)
- Convenient laser pointer to target measurement area for temperature measurement
- Backlit LCD display with 0.1-Degree resolution
- Auto power-off conserves and extends battery life
- Screw-thread battery cap with O-ring ensures dust and water resistance
- Lightweight, compact tool with pocket clip provides easy storage and quick access

KLEIN TOOLS

Part No.	Range (Vac)	Includes
NCVT4IR	12 to 1000	NCVT, Batteries

ELECTRICAL TESTER



FLUKE1LACAII

AC VOLTAGE TESTER

- Detects voltage without metal contact
- FLUKE1ACA1II now has category IV safety rating and a 2 year manufacturer's warranty

FLUKE®

Part No.	Range (Vac)	Includes
FLUKE1LACAII	24 to 90	Voltage tester
FLUKE1ACA1II	90 to 1000	Voltage tester



ACH4

CURRENT CLAMP

ACH4 measures to 400 AAC.

- Current range: 1A to 400A rms
- Accuracy: ±1.5%rdg + 1 dgt.
- Maximum conductor size: 0.91" (23mm)
- Use with EHDL1 handle or HS35 multimeter

Fieldpiece

Part No.	Includes
ACH4	400A Amp Clamp Accessory ACH4, Operator's Manual



T+PRO

AC VOLTAGE TESTER

- 3 forms of AC/DC voltage detection: light, sound and vibration for added user protection and convenience
- Detects line voltage even when the battery is dead
- Bright LED flashlight for work in poorly lit areas
- Backlit LCD display for easier viewing
- GFCI trip
- Displays resolution of 0.1 V, ideal for troubleshooting low voltage lighting
- Resistance to 9.99 k?
- AC voltage accuracy: ± (3% rdg + 2 digits)
- DC voltage accuracy: ± (2% rdg + 2 digits)
- Resistance accuracy: ± (5% rdg + 3 digits)
- 2 year warranty
- CAT IV 600 V, CAT III 1000 V

FLUKE®

Part No.	Range (Vac)	Includes
T+PRO	240 to 600	T+ Pro Electrical Tester, Test lead wrap, TP2 test probes, Quick Reference Guide



MFD10

CAPACITOR

- Measures the capacitance value on start and run capacitors from .01 to 10,000 MFD
- Checks for open and shorted capacitors-tells when capacitors are weak
- Use as a continuity tester
- Identifies unmarked capacitors
- Batteries required: (4) AA 1.5 Vac (not included)

Supco

Part No.	Description	Includes
MFD10	Capacitor tester, .01 to 10,000 MFD	Tester



4678571

INVERTER CHECK KIT

The inverter check kit is an invaluable tool for the analysis of problems with inverted-fed air conditioners. Designed to be used both in installation and maintenance, it can indicate correctly-operating inverter power stages, as well as the serial-link communication between the condensing unit and the indoor units. This allows the air conditioning engineer to easily identify faults and reduces the time required for analysis and repair.
Includes the electronic module with a set of leads for testing the serial communications links, and a selection of cables and connectors for the power output terminals of the inverter.

- Suitable for all sizes and manufacturer's air conditioners
- Crocodile clips, hook connectors and cable sets provided
- Shows up damage to inverter output stage
- Identifies pc-board or wiring faults on Data Link Circuits
- LED indicators show correct operation

REFCO

Part No.	Includes
4678571	Electronic module with a set of leads as well as a selection of cables.

ELECTRICAL TESTER ACCESSORIES


TP88

RIGID BACK PROBE PINS

Better than a test probe alone – these two inch long rigid back probe pins easily pass between the weather pack seal and wire. A sharp point ensures good contact to the electrical connector, and the pin's insulation protects it from shorting to other wires.

- Slides onto test probes measuring 2 mm (0.08 inches)
- Tested to 60 V DC

FLUKE®

Part No.	Description	Includes
TP88	Rigid Back 2" Probe Pins	Black and Red Probe Pins


TL175

TWISTGUARD™ TEST LEADS

- Patented TwistGuard™ extendable tip shroud that meets new electrical safety requirements to reduce tip exposure while providing the versatility needed for most measurements
- New WearGuard™ lead wire wear indicator. Each test lead is covered by two layers of silicone insulation; inner contrasting color is exposed when the leads are nicked, scuffed, or otherwise damaged and in need of replacement
- Double insulated silicone leads. TL175 withstands high temperatures and remains flexible in cold temperatures
- Extra-heavy strain relief on both probe-end and plug-end, tested beyond 30,000 bends without failure
- Universal input plugs compatible with all instruments that accept standard 4 mm shrouded banana plugs
- Probes always show correct category rating for tip exposure being used
- Ratings: CAT II 1000 V, CAT III 1000 V, CAT IV 600 V, 10 A max., Pollution Degree 2
- Environmental ratings: -4 °F to 131 °F, altitude: 6,562 ft

FLUKE®

Part No.	Includes
TL175	One pair (red, black) Fluke TL175 TwistGuard™ Test Leads, Exposed probe tip length from 19mm to 4mm (0.75 inch to 0.16 inch


TL220

SUREGRIP™ LEADS

- New design makes clips, hooks, probes more versatile
- Improved ergonomic design
- Superior gripping surface made from thermoplastic rubber
- Rated 1000V CAT III, 600V CAT IV, 10A

FLUKE®

Part No.	Includes
TL220	TL224 SureGrip Silicon Teat Lead Set, TP220 Insulated Test Probe Set, AC220 SureGrip Alligator Clip Set
TL223	AC220 SureGrip™ Alligator Clip Set, TP1 Slim-Reach™ Test Probes (Flat Bladed), TL224 SureGrip™ Silicone Test Lead Set (Straight to Right)
TL221	One pair (red, black) silicone insulated leads with straight female couplers on both ends, One-year warranty
TL222	1 - SureGrip Silicon Insulated Test Lead (Red), 1 - SureGrip Silicon Insulated Test Lead (Black)
TL224	One pair (red, black) silicone insulated leads, With one straight female coupler on one end and right angled on the other, One-year warranty, Quick Reference Guide
TP220	Suregrip™ leads, probe ends TP220 SureGrip Industrial Test Probes


TL40

TEST LEADS

- IEC standards: CAT III 1000V, 10A, CAT IV 600V, 10A

FLUKE®

Part No.	Use with	Includes
TL40	320 and 330 Series	One pair (red, black) TL40 Retractable Tip Test Lead Set
TL71	Fluke DMMs	One pair (red, black) TL71 Test Leads, Pair of protective caps (red and black)
TL75	Fluke DMMs	One pair (red, black) PVC-insulated leads with banana plug end connectors, Two protective caps, One-year warranty
TP1	T5600	One pair (red, black) TP1 Slim Reach Test Probe Set


AC220

SUREGRIP™ PROBES

- New design makes clips, hooks, probes more versatile
- Improved ergonomic design
- Superior gripping surface made from thermoplastic rubber
- Rated 1000V CAT III, 600V CAT IV, 10A

FLUKE®

Part No.	Description	Includes
AC220	Alligator Probe Clip, Pair	One pair (red, black) of small, insulated, nickel plated jaws
AC285	Alligator Clip, Pair	One pair (red, black) of large alligator clips with nickel-plated steel jaws

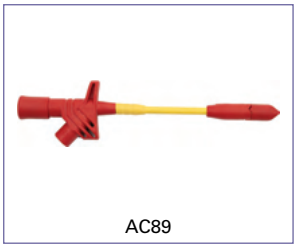
ELECTRICAL TESTER ACCESSORIES


AC175

ALLIGATOR CLIP

- Slide-on alligator clips (red, black) compatible with TL71, TL75, TL175 and TP175 (AC175)
- Insulated alligator clip jaws provide 8 mm opening with flexible boots (AC175)
- IEC standards: CAT III 1000V, CAT IV 600V

Part No.	Includes
AC175	One pair (red, black) slide-on alligator clips


AC89

TEST CLIP

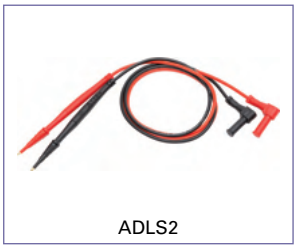
- IEC standards: CAT III 1000V, 5A, CAT IV 600V, 5A

Part No.	Includes
AC89	AC89 Heavy Duty Insulation Piercing Test Clip


ATL55

TEST LEAD

Part No.	Use with	Includes
ATL55	All DMMs, Clamps, Insulated, Industry Standard	Test Lead, Insulated Alligator Clips


ADLS2

TEST LEADS

Leads for all meters.

Part No.	Description	Includes
ADLS2	Test Lead, Separable Probe	Lead, Probe
ADK7	Test Lead Kit	ADLS2 lead set, Removable Probe Tips & Alligator Clips


RF16

FUSE

Replace blown fuses on Fieldpiece HVAC/R meter

Part No.	Description	Use with
RF16	Fuse, 0.1A/250V, pkg 4	LT16, LT17
RFM66	Fuse, 0.25A/700V, pkg 4	SC66/76/77,HS35/36,LT16A/17A


FUSE630MA

FUSE

Part No.	Description	Use with
FUSE630MA	Fuse, 630 mA, 250V, Pkg. 5	21, 23-II; 75, 77-II; 21, 73, 75-III
871202	Fuse, 3A, 600V, Pkg. 5	25, 27, 8060A, 8062A
871207	Fuse 1A, 600V, Pkg. 5	83, 85, 87 <s/n 65650001
FUSE2A	Fuse, 2A, 250V, Pkg. 5	8060A, 8062A
871223	Fuse, 15A, 600V, Pkg. 5	83, 85, 87 <s/n 65650001


FLKPC3000FC

FLUKECONNECT ADAPTER

The FLKPC3000FC includes an adapter and software to enable communication between Fluke Connect-enabled tools and a local PC. The USB adapter connects to your PC's USB port and allows for the wireless relay of real-time data from Fluke Connect modules to your PC from up to 20 meters away! The included Windows SW3000 software offers logging customization and can display readings from up to 6 modules at once.

Part No.	Includes
FLKPC3000FC	Wireless PC Adapter


A76BP

BATTERY

- High energy density
- Long life power source
- Advanced engineering and state-of-art manufacturing
- Longer life and consistently reliable performance
- High power to weight ratio
- Superior quality provides dependable power
- 7.5K ohm load capacity
- Miniature alkaline type battery

Part No.	Use with
A76BP	DM5, PDT300, DT10K, UTL7002


C25

CASE

Part No.	Description	Includes
C25	Soft, Zippered Vinyl	C25 Soft carrying case - 20, 50, 70, 80 Series in Holsters
C35	Soft, Velcro Strap	C35 Soft Carrying Case - 20, 70, 11X, 170 Series
C50	Soft Case	C50 Soft Carrying Case - 20, 50, 70 Series Without Holsters
C101	Deluxe Hard Case, w/ Diced Foam Interior	C101 Hard Carrying Case, Custom foam cavity - All Fluke Industrial Test Tools
C115	Soft Case, w/ Shoulder Strap	C115 Soft Carrying Case - 20, 70, 11X, 170 Series
H5	Holster w/ flap for lead storage & built-in belt loop, fits T3, T5 testers	Holster - T3, T5 Testers


ANC1

CASE

Part No.	Description	Includes
ANC1	4 Pockets, 1 Meter, 2 Heads	Case
ANC7	1 Pocket, Clamp Meter	Case


TPAK

TOOLPAK™

- Solves almost any hanging and positioning problem
- The universal hanger allows you to hang your meter on nails, hooks and many other objects.
- Compatible with many Fluke instruments.

Part No.	Includes
TPAK	9-inch hook and loop strap, Tapered hook and loop strap, Universal hanger clip, Hook hanger for non-magnetic surfaces, Strong magnet

TEMPERATURE TESTER


67063

YJACK DEW® PSYCHROMETER

The YELLOW JACKET® YJACK® Series provides a total HVAC/R diagnostic solution. Use the **YJACK DEW® Psychrometer** to easily and wirelessly measure temperature, humidity, wet bulb, dew point and more in ambient air or ventilation ducting using a Bluetooth® signal. The optimized sensor housing is designed for increased air exchange and better response time and with 1500 hours of extended battery life. The YJACK DEW® PSYCHROMETER is compatible with YJACK VIEW® App and P51-870 TITAN® devices.

Part No.	Includes
67063	67063 YJack Dew Wireless Psychrometer Probe, (2) AAA Batteries

TEMPERATURE TESTER


JL3RH

JOB LINK® SYSTEM PSYCHROMETER PROBE

The JL3RH Job Link® System Psychrometer Probe has a long flexible wand and strong sliding magnet for easy measurements anywhere on the system. Get instant live readings from ducts, plenums, registers, or grilles for accurate diagnostics.

- Place in critical locations based on system needs
- Requires only 3/8" hole for duct testing
- Powerful enough to go through most walk-in coolers and freezers

You can connect your psychrometers directly to both the Job Link app and the wireless SMAN™ Refrigerant Manifolds (3-port SM380V or 4-port SM480V) to see live air temperatures readings while you're making adjustments to the system. Data log results in the manifolds, or include in Job Link System reports.

Return and supply indicator switch ensures you're recording the right measurements in the correct place.

Dry bulb, wet bulb, %RH, dew point, enthalpy

Part No.	Includes
JL3RH	Job Link System Flex Psychrometer Probe, 1 Protective Slip Cover for Sensor Tip, 2 x AAA Batteries, Operator's Manual, 1 Year Limited Warranty


ET17

UTILITY BORESCOPE

- Borescope features compact 5.5mm water-resistant camera (IP67 for camera head and cable) with 720p resolution
- 4.3-Inch color LCD screen for clear viewing
- 10-Foot nylon snake navigates through twists, turns, and bends
- Includes hook, magnet, and mirror attachments to tackle wide variety of applications
- Camera is surrounded by 6 bright LED lights adjustable to 4 output levels
- Self-storing kickstand can be easily extended to free both hands for navigation
- Transfer photos and videos via USB-C interface

Part No.	Includes
ET17	Borescope, 5.5mm Camera Probe with 10' (3m) Cable, USB Cable, Camera Accessories: Magnet, Hook, Mirror, Carrying Case


JL3KR4

JOB LINK® SYSTEM PROBES CHARGE KIT

Connect two pressure probes and two pipe temperature clamps to immediately see system charge on your Job Link® System mobile app. Easily determine if unit is running properly, or if troubleshooting is needed. All measurements can be sent up to 1000' away directly your mobile device. Each tool is designed for agility and speed. The pressure probe fits into tight spaces. The pipe clamp uses a new Rapid Rail™ sensor design to deliver accuracy, speed, and agility, even on the most awkward pipe configurations.

- Directly connects to mobile device with Job Link System App
- Fast accurate temps with new Rapid Rail technology
- Pressures auto calibrate at any elevation
- Great for critically charged systems
- A2L Compatible

Part No.	Includes
JL3KR4	(2) Job Link® Pipe Temp Probes; (2) Job Link® Pressure Probes; Padded Carrying Case; (2) AAA Batteries Per Probe (8 Total)
JL3LC	Large Pipe Clamp Type K Thermocouple, Emery Cloth for Cleaning Pipes, Operator's Manual, 1-Year Limited Warranty
JL3PC	Job Link® Premium Pipe Clamp Temperature Probe, 2 x AAA Batteries, Emery Cloth for Cleaning Pipes, Operator's Manual, 1 Year Limited Warranty


JL3KH6

JOB LINK® SYSTEM CHARGE AND AIR KIT

Take a full system snapshot quickly and easily with the JL3KH6 Charge and Air Test Kit. All measurements can be sent up to 350' away directly to your mobile device with the Job Link® System mobile app. Each tool is designed for agility and speed. The pressure probes fit into tight spaces. The pipe clamps use the new Rapid Rail™ sensor design delivering accuracy, speed, and agility, even on the most awkward pipe configurations. The psychrometers' flexible narrow probes and configurable magnet make it easy to measure supply plenums, ducts, and elevated registers. Do more with Job Link probes!

Part No.	Includes
JL3KH6	2 pressure probes, 2 pipe clamps, and 2 psychrometers in a quick access padded case


IRT121B

INFRARED

Part No.	D:S Ratio	Description
IRT121B	12:1	Infrared thermometer, -58 to 122°F, 12:1


FLUKE561

INFRARED AND CONTACT THERMOMETER

FLUKE561:

- Velcro® pipe probe for superheat and sub-cooling and other contact and ambient measurements
- MIN, MAX and DIF functions help you quickly identify problems
- Response time: 500 mSec (95% of reading)
- Emissivity: adjustable with 3 settings, low (0.3), medium (0.7), high (0.95)
- Power: 2 AA batteries (alkaline or NiCD), included

FLUKE568:

- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Easily trend and analyze data with included FlukeView® Forms software Two-in-one infrared and contact thermometers with an innovative dot matrix display.
- See your data right away without leaving the site, using the USB and your laptop for Hands-free datalogging
- Response time: <500 mSec
- Emissivity: by built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01
- Power: 2 AA/LR6 batteries included

Part No.	D:S Ratio	Includes
FLUKE561	12:1	Thermometer, fabric hook-and-loop fastener
FLUKE568	50:1	Thermometer, fabric hook-and-loop fastener


FLUKE62MAX

INFRARED

- Dust and water-resistant: IP54 rated for dust and water resistance.
- Ergonomically designed, small and lightweight
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements.
- Large, backlit display
- Min/Max/Avg/Dif: Displays the minimum, maximum or average temperature, or the difference between two measurements.
- Alarm: Hi and Lo alarms for rapid display of measurements outside the limits.
- Accuracy: ±1.5°C or ±1.5% of reading, whichever is greater
- Response time: <500 ms (95% of reading)

Part No.	D:S Ratio	Includes
FLUKE62MAX	10:1	Thermometer


TI250

THERMAL IMAGER

- Thermal Imager has over 10,000 pixels to troubleshoot hot and cold spots
- Adjustable emissivity from 0.10 to 0.99
- Store and share images with optional microSD® Card (not included)
- User selectable high and low temperature alarms from -4 to 752° F
- Select color palettes to best capture the event
- Rechargeable lithium-ion battery

Part No.	Accuracy	Includes
TI250	At More Than 212°F: +/- 2° or 2% (Whichever is Greater); At Less Than 212°F: +/- 3° or 3% (Whichever is Greater)	Rechargeable Thermal Imager, Micro-USB Charging Cable, Carrying Case, and Instructions

TEMPERATURE TESTER


805I

SMART AND WIRELESS INFRARED THERMOMETER

Use the testo Smart Probes App to take photos of objects and include the laser pattern and the temperature reading for your reference. Easily adjust the emissivity within the App and store data as files or share via text or email. The testo 805i works on smart devices with either Android or Apple operating systems.

- Measures non-contact temperature
- Great for checking breakers, motors, ducts, and registers from a distance
- Optic target ratio (10:1)
- Measurement area indicated by circular laser pattern assures accurate assessments
- Photograph objects with smart device, capturing measurement marker and temperature values for reference and reporting
- Measuring range -22 to 482°F
- Resolution 0.1°F

Part No.	Includes
805I	testo 805i, Bluetooth infrared thermometer with App, 3 AAA batteries and certificate of calibration


0810

INFRARED AND AIR

Infrared thermometer, 2 channel with laser sighting and integrated NTC air thermometer

- Measure air temperature and non-contact surface temperature with one instrument; display of differential temperatures
- Infrared measurement with 1-point laser sighting and 6:1 optics ratio
- Hold function and min./max. values
- Display illumination
- Air Probe
- Resolution: 0.1°F
- Infrared Sensor
- Measurement range: -22 to +572°F
- Accuracy: ±3.6°F (-22 to +212°F); ±2% of reading (213 to 572°F)

Part No.	Includes
0810	testo 810 infrared thermometer with integrated NTC temperature sensor, including protective cap, calibration protocol, belt pouch, and batteries


05630007

SMART PROBES AC AND REFRIGERATION TEST KIT

Complete kit for all-round engineers in the field of heating, air conditioning, refrigeration and ventilation: The kit contains all the testo Smart Probes and is ideal for carrying out functional checks or for plant maintenance, in conjunction with your smartphone/tablet. The testo Smart Probes App enables you to work more easily and efficiently: Automatically calculate numerous parameters such as superheating/subcooling, target superheat, cooling/heating load, differential temperature or mold indication. Measurement data reports can be emailed directly as a PDF or Excel file

Part No.	Includes
05630007	2 x testo 549i High-pressure Refrigeration Gauges, 2 x testo 115i Pipe-clamp Thermometer, 2 x testo 605i Thermohygrometer, testo 405i thermal anemometer, testo 410i vane anemometer, testo 510i differential pressure measuring instrument. testo 805i infrared thermometer, testo 905i Compact thermometer testo HVAC softcase


115I

SMART AND WIRELESS PIPE CLAMP THERMOMETER

- Measures temperature of pipes in heating and cooling systems
- Use with testo 549i Refrigeration Pressure Probe to calculate superheat and subcooling
- Quickly identify temperature changes by monitoring real-time trending and data logging
- 115i NTC temperature sensor is more accurate and stable than thermocouples
- Measuring range -58 to 302°F
- Resolution 0.1°F

Users can read the measurements using the testo Smart Probes App installed on their smart device (Android or Apple operating systems) at distances up to 60'. The testo Smart Probes App allows you to remotely read measurements from up to 6 Smart Probes and easily document/report the results.

Part No.	Includes
115I	testo 115i, Bluetooth clamp thermometer with App, for measurements on pipes with diameters of 0.25 to maximum 1.5 in., 3 AAA batteries and certificate of calibration


FLKT3000FC

FLUKE CONNECT™, K-TYPE TEMPERATURE MODULE, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings from safe distances, and get your job done easier than ever before.

- 80PK1 K-type Bead Thermocouple
- Use as a standalone meter or as part of the system
- Logging function for recording and saving up to 65,000 readings
- Magnetic hanging strap
- Other K-type temperature probes also available
- A versatile K-type thermocouple thermometer wirelessly relays measurements to other Fluke Connect™ enabled master units

FLUKE®

Part No.	Temperature (°F)	Includes
FLKT3000FC	-328 to 2500	Temperature Module, plug


FLUKE52-2

DIGITAL THERMOMETER

- Measure K, J, T, E (52&54), N, R, S (54 only) thermocouples
- Range: J (-346°F to 2192°F), K (-328°F to 2501°F)
- Accuracy (above -148°F): ±(0.05%+.5°F)
- Three year warranty
- Time stamp: relative (52), time of day (54); Min/Max/Average
- Differential readout (T1-T2), dual inputs
- Internal data logging (500 points), IR data port (54 only)
- Download data to optional FlukeView® PC software (54 only)

FLUKE®

Part No.	Description	Includes
FLUKE52-2	Digital thermometer, dual input, use with K, J, T, E thermocouples	Digital thermometer
FLUKE54-2B	Digital thermometer, dual input, log, IR data port, noise rejection, use with K, J, T, E, N, R, S thermocouples	Digital thermometer


ST4

DUAL TEMPERATURE THERMOMETER

- Reads T1, T2, or T1-T2
- Rugged rubber boot
- Min/Max and Hold
- LED indicates disengaged probe
- Great temperature compensation for fast changing environments
- Select °F or °C
- Measurement range: -58°F to 400°F (to 2000°F with optional hi-temp thermocouple)
- Measurement rate: 2.5 readings/second
- Resolution: 0.1°

Fieldpiece

Part No.	Accuracy	Temperature (°F)	Includes
ST4	±(0.5% rdg + 2°F), 1100°F to 2000°F	-58 to 400	Dual-Temperature Meter ST4, (2) K-type Wrap Tab Bead Thermocouples ATB1, (2) Velcro Tie- wraps (not pictured), Clear Front Nylon Bag with Magnetic Hanger ANC6, 9-Volt Battery (installed), Operator's Manual


SH66A

MULTIZONE

For applications where multiple temperature measurements need to be taken simultaneously.

- Minimum/maximum memory
- Auto shut-off
- Sealed keypad
- Range: -40° to 300°F
- Accuracy: ±0.3°F or 0.5% of reading (greater value)
- Resolution: 0.1°F

Cooper ATKINS®

Part No.	Includes
SH66A*	Test Station, hard case, General purpose probe, Air probe, Surface probe, 9V alkaline battery


SRH77A

THERMOHYGROMETER

Cooper's SRH77A will report temperature and relative humidity readings.

- Minimum/maximum records highest and lowest temperatures
- Auto shut-off
- Scan mode stores data
- Includes 1075 general purpose, 4010 aluminum surface probe and 5028C humidity probe
- Monitors temperature in three zones
- Instrument range: -40° to 300°F
- Accuracy: ±0.3°F/+0.5% of reading, whichever is greater
- Resolution: 0.1°F

Cooper ATKINS®

Part No.	Includes
SRH77A*	General Purpose Probe, Surface Probe, Humidity Probe, hard carrying/storage case, 9V battery

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEMPERATURE TESTER


9056

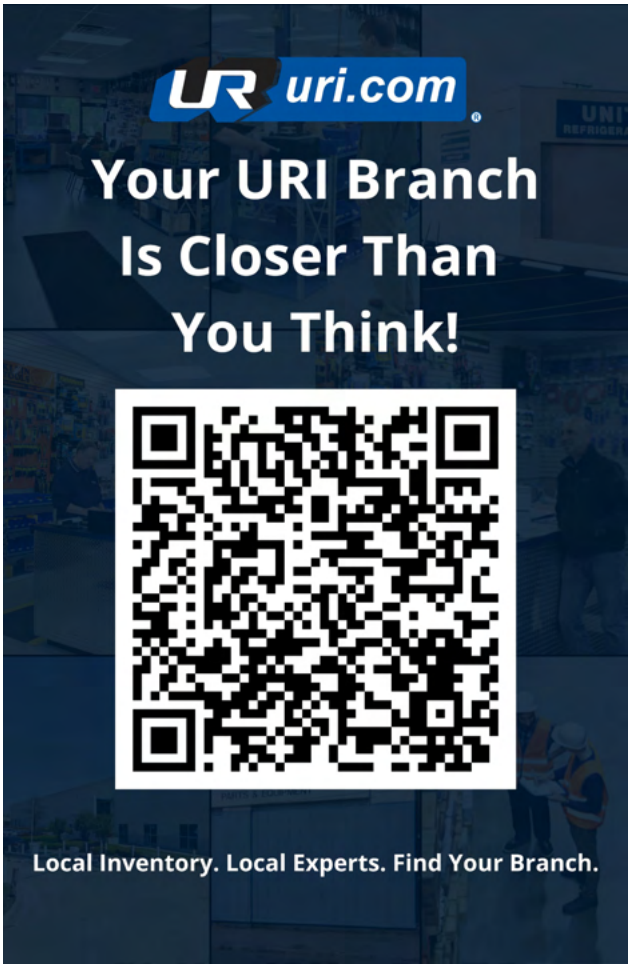
POCKET

A surface thermometer of professional quality at a reasonable price. The spring loaded thermocouple measuring head guarantees a very quick reaction time and a high accuracy level by placing the probe flat on the uneven surface of the object being measured. Includes multi-function clip, battery

- Auto OFF function
- Swivel head making display always easy to read from any angle
- Professional industrial sensor (thermocouple Type K)
- Temperature range: -58 to +662°F (max 932°F short term)
- Resolution: 1.8°F

testo

Part No.	Temperature (°F)	Includes
9056	-58 to 662;(max 932 short term)	testo 905-T2 surface thermometer with large measuring range, including attachment clip and batteries



TEMPERATURE TESTER ACCESSORIES


67060

YJACK PATH™ RANGE EXTENDER

Extend your working area and connect up to 8 devices for complete system analysis

- Connects and re-broadcasts up to (6) YJACK™ devices and (2) P51-870 TITAN® devices at one time
- Adds additional 400 ft line of sight signal range to all YJACK™ and P51-870 TITAN® devices
- Amplifies signal strength through difficult to penetrate barriers
- Use to circumvent obstructions to your Bluetooth® signal
- Create perimeter with multiple YJACK PATH™ devices for a network of connected devices
- Utilize multiple YJACK PATH™ devices to drastically increase line of sight range
- Compatible with YJACK DEW™, YJACK™ Temperature Clamp, YJACK™ Temperature Strap, and all P51-870 TITAN® devices (requires firmware version v2.0 or later)
- Compatible with the YJACK VIEW™ App
- Simple to operate, one push button start-up
- Operating Temperature: -0.4°F to 131°F
- 75 hour continuous duty battery life (2 x AAA included)
- IP52 rated
- 2-year warranty

YELLOW JACKET

Part No.	Temperature (°F)	Includes
67060	-0.4 to 131	67060 YJack Path Wireless Range Extender, (2) AAA Batteries


67062

YJACK™ TEMPERATURE STRAP

YELLOW JACKET

Part No.	Temperature (°F)	Includes
67062	-40 to 176	67062 YJack Temperature Strap Wireless Probe, (2) AAA Batteries
67061YJ	-40 to 176	67061 YJack Temperature Clamp Wireless Probe, (2) AAA Batteries


67070

YJACK™ TEMPERATURE CLAMP KIT

The YJACK® TEMPERATURE CLAMP provides wireless Bluetooth® measurements for surface temperature of pipes up to 1.25" diameter and has a flexible cable connection for easy access in small and difficult-to-reach areas. The YJACK PATH® RANGE EXTENDER connects and re-broadcasts up to six YJACK® devices and up to two P51-870 TITAN® devices at one time using a Bluetooth® signal, while providing amplified signal strength through difficult-to-penetrate barriers. Using a Bluetooth® signal, the YJACK DEW® PSYCHROMETER wirelessly measures temperature, humidity, wet bulb, dew point and more in ambient air or ventilation ducting.

YELLOW JACKET

Part No.	Includes
67070	two YJACK Temperature Clamps and one YJACK PATH
67071	two YJACK Temperature Clamps, two YJACK DEW Psychrometers and one YJACK PATH


80TK

DMM ADAPTER

- Converts a DMM to a thermometer
- Use 80TK with type K thermocouple probe (bead probe supplied) in low voltage applications (below 24 Vac, 60V dc)
- Probe dependent

FLUKE

Part No.	Description	Includes
80TK	Thermocouple Module	Thermocouple Module


80PK1

PROBE

- Type K thermocouple probe
- Use directly with F51, F52
- Use with 20, 70, 80 Series DMM with 80TK adapter
- Use with 16, 179, 180 Series with 80AK adapter

FLUKE

Part No.	Description	Temperature (°F)
80PK1	Bead Probe	-40 to 500
80PK3	Surface Probe	32 to 500
80PK-11	Velcro Probe	-22 to 221
80PK-22	Immersion Probe,Liquids and Gels	-320 to 1994
80PK24	Air Probe Except Halides, Sulfides	-40 to 1500


80BKA

INTEGRATED DMM PROBE

- Type-K thermocouple with standard shrouded banana jack
- Convenient one piece construction
- Compatible with DMMs with temperature measurement functions: 116, 87/89 IV, 87V, 187/189, 287/289, 902, 1597

FLUKE

Part No.	Description	Temperature (°F)
80BKA	Integrated DMM Temperature Probe	-40 to 260


TC48

LARGE PIPE CLAMP THERMOCOUPLE

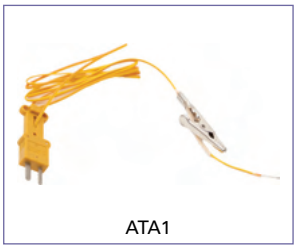
Fieldpiece patented Rapid Rail™ Sensor Technology gives you the fastest and most accurate pipe temps on the market. Our Rapid Rail advantage stabilizes in seconds and blocks out ambient air temps so you see true pipe temps instantly. Clamp it on and go with hands free measurements. Make system adjustments and see pipe temperature readings react in an instant. Throw away the straps and tape for those large pipes. Clamp on to large pipes with the compact, rugged, and versatile TC48 Pipe Clamp. Match with any measuring device with a Type K thermocouple port.

Fieldpiece

Part No.	Cable Length	Includes
TC48[1]	6 Ft	(1) TC48 Large Pipe-Clamp Thermocouple, (1) Emery Cloth for Cleaning Pipes

[1] Sensor type: K Thermocouple

TEMPERATURE TESTER ACCESSORIES

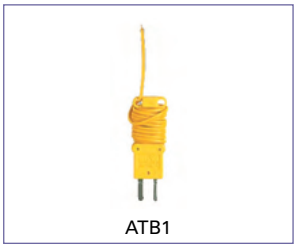

ATA1

TYPE-K THERMOCOUPLE WITH ALLIGATOR CLIP

The ATA1, Type-K thermocouple can clip to HVACR equipment for convenient placement and hands free testing. Clip to condenser fins for accurate outdoor dry bulb measurement – great for finding target superheat. Clip to evaporator filters for indoor dry bulb – great for finding target evaporator exit temperature. Clip to supply vents for dry bulb supply temperature. The ATA1 can be used with any of our meters that measure temperature and any thermometer accepting a Type-K thermocouple. HVACR technicians find the ATA1 extremely helpful when data logging or anytime an extra hand is needed. The wrap-tab allows the thermocouple wire to conveniently store on the plug. Just wrap the excess wire around the wrap-tab. No more tangled messes in your tool bag.

- Thermocouple conductors: Type-K nickel chromium/nickel aluminum.
- Probe insulation: Calibration and atmosphere will affect maximum useful temperature in applications. The wire insulation is designed to withstand a maximum continuous use at 400°F (204°C).
- Plug: Type-K thermocouple male mini plug.

Part No.	Temperature (°F)	Includes
ATA1	-50 to 400	Alligator Clip, Wire, Plug


ATB1

K-TYPE THERMOCOUPLE

Use with any meter using the K-type design. Wrap the lead wire around the tab for convenient lead storage.

Part No.	Temperature (°F)	Includes
ATB1	-50 to 400	Wire, wrap-tab, Plug


80PK8

PROBE, PIPE CLAMP

- Type K thermocouple probe

Part No.	Description	Temperature (°F)
80PK8	Pipe Clamp Probe to 1 3/8"	-20 to 300


TC24

PROBE, PIPE CLAMP

If you're working with residential and light commercial cooling systems, use the TC24 Pipe-Clamp Thermocouple to get pipe temperatures fast even if it's hot or windy outside. The TC24 measures temperatures from pipes that are fixed, at any angle, to walls or other surfaces. It's designed to work on pipes or any other cylindrical surface between 3/8" and 1 3/8" and it connects to any measuring device with a Type-K thermocouple jack.

Part No.	Description	Temperature (°F)	Includes
TC24	Pipe Clamp, 3/8" to 1 3/8"	-50 to 257°F	Clamp


4005MK

PROBE, PIPE CLAMP

Thermocouple attachment for instruments accepting K type probes.

- Response time: 2 seconds
- Cord length/material: 10' / 3.1 m TPE straight cord

Part No.	Temperature (°F)	Response Time
4005MK	-20 to 300	2 seconds


5028C

HUMIDITY PROBE

- Replacement probe for SRH77A
- Temperature range: 0° to 150°F
- Maximum tip temperature: 150°F

Part No.	Description	Temperature (°F)
5028C*	Humidity Probe	0 to 150

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMISTOR PROBE


1075

- Use with Cooper temperature instruments

Part No.	Description	Temperature (°F)	Response Time
1075*	Thermistor probe, puncture	-100 to 300	6 Seconds
1052*	Thermistor probe, needle	-100 to 300	4 seconds
2010*	Thermistor probe, air	-100 to 200	20 Seconds
4005*	Pipe Clamp	-20 to 300	12 Seconds
4011*	Pipe Strap Probe for SH66A, SRH77A	-25 to 212	—

STANDARD TEMPERATURE PROBE


ATT62

Thermistor type temperature probe for DT40 tester.

Part No.	Use with	Description
ATT62	DT40	Standard temperature probe tester, 15' sealed, type T

THERMOCOUPLE CONNECTOR


80CJM

- Isothermal screw terminal for K or J wire
- Suitable for up to 20 gauge thermocouple wire
- Two per package

Part No.	Description
80CJM	Plug Adapter—J Thermocouple Wire
80CKM	Plug Adapter—K Thermocouple Wire
80AKA	Adapter—K Thermocouple to Banana Plug

TEMPERATURE HUMIDITY ANALYZER

PEN


THP2

- Simultaneous display of temperature & humidity
- °F/°C switchable
- Hold switch
- Memory (Min/Max)
- Battery: One bottom cell (included)

Part No.	Description	Includes
THP2	Thermohygrometer pocket sized pen	Pen, Battery

HAND HELD


DSP1000

- Wet bulb, dry bulb, dewpoint temperature
- °F/°C switchable
- Memory (Max Hold)
- Data hold
- Battery: 9V (included)

Part No.	Description	Includes
DSP1000	Digital Psychrometer	Psychrometer, battery

THERMOHYGROMETER


FLUKE971

- Backlit dual display of humidity and temperature
- Measures dew point and wet bulb temperatures
- 99 record storage capacity
- Ergonomic design with belt clip and protective holster
- Quick-response capacitance polymer film sensor with twist-open protective cover
- Compact and lightweight (188 g/6.6 oz)
- Temperature range from -20 to 60°C (-4F to 140°F)
- Temperature accuracy: ±1°F from 32 to 113°F
- Relative humidity from 5 to 95%
- Humidity accuracy: ±2% RH from 10 to 90% at 73.4°F
- Min/Max/Avg Data hold
- Low battery indicator (uses 4 AAA batteries)

Part No.	Temperature (°F)	Humidity (% RH)	Includes
FLUKE971	-4 to 140	5-95	Temperature Humidity Meter, AAA Battery

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TEMPERATURE HUMIDITY ANALYZER


PRH2

DIGITAL POCKET PSYCHROMETER

Wet bulb, dry bulb, dew point, and %RH are shown on the backlight, dual display, and measurements can be taken either in the duct, or while walking around. Helps calculate target superheat.

- Use for walk around testing or in-duct analysis
- Clips to your pocket
- Narrow tip for insertion into ductwork
- Twist cap protects sensors when not in use
- Hold/MAX/MIN

Specifications:

- Probe size: 2" long, 0.38" diameter
- Temperature range: -4 to 140°F, 0.1°F resolution, ±2% accuracy
- Relative Humidity: 15-90%, 1.0% RH resolution, ±3% accuracy in 30-80% RH range, ±5% accuracy <30% RH, >80% RH
- Auto off: 10 minutes

Part No.	Includes
PRH2	Digital Psychrometer, 1 AA battery, included


605I

THERMOHYGROMETER SMART AND WIRELESS PROBE

- Quickly and accurately measures relative humidity and temperature in rooms, ducts, and chambers
- Automatically calculates dew point and wet bulb temperature
- Small diameter probe is ideal for in-duct measurements
- Humiditiy measuring range 0 to 100% RH
- Accuracy ±(1.8% RH + 3% of m.v.) at 77°F, (5 to 80% RH)
- Resolution 0.1%RH
- Temperature measuring range -4 to 140°F
- Accuracy ±1.4°F (-4 to 32°F), ±0.9°F (32 to 140 °F)
- Resolution 0.1°F

Users can read the measurements using the testo Smart Probes App installed on their smart device (Android or Apple operating systems). The testo Smart Probes App allows you to remotely read measurements from up to 6 Smart Probes and easily document/report the results.

Part No.	Includes
605I	testo 605i, Bluetooth thermo-hygrometer with App, 3 AAA batteries and certificate of calibration

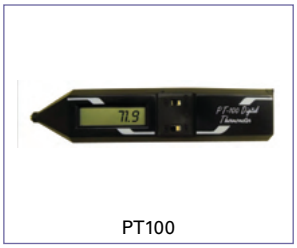
THERMOMETER


DPT1

DIGITAL PEN

- Sealed for field use
- Protective sheath
- Max/Min
- Pocket clip
- Probe can puncture soft ducts
- Ergonomic shape and easy to read LCD
- Auto off

Part No.	Temperature (°F)	Description
DPT1	-40 to 392	Water Resistant Thermometer


PT100

DIGITAL POCKET

- Temperature range: -40 to 200°F
- Temperature accuracy: 0.2°F surface 1°F air
- Power: 9V battery (not included)

Part No.	Temperature (°F)	Includes
PT100	-40 to 200	Thermometer


SPK1

POCKET KNIFE STYLE THERMOMETER

The SPK1 Pocket Knife Style Thermometer features a sharp tip for punching through flex duct and hangs easily from a vent or thermostat. Pull out the probe rod just like you would a pocketknife. 16 detent position grooves hold the rod at virtually at any angle. The probe rod folds away simply with no cover sleeve to lose.

- Measuring range: -58 to 392°F
- Auto off after 10 minutes

Part No.	Description	Includes
SPK1	Folding Pocket Knife Style Thermometer	Thermometer


PM12001

DIGITAL REMOTE PANEL

PM12001:

- 2.625" x 1.375" x 1" deep white polystyrene
- AA battery included

SP120:

- Operates without any batteries
- Battery backup
- Dimensions: 2.68" x 2.77" x .68"

Part No.	Temperature (°F)	Description
PM12001	-40 to 120	Digital Panel Meter
SP120	-58 to 158	Solar Powered Meter


20DTF

LED

LED retrofit thermometer 120V includes transformer.

- Resolution: 1°F
- Accuracy: ±2.0°F per NSF C-2
- Update time: 3 readings/second
- Humidity: Up to 100%
- Ambient temperature range: -30°F to 160°F
- EMI protection: To 15 volts per meter, vertical and horizontal from 2 MHZ to 1 GHZ

Part No.	Case Type	Mounting Code	LCD Display Size (In.)
20DTF*	Lexan	Front Flange	3/8


SDFS20

- Ranges: -58°F to 158°F
- 25160SD includes AAA backup battery

Part No.	Case Type	Mounting Code	LCD Display Size (In.)
SDFS20	Stainless Steel	Front Flange	3/8
25160SD	Lexan	Horizontal Wall	3/8


72SDF160

PLASTIC PANEL

56SD: 2.25" square to fit 2" round hole.
72SD: 2.8" square to fit 2 1/2" round hole.

- Ranges: -40°F to 160°F(72SDF160), -50 to 230°F (56SD230)
- Resolution: 0.1°F
- Ambient temperature range: -35°F to 160°F

Part No.	Case Type	Mounting Code	LCD Display Size (In.)
72SDF160*	ABS	Front Flange	1/2
72SDU160*	ABS	U-Clamp	1/2


224503

FACE MOUNT STEM

- Bimetal coil movement and glass lens
- .25" diameter stainless steel stem
- 2" dial face
- 3" back flange mounting

Part No.	Stem Length (In.)	Temperature (°F)
224503	6	- 40 to 160


25HBM

FOOD SAFETY

- 2" dial
- Stainless steel
- NSF Listed

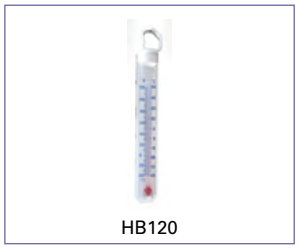
Part No.	Description	Temperature (°F)
25HBM	Refrigerator/Freezer Thermometer	-20 to 80


HZ80

GLASS REFRIGERATOR, HORIZONTAL

- Range in °F and °C

Part No.	Description	Temperature (°F)
HZ80	Horizontal	-40 to 80


HB120

GLASS REFRIGERATOR, VERTICAL

- Range in °F and °C

Part No.	Description	Temperature (°F)
HB120	Vertical	-40 to 120


24DT-L4F1

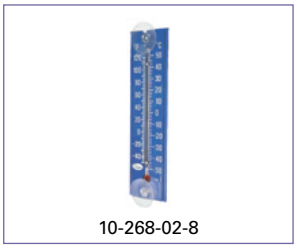
THERMOMETER AND LIGHT SWITCH FOR WALK-INS

- Light switch (15A) and SST J-box mount cover
- Switchplate with lighted switch
- 120V direct power
- Display in °F only

Part No.	Voltage	Update Time
24DT-L4F1*	110	1 Minute

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THERMOMETER


10-268-02-8

INDOOR/OUTDOOR WALL

- Instrument range: -40°F to 120°F
- Non toxic spirit filled glass tube
- 7.5" long

Part No.	Description	Temperature (°F)
10-268-02-8	Thermometer, Indoor/outdoor wall	-40 to 120


DVU35

SOLAR INDUSTRIAL THERMOMETER

DVU for removable applications. DVBM for permanent installation. Digital Vari-angle® thermometer maintains the strict requirements for thermometers in hydronic applications in that they are self-powered and within 1% accuracy. They offer the added feature of stem assemblies for direct replacement of mercury-in-glass types where environmental concerns exist.

- Case: High impact ABS
- Range: -40°F to 300°F
- Display: 3/8" LCD digits
- Accuracy: 1% of reading or 1°, whichever is greater
- Resolution: 1/10° between -19.9°F to 199.9°F
- Update: 10 seconds
- Ambient operating: -30°F to 140°F

Part No.	Case Type	LCD Display Size (In.)
DVU35*	High impact ABS	3/8
DVBM25*	High impact ABS	3/8


9VU35-110

VARI-ANGLE

Tapered bulb chambers are made of aluminium, precision ground. The tapered chamber forms a metal to metal contact with matching taper in the sockets, assuring maximum speed of response to temperature changes. Blue liquid filled magnifying lens tube. Precision made to guarantee accuracy within 1% of scale range. Silicone shock mounted for lasting durability.

- Case: Modern V-shape design with parts molded of GE Valoz® 735 polyester, in black textured finish. Heavy glass protected front.
- Stock items are °F only; °F/°C dual scale available
- 9VS models are mercury filled, °F/°C scale

Part No.	Stem Length (In.)	Scale Length (In.)	Temperature (°F)
9VU35-110*	3 1/2	9	-40 to 110
9VU35-120*	3 1/2	9	0 to 120
9VU35-180*	3 1/2	9	30 to 180
9VU35-240*	3 1/2	9	30 to 240
9VU6-120*	6	9	0 to 120

REMOTE DIAL VAPOR THERMOMETER


6020BB

BACK FLANGE/BACK CONNECTION

- Range in °F and °C

Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length
6020BB*	2	-40 to 60	4'


45BB060

BACK FLANGE/BACK CONNECTION

- Range in °F and °C

Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length
45BB060*	4 1/2	-40 to 60	4'
45BB260*	4 1/2	-40 to 60	20'

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


6020FB

FRONT FLANGE, BACK CONNECTION

- Range in °F and °C

Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length
6020FB*	2	-40 to 60	4′
6025FB*	2 1/2	-40 to 60	4′


20FB240

- Range in °F and °C

Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length
20FB240*	2	40 to 240	4′
25FB110*	2 1/2	-40 to 110	4′
25FB240*	2 1/2	-40 to 240	4′
45RB060*	4 1/2	-40 to 60	5′
45RB260*	4 1/2	-40 to 60	20′

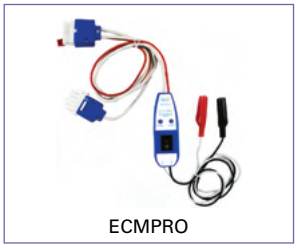

6020HL

HANGING BRACKET, BOTTOM CONNECTION

- Range in °F and °C

Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length
6020HL*	2	-40 to 60	4′
6025HL*	2 1/2	-40 to 60	4′

MOTOR TESTER


ECMPRO

UNIVERSAL ECM MOTOR TESTER

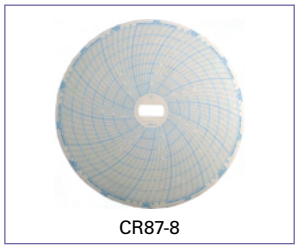
Part No.	Wire Length (In.)	Voltage
ECMPRO	24	24

DATA RECORDER


CR87B

- Advanced microcontroller design for reliability
- All controls on front panel for fast and easy setup
- Single or continuous chart rotation
- Battery backup assures normal operating during power interruptions
- Furnished complete with 2 cartridge pens and 60 assorted charts
- Chart Speed Accuracy ±1%
- Chart speed selectable: 6 hrs., 24 hrs., 7 days, 31 days
- Voltage: 120 Vac, 50/60 Hz; 12 Vdc vehicle/ marine with optional adapter
- Three different ranges

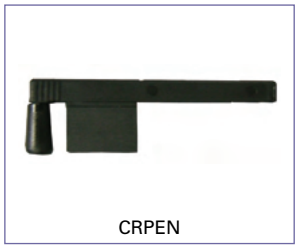
Part No.	Temperature Reading	Includes
CR87B	Fahrenheit	(60) Assorted Charts, (2) Pens and (1) 4" Temperature Probe with 15 ft Wire
CR87BC	Celsius	60) Assorted Charts, (2) Pens and (1) 4" Temperature Probe with 15 ft Wire


CR87-8

REPLACEMENT CHART

- For CR87B Series recorders
- 6" diameter, packaged in quantities of 60
- Charts available in Fahrenheit or Celsius

Part No.	Record Time	Temp. Range
CR87-8	7 Day	-20 to 50
CR87-9	7 Day	50 to 120
CR8717	7 Day	-30 to 10


CRPEN

REPLACEMENT PEN

Part No.	Color	Use with
CRPEN	Black	Chart recorders CR86, CR87, CR4, SR Series

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DATA RECORDER



DVTH

LOGGER WITH DISPLAY

Records and displays real time temperature, humidity and dew point. Displays logging summary, sample rate, memory used and memory left.
Shows measurement trends graphically.
Visual over and under alarm indicator for temperature and humidity. Dew point alarms are not available.
User single setpoint offset calibration is available through software for both temperature and humidity.

- Storage temperature: -5 to 160°F
- Time accuracy: ±100ppm 75°F
- Relative humidity range: 0 to 99% RH, non condensing
- Relative humidity accuracy: ±2% RH, from 10 to 90% RH
- Relative humidity resolution: 0.01% RH
- Temperature accuracy: ±1°F

Part No.	Humidity (% RH)	Storage Temperature (°F)	Includes
DVTH	0-99	-5 to 160	Datalogger, (3)AA batteries, USB cable, User Manual


SL300T

DATA LOGGER

The SL Series Data Loggers provide concise measurements for critical environmental conditions.
SL300TH measures temperature, humidity and dew point simultaneously.
SL300T measures temperature only.
Features/Benefits

- Windows™ 98SE, ME, 2000, XP and above compatible software (included); Not compatible with Windows™ 95 or NT
- PC, delayed start or push button recording control
- Temperature and Humidity alarm with visual indication on demand
- User selectable stop on memory full or memory rollover for continous recording
- Real time monitoring
- View graph and text simultaneously
- Can calibrate through software
- Displays temperature in °F or °C
- USB Interface standard

Part No.	Includes
SL300T	Logger, (1) Lithium battery, USB cable, User Manual
SL300TH	Datalogger, Lithium battery, USB cable, User Manual


LT2

DATA LOGGER

The LOGiT Series data loggers are the second generation of Supco's DL Series loggers. They are designed with the latest technology and are intended to accomodate technological advances for years to come. They are economic, compact and easy to use.

- Store over 10,000 measurement point sets, 21,000 individual readings
- 1 second to 18 hour sample rate; 1 second increments
- Real time data monitoring
- Over/under alarm threshold settings
- Visual alarm indication

Part No.	Humidity (% RH)	Storage Temperature (°F)	Senses	Includes
LT2	0-95	-40 to 170	Temperature	One Internal and One External Thermistor Temperature Measurement, simultaneously
LTT	0-95	-40 to 170	Dual Temperature	2 Independent External Temperature Measurements & Temperature Differential, 2 DLTP6 Sensors (Included), 6' Leads
LPT	-	-40 to 170	Pressure and/or Temperature	Datalogger
LCV	0-95	-40 to 170	Current and/or Voltage	CT300 current transducer, (2) Voltage clip leads, User manual
LLSU	-	-	-	Data logger software, USB cable

DISTANCE


FLUKE417D

The Fluke 417D laser distance meter is designed for indoor and outdoor applications. The extra bright laser is clearly visible, so you can always see your targeting point even if the target object is in a hard-to-reach spot, or at a long distance. The 417D has a large 2-line illuminated LCD screen and three-buttons for easy-to-use one-handed measurements.

Part No.	Range	Accuracy	Measuring Tolerance	Includes
FLUKE417D	0.2-40 m/ 0.6-131 ft	± 2 mm up to 10 m	2.0 mm ± 1.5 mm/± 0.06 in	Laser Distance Meter, Lanyard, 2 x AAA Batteries, User's Manual, Quick Reference Guide, Three-Year Warranty

TEMPERATURE ALARM


TA22

DIGITAL, TA33

- Temperature Range: -40°F to 160°F
- Audible and visual alarm
- Programmable alarm delay
- Programmable setting for "Alarm on OVER" or "Alarm on UNDER"
- °F and °C selectable
- Relay contacts
- AC adapter included

Part No.	Includes
TA22	Alarm, User manual, AC Adapter
TA33	Alarm, User manual, US 120 VAC to 12 VDC with 6 ft. cable


TA6

DUAL SET POINT

A single sensor temperature alarm which features two dial controls that allow the user to determine the over and under alarm set points from -10°F to +80°F. Slide switch can be set for a one hour delay before alarm activation or for immediate alarm activation. Screw type connectors are provided for connection to a remote alarm system or an automatic phone dialing unit. Probe wire can be extended up to 200 feet using any standard 22 gauge speaker wire.

- Voltage: 120 Vac

Part No.	Description
TA6	Dual set point alarm, -10°F to 80°F 120 VAC Fahrenheit Model


TA7

BATTERY POWER

An inexpensive temperature alarm for refrigerators and freezers.

- Adjustable alarm temperature setting from -10°F to +80°F
- Uses standard 9V battery (not included)
- Slide switch for immediate alarm response or 1 hour delay
- Loud audible alarm
- Automatic beeper warns when battery is weak
- Sensor wire can be extended up to 100 feet using standard 20-28 AWG speaker wire

Part No.	Description
TA7	Battery operated alarm, -10°F to 80°F Fahrenheit Model

WATER ALARM


WD10

WET DETECT SWITCH

Part No.	Description	Contact Rating (Amps)
WD10*	Wet Detect Switch	1


SOS-1

SAFETY OVERFLOW SWITCH

The SOS switch is a solid state device designed to detect a clogged condition in condensate drain lines. It works by sensing when the water is near the top of the pipe that it is clamped onto and responds by opening the circuit to the compressor contactor.
Since there are no moving parts in the switch, slime and sludge buildup do not affect operation until a blockage occurs. The switch is triggered by a near full condition of the drain pipe and is not affected by condensation or water droplets inside of the pipe. Unlike other types of level or safety switches, the SOS does not require cutting or penetration into the pipe and does not interfere with normal fluid flow in any way.

- For use with 24 VAC control circuits
- Pipe must be 80% or more full at the SOS location for a tripped condition to occur.

Part No.	Includes
SOS-1*	Switch, easy to attach primary drain pan fitting


WS1

WET SWITCH

A solid state control designed to help prevent flooding, damage to carpets, walls, furniture, ceilings, etc. Turns system off when detecting moisture due to condensate or drain leaks. As few as one or two drops will cause a wet switch to turn off a unit. Easily reset.

- LED activation indicator
- Contact rating: 2A

Part No.	Description	Contact Rating (Amps)
WS1*	Flood Detector	2

TOOLS & SERVICE

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DOOR ALARM



DAC55

REFRIGERATOR/FREEZER DOOR ALARM

- Provides visual and audible alarm with remote notification capability when the door is ajar
- Field adjustable freezer door alarm / door monitor settings
- Panic alarm / entrapment alarm (when optional IP-1 Pushbutton is used)
- Automatic control of interior compartment lights
- Automatic control of refrigeration (evaporator fans and solenoid valve) in a variety of user selectable configurations relative to the status of the door
- For walk-in freezers, walk-in coolers, temperature or environmentally sensitive compartments and secure areas
- ETL listed
- Door ajar alarm time delay: 2-60 minutes
- Refrigeration shutoff pre-delay: 1-120 seconds
- Dimensions:
- Surface: 8" L x 6" W x 1.8" D
- Flush: 9.375" L x 4.75" W x 1.8" D
- Power: 120 VAC 80 ma, surge protected (other operating voltages available)

Part No.	Description
DAC55	Refrigerator/Freezer Door Alarm (Includes MC1S)
MC1S	Surface Mount Door Sensor for DAC55

CHARGING SCALE


DS5000

ATLAS PROPANE SCALE

- Back-lit LCD display
- Large weighing platform and durable and sturdy injected molded components
- High accuracy load cell
- Designed for R600a and R290

Part No.	Size	Includes
DS5000	Large weighing	Two CLRF-18Y Series hoses, MBV4-01 Mini Ball-valve fitting, Propane cylinder adapter, Velcro loop, and case.


211117

R290 CHARGING SCALE

- Hex cylinder adapter included for easy attachment of refrigerant cylinder to scale
- Refrigerant cylinder not included
- Specially designed for R600a and R290
- Built in check valve will hold any remaining refrigerant within the 36" nylon tube
- Slim design for easy storage
- Two button keypad for easy operation
- Unit change (grams & ounces)
- Sensitivity: 0.035 ounces (1 grams)
- Charging Capability: up to 1 gram accuracy
- Capacity: 176 ounces (5000 grams)
- Fitting: 1/4" SAE M flare fitting with check valve
- Power Source: 3 x AAA 1.5v battery
- One touch tare weighing function
- Auto zero
- Auto off automatically turns off its power if the scale is not used within 3 hours

Part No.	Description
211117	R290 refrigerant high precision charging scale, 176 ounces (11 lbs) capacity


WEYTEK220

INFICON - WIRELESS

- 250 lb capacity scale
- Bluetooth transmission
- Range of 30 feet
- Communicates and displays through downloadable free app on your smartphone (android or iOS)
- Industry first alarm mode indicated when a programmed target refrigerant charge has been reached
- Job log function tracks refrigerant transferred; file can be emailed from your smart phone for analysis or record keeping
- Plastic carrying case included
- Displays in pounds/ounces, kilograms/grams and decimal pounds and ounces-only
- The optional handpiece (719715G1) features a large, full color display that is easy to read, even in direct sunlight. Can be used in lieu of a smart phone via bluetooth transmission.

Part No.	Includes
WEYTEK220	Wey-TEK Pro, magnetic handpiece strap, (3) AA Batteries, Carrying case



DS20000

JB INDUSTRIES

- Solid state load cell accurate to 0.25 oz/ 10gm without need of cylinder directly on center of weighing platform
- LCD screen on a handheld can be read from a distance or in direct sunlight
- 220 lb (100 kg) capacity
- Pieces are modularized so parts are easily replaced without need to purchase entirely new unit
- Displays weight in decimal pounds, pounds and ounces, and kilograms
- Auto shut off after 30 minutes to preserve battery and can be disabled
- Transfers up to 999 pounds in charging increments of .25 oz (10 gm)

Part No.	Size	Description
DS20000*	Platform Size 12 1/4"	Digital Scale, 220 Lb. Max.


SR47

FIELDPIECE - WIRELESS

The SRS3 Wireless Refrigerant Scale combines modern wireless electronics and rugged materials to perform at the high level you demand. The platform is made of thick aluminum to maintain accuracy over the life of the product. Rubber pad and bumpers cushion both the tank and the scale itself. A new wireless protocol sends platform measurements to both the included remote display and the Fieldpiece Job Link™ mobile system app. Platform electronics are sealed to block the occasional moisture seen from rain and splashing.

With Job Link you can receive your live weight measurement directly on your mobile device. Add weight into your Job Link mobile system reports, keep records of refrigerant use, or monitor wieht from a distance. Handle wireless range is 100', Job Link mobile system range is 250'.

View units your way: pounds and ounces, pounds only, ounces only, kilograms and grams, kilograms only, grams only

Part No.	Includes
SR47	Wireless Refrigerant Scale Platform, SR47; Wireless remote; (1) 9V Battery (remote), (6) AA Batteries (platform); Carrying case


CC220

CPS

- High capacity 220lb Compute-A-Charge® refrigerant charging/ recovery scale
- Fully enclosed and removable metal scale platform
- Large LCD display: 1 1.2" x 2"
- Measurements in .25oz increments.
- Accuracy: .015% of reading
- Include automatic off feature.
- Two 9V alkaline batteries (included)

Part No.	Description
CC220	Non-Programmable, 60 Hrs of Continuous Operation on Batteries
CC800A	Programmable, 30 Hrs of Continuous Operation on Batteries
CC220EW	May operate as wireless scale by pairing it to a mobile device. Manual or programmable mode


68802

RITCHIE

- Calibration standards traceable to the National Institute of Standards and Technology
- Large heavy duty platform and oversized strain gauge bridge for rigidity, accuracy and repeatability
- High quality load cell for improved accuracy
- Retractable 5' coiled cord for easier storage; removable platform and electronics
- Water and environment resistance with sealed LCD display
- Can be converted to a programmable scale
- Overload protection with OL on LCD. Plus, mechanical protection against extreme overload
- Reads minus (-) mode to show weight removed from the platform
- Measure imperial or metric units; (pounds/ounces, pounds decimal, and kilograms/grams)
- Resolution: 0.1 ounce / 0.01 pound/0.01 kg

Part No.	Includes
68802*	Scale, 110 Lb. Max. - charging module, power pack, instruction manual and larger carrying case to hold all parts
68803*	Programmable Scale, 110 Lb. Max. - charging module, power pack, instruction manual and larger carrying case to hold all parts
68812*	Scale, 220 Lb. Max. - charging module, power pack, instruction manual and larger carrying case to hold all parts
68813*	Programmable Scale, 220 Lb. Max. - charging module, power pack, instruction manual and larger carrying case to hold all parts
68804*	Programmable Upgrade Kit for 68802, 68812 - charging module, power pack, instruction manual and larger carrying case to hold all parts
68806*	115V A/C Power Supply Plug

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CHARGING SCALE


DHS55

SUPCO

- 55 lbs. max. scale
- 2% accuracy
- One-button operation
- Auto shut-off
- Lbs./kgs switchable
- Max. weight memory
- 9V battery included

Part No.	Description
DHS55	Digital Scale


05641560

TESTO 560I

The new testo 560i Digital Refrigerant Scale and Intelligent Valve, revolutionizes the charging of refrigeration systems, ductless mini splits, and heat pumps. With the combination of the testo 560i Digital Scale, testo Intelligent Valve, a compatible digital manifold from Testo and/or the testo Smart App, you can charge refrigeration systems, ductless mini splits, and heat pumps automatically, more quickly, and more precisely than ever before. You can choose from four automatic programs according to target superheat, subcooling, superheat, or refrigerant weight. Simply select the charging program in the Testo manifold or testo Smart App, enter the target value and the testo 560i Digital Refrigerant Scale and Intelligent Valve does the rest for you. Your benefits: Time saved to complete other tasks, as well as errorfree and precise charging of refrigeration systems. The Digital Refrigerant Scale and Intelligent Valve automatically connects via Bluetooth to the manifold or the App on your smartphone or tablet. This gives you flexibility even in confined environments. Thanks to the compact and robust housing, the low weight and the built-in carrying handle, the testo Automatic Filling System is extremely portable.

Part No.	Includes
05641560	testo 560i digital refrigerant scale with Bluetooth, Shoulder bag, 4 x batteries (AA), Instruction manual
05642560	testo 560i digital refrigerant scale with Bluetooth, Refrigerant valve with Bluetooth, Shoulder bag, 4 x batteries (AA), 1 x 9 V (6LR61) battery, Instruction manual
05605600	testo 560i Intelligent Valve with Bluetooth (for testo 560i Digital Refrigerant Scale), 1 x 9V (6LR61) battery, Instruction manual

ELECTRONIC LEAK DETECTOR


25314

ACCESSORY/RENEWAL

- Parts for H10N, H10G, H10PM, H10 Pro, H10B

Part No.	Description
25314*	Clear Plastic Probe Tip
25325*	Battery Charger, H10PM, Pro, Only
25333*	Cigarette Lighter Adapter, H10PM, Pro, N Only
25323*	Bacharach Tune-Up Kit H10PM/H10G 3015-0781


WEYTEKPRO

WEY-TEK PRO REFRIGERANT CHARGING SCALE

A large, 275 lb. capacity platform allows you to easily weigh large tanks, while its 0.1 oz (3 g) display resolution and optional small charge adapter kit allows you to accurately weigh small, critical charges. Wey-TEK Pro features an intuitive wired handpiece with a bright, backlit display for ease of operation. For cordless use, simply download the free Wey-TEK Pro app on the App Store or Google Play.

- 275 lb. (125 kg) capacity platform designed to fit all tank sizes
- Wired handpiece with bright, backlit LCD display
- Bluetooth connectivity with free mobile app
- 0.1 oz (3 g) resolution for critical charging of all refrigerants including A3 flammables
- Compatible with small charge adapter kit (PN 501-601-G1) for mounting A3 refrigerant bottles
- OTA remote upgradeable

Part No.	Description	Includes
WEYTEKPRO	REFRIGERANT CHARGING SCALE 275LB A2L	Wey-TEK Pro, Magnetic handpiece strap, (3) AA Batteries, Carrying case
501601G1	Wey-TEK Pro Small Charge Adapter Kit	T fitting with 1/4 SAE male threads, 1/4 turn valve, 18 in. (457 mm) refrigerant hose with 2 mm internal diameter, CGA600 female to 7/16-28 (EN417 Lindal) male bottle adapter, 7/16-28 (EN417 Lindal) female to 1/4 SAE female bottle adapter, 1/4 SAE female to 1/4 SAE female bottle adapter
501311P1	Magnetic handpiece strap	-
501700G1	Carrying case	-
501308P1	Replacement battery door	-

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


DTEK3

D-TEK® 3

D-TEK 3 builds on the proven performance of D-TEK leak detectors with added features to help you get your job done faster. An easy-to-change sensor, quick charge lithium ion battery, and a new ergonomic design make D-TEK 3 a versatile tool for everyday RAC maintenance and repair. Plus, a new optional CO2 sensor gives you two instruments in one.

- Sensitivity of 0.03 oz./year (1 g/year)
- Detects CFCs, HCFCs, HFCs, HFOs, blends (including A2Ls), and CO2*
- All new, redesigned infrared sensor
- Longest sensor life in the industry
- Easy field replacement
- New lithium ion battery
- Quick charge capability
- Easy field replacement
- Automatic and manual zero modes
- Sensitivity will not degrade over time
- Rugged carrying case included

* Requires optional CO2 sensor

INFICON

Part No.	Sensitivity	Includes
DTEK3	0.03 oz./y	D-TEK 3, Infrared sensor, Lithium ion battery, Spare filters, AC wall charger, Carrying case


DTEKPRO

REFRIGERANT LEAK DETECTOR

D-TEK Pro Refrigerant Leak Detector, the ultimate in speed and sensitivity. With detection down to 0.1 ppm and superior air flow, D-TEK Pro finds smaller leaks from a greater distance. No need to switch between several modes – the all-in-one Pro Mode combines Cloud Hunting® and pinpointing, giving D-TEK Pro the ability to locate the cloud and identify the leak location within the same mode. Download the free mobile app to generate customer reports with ppm tracking and confirm leak checking location with GPS. With no expensive charcoal filters to replace and no need to wait for purging, D-TEK Pro the high performance, low maintenance tool every commercial tech needs on their service vehicle. Detects all CFCs, HCFCs, HFCs, HFOs and blends including A2Ls

INFICON

Part No.	Includes
DTEKPRO	D-TEK Pro; Soft case with shoulder strap; Phone holder; Spare filters; Charging cable; Carrying case


DTEKSTRATUS

REFRIGERANT LEAK DETECTOR AND MONITOR

D-TEK Stratus combines the superior leak detection of INFICON D-TEK leak detectors with the cloud hunting capability of a portable monitor all in one hand-held unit. Quickly locate the area containing the leak using the large, easy-to-read LCD display, and then pinpoint the leak all with one instrument! D-TEK Stratus is the next big thing in refrigerant leak detection.

- Innovative cloud hunter mode with ppm readout helps locate leaks faster than ever
- Cloud hunter and pinpoint modes is like having two leak detectors in one
- All new, redesigned infrared sensor
- Longest sensor life in the industry
- New lithium ion battery
- Designed for ergonomic comfort
- Automatic and manual zero modes
- Rugged carrying case included
- Detects all CFCs, HCFCs, HFCs, and HFOs

INFICON

Part No.	Sensitivity	Includes
DTEKSTRATUS	0.03	D-TEK Stratus,Infrared sensor, Lithium ion battery, Spare filters, AC wall charger, DC car charger, Extra-long probe, Carrying case, Earbuds
TEKMATE	0.25	TEK-Mate Refrigerant Leak Detector, Sensor, (2) D size alkaline batteries, spare filters, a hard plastic carrying case
WHISPER	0.01	Whisper Ultrasonic Leak Detector, Headphones, Rubber extension probe, (2) "D" alkaline batteries, Hard plastic carrying case


0330019

ACCESSORIES

INFICON

Part No.	Description
0330019	Power Adapter and Cord, 120V
703020G1	Replacement Sensor
703055P1	12V Lighter Plug
705600G1	Tip-filter kit
706700G1	Sensor
712333P2	D-TEKSELECT Sensor Cover
712700G1	NIMH Power Stick
716701G1	CO2 Sensor
724701G1	D-TEK 3/STRATUS Kit
724701G2	D-TEK 3/STRATUS CO2 Sensor Kit
724701G3	D-TEK 3/STRATUS HC Sensor Kit

ELECTRONIC LEAK DETECTOR


LD5

REFRIGERANT, ELECTRONIC

- Unique color graphic LCD display
- Compatible with most commonly used refrigerants today including 1234-yf and R-134a
- Long life, stable sensor that will last up to 10 years.
- Automatic calibration and reset to ambient
- User friendly message and error screens
- High-intensity LED inspection light
- 3 adjustable sensitivity levels
- True mechanical pump
- Uses 4 AA batteries (included)
- Probe length: 17"
- 2-year warranty

Part No.	Sensitivity	Includes
LD5	0.25	two D size alkaline batteries


LS1

THE LEAK-SEEKER®

CPS® Products introduces a new generation of leak detectors featuring a revolutionary new E_MOS® detection technology. Features:

- 500 hour nominal sensor life
- Sensor not contaminated by R404a
- More than 50 hours battery life (3 C batteries)
- Sensitivity remains constant over the life of the sensor
- Superior sensitivity to R410A and new HFO refrigerants
- Sensitivity to 35 parts per million (less than .1oz per year)
- Senses all refrigerants including those with hydrocarbon components
- Meets all US International standards for both automotive and commercial use

Part No.	Description	Includes
LS1	Leak-Seeker® I, Manual Sensitivity Selection 1 Year Warranty	Leak detector, 15.5" Flex Probe
LS2	Leak-Seeker® II, Fully Automatic Sensitivity Selection, 2 Year Warranty	Leak detector, 15" Flex Probe
LSCG	Leak-Seeker Combustible Gas Leak Detector	Leak detector, Padded Storage Case, Quick Start Guide, 2 Prong AC Plug (With USB Receptable), USB Cord
LS2XF	Replacement Sensor for LS1 and LS2	10 Pack of sensors


DR58

ADVANCED INFRARED LEAK DETECTOR

- Three sensitivity levels down to 0.1 oz./year
- Won't trigger on oil or moisture
- Senses CFC, HFC and HCFC blend refrigerants
- 8-hour lithium Ion battery lasts all day and beyond
- Visual alert and peak button for noisy environments
- Audible alert with mute button
- Magnetic hanger to hang SRL2 during leak repair
- Response time: 1/2 second to 1 second
- Probe length: 15"
- Flex extension and rigid extension probes
- Slots for instruments, chargers, filters, O-rings, extension probes and manuals

Part No.	Description	Includes
DR58	Heated Diode Refrigerant Leak Detector	(1) Heated Diode Refrigerant Leak Detector – DR58; (5) Replacement Filtered Tips – RFT6; (1) Blow-Molded Case; (1) Heated Diode Sensor – RHD1
DR82	Infrared Refrigerant Leak Detector	(1) Advanced Infrared Refrigerant Leak Detector – DR82; (5) Replacement Filtered Tips – RFT6; (1) Blow-Molded Case


H10PRO

UNIVERSAL REFRIGERANT LEAK DETECTOR

- Detects all halogen-based, non-flammable CFC, HFC and HCFC refrigerants including: R12, R22, R134a, R404a, R410a, R502, R507 and many others
- Utilizes a tried-and-true positive ion emission heated diode sensor and selectable sensitivity for the ultimate accuracy in pinpointing the leak source
- Ultra-sensitive detection as low as 0.006 oz/yr
- Dual power sources include rechargeable battery and external DC powered (wall adapter included for charging and continuous running)
- Features a visible LED leak rate indicator on the probe tip as well as an audible buzzer
- Visual sensor calibration system (with included reference leak bottle)
- Headphone port allows for optional headset use in high-noise environments
- Warm-up Time: Approximately 2 minutes

Part No.	Description	Includes
H10PRO	Ultra-sensitive universal refrigerant leak detector	Sensor
30150486	Replacement Refrigerant Sensor for H10PRO	Sensor
30155942	Rubber probe tip for H10PRO/H10PM/H10P	Probe tip


GASMATE

COMBUSTIBLE GAS DETECTOR

- Best sensitivity available at 5 ppm to methane
- Adjustable sensitivity allows you to pinpoint leaks fast
- Certified intrinsically safe for use in combustible environments
- 3 year replacement warranty

INFICON

Part No.	Includes
GASMATE	GAS-Mate Combustible Gas Leak Detector, Sensor, two D size alkaline batteries, hard plastic carrying case


LD5000

PROWLER LEAK DETECTOR

- Extremely accurate for all HFC, HCFC, and blended refrigerants as well as new HFO refrigerants
- Leak indicator: bar graph, audible alert, and vibration in handle
- Sensor life tested to be greater than 10 years, unique in the industry
- Safe to use in combustible atmosphere
- Low battery consumption, excellent circuit stability, extremely long sensor life, and electromechanical function of sensor does not diminish over time or with use
- Audible alarm can be muted
- 17" flexible probe

Part No.	Description	Includes
LD5000*	Prowler Gas Leak Detector	JB LD-5000 PROWLER Electrochemical Refrigerant Leak Detector; (4) AA Batteries; Rugged Case
LDRF5*	Replacement Filters for LD500	Filters (5 pack)
LDTV*	Leak Test Vial for LD5000	Vial
LDPK*	Parts Kit for LD5000	Sensor, Filter Kit, Test Vial
LDCS*	Carrying Case for LD5000	Case


PAGMIR

PORTABLE GAS ANALYZER

The PAGMIR offers superior performance and functionality for low ppm level leak detection of refrigerants, Carbon Dioxide, Nitrous Oxide or Sulfur Hexafluoride. A built-in library of 50 refrigerants enables the PGM-IR to accurately detect the smallest leaks at their source. The unit is immune to sudden changes in temperature or humidity and to over-exposure. The PGM-IR requires no zeroing of positive readings with extended exposure to gas. It has a data logging capacity of up to 200 readings. With its high flow rate, real-time ppm concentrations or TWA values are displayed instantly with corresponding audible tick-rate indicator to precisely pinpoint leaks. Rapid clearing time enables accurate ambient-air leak detection using the probe along a chiller or display-case. A re-zeroing algorithm and filter/bladder system allows the unit to be used in contaminated areas without affecting target gas readings. The rechargeable Li-ion battery provides a minimum of 8 hours of runtime for all-day usage.

BACHARACH

Part No.	Description
PAGMIR	Portable Refrigerant Leak Detector for HFC, CFC, HCFC Gases (without internal purge-air bladder)

UV LEAK DETECTOR


SPEHVLBEZE

FLUORESCENT LEAK DETECTION KIT, BIGEZ™ COMPLETE

The BigEZ™ cartridge can treat 64 medium-sized AC&R systems or 32 large-sized systems. There's no pouring, no refrigerant, and no worrying about spills.

The BigEZ™ injector easily overcomes system pressure. Each cartridge is clearly labeled with dye dosage marks so that the correct amount of dye can be added every time.

Includes: SPEHVLCS violet light, LED leak detection lamp, SPEBEZ4E 4 oz BigEZ™ fluorescent dye cartridge, BEZ50 BigEZ™ dye injector assembly, BEZ25 8" BigEZ™ hose assembly

SPECTROLINE® HVAC/R

Part No.	Includes
SPEHVLBEZE	UV LED lamp, SPE-BEZ400E-CS injection kit, AAA batteries, glasses and Glo-Away™ Plus dye cleaner

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

UV LEAK DETECTOR


SPEHVLEZE

FLUORESCENT LEAK DETECTION KIT, EZ-JECT™ COMPLETE

The revolutionary way to add fluorescent dyes into air conditioning and refrigeration systems — without the use of additional refrigerant, manifold and additional hoses.

- No pouring and no refrigerant required for injection.
- One calibrated cartridge provides exact dosing for multiple systems.
- Easily overcomes system pressure. Inject dye with a turn of the handle.
- SPEHVLEZE includes: SPEHVCS violet light LED leak detection lamp, (2)SPE?EZ5E 0.5 oz universal/POE dye cartridges, EZ50EZ?Ject™ dye injector assembly, EZ25 8"EZ?Ject™ hose assembly, 128186 R?410a adapter/purge fitting
- SPEEZ100ECS includes: (2) SPE?EZ5E 0.5 ozuniversal/POE dyecartridges, EZ50 EZ?Ject™dye injector assembly, EZ25 8" EZ?Ject™ hose assembly, 128186 R?410a adapter/purge fitting

SPECTROLINE® HVAC/R

Part No.	Includes
SPEHVLEZE	violet light LED leak detection lamp, (2) SPE-EZ5E 0.5 oz universal/POE dye cartridges, EZ50 EZ-Ject™ dye injector assembly, EZ25 8" EZ-Ject™ hose assembly, 128186 R-410a adapter/purge fitting
SPEEZ100ECS	(2) SPE-EZ5E 0.5 oz universal/POE dye cartridges, EZ50 EZ-Ject™ dye injector assembly, EZ25 8" EZ-Ject™ hose assembly, 128186 R-410a adapter/purge fitting
SPEEZ5ECS	Fluorescent Dye Cartridge, EZ-Ject™, 0.5 oz universal/POE
RPEZ25	8" EZ-Ject™ hose assembly
RPEZ50	EZ-Ject™ dye injector assembly


SPEHVLGSE

FLUORESCENT LEAK DETECTION KIT, GLO-STICK® COMPLETE

The GLO-STICK® Complete Fluorescent Leak Detection Kit contains convenient and mess-free, single-dose capsules. Add refrigerant and fluorescent dye in one simple step. This kit comes with 4 capsules for different sized AC&R units. Whatever maintenance situation you come across, this kit has a dye capsule that's perfect for the job.

SPECTROLINE® HVAC/R

Part No.	Includes
SPEHVLGSE	violet light LED leak detection lamp, (1) SPEGS1E 0.5 oz universal/POE GLO-STICK® dye capsule, (2) SPEGS2E 0.5 oz universal/POE GLO-STICK® dye capsules, (1) SPEGS3E 0.5 oz universal/POE GLO-STICK® dye capsule, BV50 bleed valve for attaching GLO-STICK® capsule to service hose, EZ25 8" EZ-Ject™ hose assembly, 128186 R-410a adapter/ purge fitting, PC0249 purge capsule

Continued on next page

Part No.	Includes
SPEGS1ECS	0.5 oz universal/POE fluorescent dye capsule. Treats up to 15.1 oz to 1.6 qt of lubricant or 3 to 4.9 lbs of refrigerant or 2 tons of cooling
SPEGS2ECS	0.5 oz universal/POE fluorescent dye capsule. Treats up to 1.7 to 3.2 qt of lubricant or 5 to 9.9 lbs of refrigerant or 6 tons of cooling
SPEGS3ECS	0.5 oz universal/POE fluorescent dye capsule. 3.3 qt to 2 gal of lubricant or 10 to 25 lbs of refrigerant or 12 tons of cooling


SPEBEZ5E4CS

FLUORESCENT DYE INJECTION SYSTEM, BIGEZ™

The revolutionary way to add fluorescent dyes into air conditioning and refrigeration systems — without the use of additional refrigerant!

Just one connection, then turn the handle to inject the dye. No complicated hookups! Ideal for preventive maintenance programs and for dosing multiple, medium-to-large AC&R units.

- For Medium to Large Size Systems
- Most economical for larger systems. Works in all systems, including high-pressure R-410A systems

SPECTROLINE® HVAC/R

Part No.	Description
SPEBEZ5E4CS	BigEZ™ Fluorescent Dye Cartridge in Clamshell, 4 oz universal/POE



RPGA2

GLO-AWAY® PLUS FLUORESCENT DYE CLEANER

Specially formulated to remove fluorescent leak detection dye within seconds.

The cleaner removes all traces of dye from any surface area and helps the technician to finish repairs fast, without the hassle of spending time trying to remove dye.

Stronger formula makes it easier to remove the toughest dye stains.

SPECTROLINE® HVAC/R

Part No.	Description
RPGA2	2 Oz spray bottle


69789

UV LEAK KIT

- Light-concentrating reflectors surround each of five LEDs for intense illumination
- Blue bulbs for pinpointing leaks from greater distances
- 100,000+ hour LEDs
- Constant or momentary ON
- Sealed to lock out moisture
- Bulbs recessed for protection in the stainless steel head
- Long life lithium battery included
- All models are covered with a limited lifetime warranty

Kit includes lamp, disposable dye injector tube for two 1/2-oz. applications, carrying pouch, and injector hose for AC/R.

YELLOW JACKET

Part No.	Description	Includes
69789*	Micro LED, Dye Kit for AC/R	UV LED Flashlight, (2) AA Alkaline Battery
69782*	Lamp Only, 5 UV Bulbs for 391-415nm wavelength, Waterproof	UV LED Flashlight, (1) AA Alkaline Battery
69721*	Universal Disposable UV Dye Injectors Only (2/pack)	1 oz. (30 ml) Injector (2 pak) (4 residential applications/ package) is a universal disposable 1 oz. applicator for fast economical dispensing

COMBUSTION ANALYZER


502203G1

FLUE-MATE™ COMBUSTION ANALYZER

FLUE-Mate is the all-in-one combustion analyzer built to improve your combustion efficiency and safety. In addition to combustion analysis, this tool is also equipped with an integrated manometer, thermometer, ambient CO test, cracked heat exchanger test and provides draft analysis. FLUE-Mate features intuitive mode selection and navigation, 15 programmable fuel selections and field-replaceable O2 sensor, probe and water trap to minimize downtime. Download the FLUE-Mate app to generate quick analysis reports on your smart phone or tablet. FLUE-Mate is the user-friendly, comprehensive combustion analyzer for all your heating jobs. Compatible fuels - Natural gas, Propane, Fuel oil (#2, #4, or #6), Diesel, Wood, Coal, Bio-fuel 5%, L.P.G., Butane, Bagasse, B100

INFICON

Part No.	Includes
502203G1	FLUE-Mate, Flue gas probe with 5 ft. (1.5 m) dual hose, Manometer pressure hose, Water trap, AC wall charger, Carrying case


0564300283

TESTO 300 SMOKE EDITION KIT

- Designed for residential and commercial applications
- Equipped with durable O2 and CO sensors
- Large scratch-resistant 5 in. HD display with smart-touch operation and replaceable protective film
- Smart-touch technology responds immediately, ensuring intuitive and easy operation
- Stored, clearly structured menus for all relevant measurements
- Ready to measure at the touch of a button in standby mode
- Conveniently email measurement reports directly on-site via WiFi
- Create documentation (including measuring value, measuring location, customer data) easily on site

Specifications

- O2 measurement: 0 to 21 vol. %
- CO measurement (without H2 compensation): 0 to 4,000 ppm
- CO measurement (with H2 compensation): 0 to 8,000 ppm
- Efficiency testing (Eta): 0 to 120%
- Flue gas loss: 0 to 99.9%
- Draft measurement: -10 to 40 inH2O
- Pressure measurement: -40 to 80 inH2O

testo

Part No.	Includes
0564300283	testo 300, USB Power Supply, 12 in. Flue Gas Probe with 5 ft. Hose, Bluetooth Printer, (6) Rolls of Spare Thermal Paper, (10) Spare Particle Filters, Soft Case, EasyHeat PC Analysis Software, Calibration Certificate
0564300282	testo 300, USB Power Supply, 12 in. Flue Gas Probe with 5 ft. Hose, (10) Spare Particle Filters, Soft Case, EasyHeat PC Analysis Software, Calibration Certificate
05633105	1 x roll thermal paper for printer; 5 x particle filters; Bluetooth®/IRDA Printer (0554 0621); Calibration protocol for the measurement of O2, CO, hPa and °C; case; mains unit incl. cable; probe 180 mm with cone; Rechargeable battery; silicon hose for pressure measurement; USB-C cable

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

COMBUSTION ANALYZER



0564300492

TESTO 300 PRO KIT

- Longer sensor service life thanks to automatic sensor protection
- Integrated draft and gas zeroing without removing the probe – the probe can remain in the flue during zeroing
- For intensive daily use: high-quality Longlife sensors for O_2 and CO with a service life of up to 6 years. That means at least one sensor replacement is saved in the course of a normal working life
- Integrated fine pressure and 4 Pa measurement for legally prescribed measurements
- Manufacturer's warranty of up to 5 years on O_2 and CO sensor with product registration – without a maintenance contract
- Versatile probes and fast probe changes: take advantage of quick-change probes and the multi-functional handle for attaching a variety of probe shafts (each available to order separately). You can for instance use longer probe shafts for flue gas pipes with larger diameters or flexible probes for difficult-to-access measuring points

Part No.	Includes
0564300492	testo 300 (0633300472), USB Power Supply, 12 in. Flue Gas Probe , (10) Spare Particle Filters, Hard Case, EasyHeat PC Analysis Software, USB mains unit with cable
0564300493	testo 300 (0633300472), USB Power Supply, 12 in. Flue Gas Probe , (10) Spare Particle Filters, Spare Thermal Paper, Hard Case, Printer, EasyHeat PC Analysis Software, USB mains unit with cable
0564300496	testo 300 (0633300485), USB Power Supply, 12 in. Flue Gas Probe , (10) Spare Particle Filters, Spare Thermal Paper, Hard Case, Printer, EasyHeat PC Analysis Software, USB mains unit with cable


05633104

RESIDENTIAL COMBUSTION ANALYZER

- 10 hour battery life
- Work all day with lithium rechargeable battery technology.
- Condensate trap
- Start testing faster - in only 30 seconds.
- Quick exchange probe fi lter
- Powerful magnets
- O, CO (w/ NOx filters standard), CO
- Draft and Pressure
- Temperature (flue and ambient)
- Combustion efficiency and excess air
- Undiluted CO (CO air free)
- Ambient CO

Part No.	Includes
05633104	analyzer, battery, sensors, probe w/cone, hose, case, silicon tubing (for pressure), extra particulate filters (5), AC power supply (USB), pressure plugs (5), and calibration certificate.

CARBON MONOXIDE TESTER


CO CHECK

CO CHECK

Combines superior accuracy and reliability with simple, one-hand operation.

- Audio alarm, colored LEDs and LCD indicate CO level
- Best in class accuracy at 3% of reading +/-1 ppm
- Runs on one 9V battery for 200 hours of operation
- Comes with clip-on holster case
- 2 year replacement warranty

Part No.	Accuracy	Range (ppm)	Includes
CO CHECK	3% of reading, ± 1 ppm	1-999	Tester, holster and belt clip


SCM4

CARBON MONOXIDE DETECTOR

The SCM4 Carbon Monoxide Detector has an electrochemical sensor fast enough for walk-around tests.

- Field-replaceable CO sensor
- Advanced three-pin sensor measures 0 to 1000 ppm CO
- Calibrate to ambient quickly with ZERO button
- Audio and visual alarms (with MUTE function)
- Bright-blue backlit dual-display to test in dark crawl spaces
- Magnetic hanger for hands-free operation
- Alarm rate increases as carbon monoxide concentration increases
- MAX hold to help you zero in on the source
- Sensor Calibration: Factory calibrated 0 to 1000 ppm; 0 to 2000 ppm (less than 5 minute exposure time)
- Sensor Type: Electrochemical (specific to CO)
- Initial Accuracy:
- 73°F±9°F, <75% R.H.
- 0-15ppm ±5% reading ±1 ppm after zeroing
- 16-35ppm ±5% reading ±2 ppm after zeroing
- 36-1000ppm ±5% reading ±5ppm after zeroing
- 15 to 90% R.H., non-condensing
- Storage Environment: 32 to 68°F (0 to 20°C) at <80% R.H. with battery removed from meter.
- Battery: 9V.
- Battery Life: 150 hours typical alkaline.
- Auto Power Off: After 15 minutes.

Part No.	Range (ppm)	Includes
SCM4	0 to 1000; 0 to 2000 (less than 5 minute exposure time)	CO Detector SCM4, 9V Battery (installed), Operator's Manual


CO1000

METER

Measures CO quickly and easily in working and living environments.

- Backlit LCD
- Automatic calibration
- Max hold and data hold
- Auto power off
- Audible alarm: from 35 PPM to 200 PPM, the beeper sounds periodically. Above 200 PPM, the beeper sounds continuously.
- Carrying case and 9V battery included

Part No.	Accuracy	Range (ppm)	Includes
CO1000	5% or ±10 ppm <100 ppm, 10% or ± 10 ppm > 100 ppm	0-1000	Meter, Carrying case, User manual, (1) 9V battery

GAS/AIR FLOW TESTING


05630009

SMART PROBES AC & REFRIGERATION TEST & LOAD KIT

The kit contains two testo 549i high-pressure gauges, two testo 605i thermohygrometers and two testo 115i clamp thermometers. Used in conjunction with your smartphone/tablet, the kit is ideal for servicing, troubleshooting and installing air conditioning and refrigeration systems. The testo Smart Probes App makes your work easier and more efficient: over 90 stored refrigerants, automatic calculation of superheating/subcooling, target superheat and cooling/heating load, emailing of measurement data reports as PDF or Excel files.

- Measure high-side & low-side refrigerant pressure & temperatures (simultaneously) of AC/refrigeration systems
- Testo 549i now includes 45° angled hose connections
- Testo 605i now includes 90° foldable probe
- Calculate superheat and subcooling in the Smart Probe App
- Measurement data is transmitted to the convenient and powerful testo Smart Probes App in your smart device
- HVAC softcase holds the complete set of smart probes
- 350 ft. Bluetooth® Range

Part No.	Includes
05630009	2 x testo 115i clamp thermometers, 2 x testo 549i high-pressure gauges, 2 x testo 605i thermohygrometers, testo HVAC softcase


78055

FUEL PRESSURE TEST KITS

Gas Pressure Kits 78055, 78060

- Easier to use than a manometer, this compact kit helps you accurately set manifold pressure for natural or L.P. gas.
- Sensitive diaphragm gauge calibrated in inches of water column.
- Tube nipple for easy connection to system manifold.

Fuel Oil Kit 78020

Complete kit to determine pump efficiency, cut-off, suction etc. Also use to analyze or trouble shoot burner efficiency. Kit includes 2" gauge, 30" to 0 to 150 lbs. scale, and 12" yellow jacket hose with fittings.

Part No.	Includes	Scale Range
78055*	Gas Pressure Kit - 1/4" NPT Male gauge - 0-10" W.C., Barb-fitting, Hard Carrying Case, User Manual	0 to 10" w.c.
78060*	Gas Pressure Kit - 1/4" NPT Male gauge - 0-35" W.C., Barb-fitting, Hard Carrying Case, User Manual	0 to 35" w.c.
78020*	Fuel Oil Test Kit - 2" gauge, 30" 0-150 lb. scale, 12" hose with fittings, Hard Carrying Case, User Manual	30" to 0 to 150 psi


2001

MAGNEHELIC DIFFERENTIAL PRESSURE GAUGE

Used to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems. It also checks gas-air ratio controls and automatic valves.

- Indicate low air or gas pressures - positive, negative, or differential
- Includes pipe to barb adapters and mounting hardware
- Connections: 1/8 FPT
- Ambient temperature range: 20°F to 140°F
- Rated total pressure: -20" Hg. to 15 psig
- Overpressure: relief plug opens at approximately 25 psig
- Accuracy: ±2% of full scale throughout range at 70°F
- Flush mount diameter: 4 9/16"

Part No.	Range (H2O)	Minor Divisions
2001	0 to 1.0	0.02
2002	0 to 2.0	0.05

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GAS/AIR FLOW TESTING


405I

HOT-WIRE ANEMOMETER SMART AND WIRELESS PROBE

- Measures air velocity, volume flow, and temperature
- Measures in-duct air flow and automatically calculates volume flow (enter duct dimensions simply)
- Small dia. (<0.5") and 15" telescopic shaft length is ideal for in-duct flow averaging and timed traverse
- Perform air duct leakage tests
- Hot Wire measuring range 0 to 6,000 fpm

Users can read the measurements using the testo Smart Probes App installed on their smart device. The app lets users configure duct dimensions to calculate volume flow measurements. Use the testo 405i along with the testo 605i thermo-hygrometer to determine cooling and heating performance. The testo 405i works on smart devices with either Android or Apple operating systems.

Part No.	Includes
405I	testo 405i, Bluetooth hot-wire anemometer with App, 3 AAA batteries and certificate of calibration


FLUKE922

AIRFLOW/MICROMANOMETER

Combines pressure, airflow, velocity and temperature in a single meter. Compatible with most pitot tubes. User can input duct shape and dimensions for maximum accuracy.

- Pressure in HO, pascals, mm HO, mbar, PSI.
- Velocity in fpm, m/s. Air volume cfm, m/hr, l/s. Temperature °F, °C
- Air Velocity: Range ±16" HO; Resolution 0.001"
- Velocity: 250 to 16000 fpm; Resolution 1 fpm
- Air Volume: 0 to 99999 cfm; Resolution 1 cfm
- Temperature: 32 to 122°F; Resolution 0.1°F
- Accuracy: Pressure, Temperature(±1%+)
- Air Velocity (±2.5% at 2000fpm)

Includes soft case, 2 rubber hoses

Part No.	Includes
FLUKE922	922 Airflow Meter, Two Rubber Hoses, Four AA Batteries 1.5 V Alkaline, Users Manual, Soft Carrying Case
FLUKE922/KIT	922 Airflow Meter, 12" Pitot Tube, 2 x Rubber Hoses, TPak Magnetic Strip, TPak Strap, 9", TPak Latch Tab, Hard Carrying Case, 4 x AA Batteries 1.5 V Alkaline, Users Manual


ABM100

ANEMOMETER

The ABM100 Airflow Balancing Meter is an anemometer that fits in your pocket.

You can download the free app and plug in your ABM100 meter. Enter the grille or duct dimensions and then hold it up to a grille or duct opening, your phone does the rest. By using a series of algorithms the ABM automatically calculates the airflow volume. The ABM100 also provides the ability to automatically adjust the free space calculation if a grille is present. It has the ability to add comments with each reading if desired.

- Compatible with iPhone, iPad, iPod, and all major Android devices
- Measures airflow in:, Linear Feet Per Minute, Cubic Feet Per Minute, Cubic Meters Per Hour, Linear Meters Per Second
- Accurate to ± 0.5% of the reading at up to 15° off-axis
- Range is from 160 FPM (1 m/s) to 11,000 FPM (56 m/s)
- Resolution is .19 FPM (0.001 m/s)
- Rugged and eco-friendly packaging that serves as a reusable storage case
- Sends onsite professional reports by email

Part No.	Description
ABM100	Airflow Balancing Meter, Smart Phone Compatible


ABM200

AIR FLOW AND ENVIRONMENTAL METER

The ABM200 has all of the features of the ABM100 plus it is wireless and also has temperature,humidity, and pressure sensors. These additional sensors give the meter the ability to accurately measure and record: temperature differential, dry bulb temperature, wet bulb temperature, heat index, relative humidity, dew point, barometric pressure, air density, indoor vs. outdoor conditions, wind speed/direction/gusts. Can be attached to EXP64 64" aluminum extension pole (sold separately) to take readings without having to go up a ladder. Connects smartphones and tablets utilizing Bluetooth Smart technology. Compatible with Apple iPhones 4S or newer and iPads Generation 3 or newer. All Bluetooth Smart compatible Android phones and tablets with operating system 4.3 or newer.

Part No.	Description
ABM200	Air Flow and Environmental Meter, Wireless, Bluetooth Smart Connection
EXP64	Extra long reinforced 18-64" extension pole with rugged grip and 1/4" 20 universal mount for use with ABM200


AAV3

THERMOANEMOMETER

Measures air velocity. Use to estimate CFM. Does not replace a hood for precision CFM measurements.

- Ft./min., meters/sec., MPH, KM/hr
- Displays °F and °C
- Output: 1mV/unit of measure (1mV/100 ft./min. above 2000 fpm)
- Use with EHDL1 handle or HS35 multimeter

Part No.	Includes
AAV3	Air Velocity and Temperature Accessory AAV3, 9V Alkaline Battery (installed), Operator's Manual


4102

THERMOANEMOMETER

Designed to measure air flow velocity up to 4000 fpm plus temperature and humidity with integrated 1.5" vane

- Timed mean value calculation
- Hold function and max./min. values
- Windchill calculation for outside areas (perceived temperature)
- Back lit display

Part No.	Includes
4102	testo 410-2 vane anemometer, protective cap, batteries, belt pouch, wrist strap


410I

SMART AND WIRELESS VANE ANEMOMETER PROBE

- Measures air velocity, volume flow, and temperature as well as air flow at registers and automatically calculates volume flow (enter duct dimensions simply)
- No air density correction required due to design
- Measure volume flow at several outlets simultaneously (using mutiple Smart Probes) to adjust system balance
- Timed/multipoint averaging to get accurate air flow profiles

Part No.	Includes
410I	testo 410i, Bluetooth vane anemometer with App, incl. 3 AAA batteries and certificate of calibration


DDM55

DIGITAL MANOMETER

Isolate difficult pressure problems in natural gas and propane systems.

- Dual input-differential measurements
- Range: -55.0 to +55.0" w.c.
- Resolution to 0.01"
- 11 Units of Measure; (in, ft, cm) w.c., (in, mm) HG, bar, Mbar, kPa, psi, ozin, Kgcm
- Data hold
- Auto off
- 9V battery included

Part No.	Includes
DDM55	Manometer, Soft Carrying Case, Flexible Tubing, 1/8 in. MPT X 1/8 in. Barb Access Fitting


JL3KM2

DUAL PORT MANOMETER

The revolutionary JL3KM2 Job Link® System Manometer probes give HVAC/R pros the freedom to work the way they want to, unrestricted by hoses, so technicians get readings from optimal locations on every system, every time. Short hose length keeps things neat, and independent sensors allow for direct placement on test ports. Measure between zones without snaking a hose past the door. Dial in gas pressure of a furnace. Optimize total external static pressure of equipment. Pinpoint duct leaks and restrictions. Increase comfort and do more. Unlike traditional dual port manometers, Fieldpiece's revolutionary untethered design lets contractors place each probe independently in exact locations, to see up to 8 reliable pressure readings at once, all fed directly into the Fieldpiece Job Link app for maximum convenience. Measure and view real-time return static, supply static, and total external static pressure all at once from up to 350' away. Get single, dual or multiport measurements with the freedom to work the way technician like, from anywhere on the job site. They now have the versatility they've always needed.

Part No.	Includes
JL3KM2	Dual Port Manometer/Pressure Switch Tester, Four Pocket Carrying Case (ANC1), Static Pressure Probes (ASP2s), Pressure Tubes (RMA316), Quick Connect Leads, Hoses and Y-splitter, Hoses with Brass Screw Fittings

GAS/AIR FLOW TESTING


SDMN5

DUAL PORT DIGITAL MANOMETER

Measures gas pressure, static pressure, differential pressure

- Measures: in and mm w.c, mBar, and PSI
- Range: -60.0 to +60.0 in w.c.
- Accuracy: ±1.5% full scale
- Resolution: 0.01 in w.c.
- Min/max, hold and auto off
- Hoses included

Additional features for SDMN6

- Also measures pressure switches
- Easily calibrate any adjustable pressure switch
- Great for diagnosing furnace performance

Fieldpiece

Part No.	Includes
SDMN5	Dual-Port Manometer, (2) 3/16" Tubes with Brass Fittings, (2) 3/16" to 5/16" Tube Adapters (RMA316)
SDMN6[1]	Dual Port Manometer and Pressure Switch Tester; Four Pocket Carrying Case; Static Pressure Probes; Pressure Tubes; Quick Connect Leads; Hoses and Y-splitter; Hoses with Brass Screw Fittings

[1] Also measures pressure switches


510I

MANOMETER SMART AND WIRELESS PROBE

- Differential pressure (manometer) measures static pressure, air flow, and volume flow (with Pitot tube not incl.)
- Measures manifold pressure and pressure drop across filters and coils and has measurement menu in App that includes pressure drop alarms
- Easy configuration and calculations for volume flow (enter pitot tube factor and dimensions easily)
- Magnetic back holds instrument for hands-free operation

Users can read the measurements using the testo Smart Probes App installed on their smart device. It can be used for determining air velocity and volume flow when used with Pitot tubes (not included). The testo 510i works on smart devices with either Android or Apple operating systems.

testo

Part No.	Includes
510I	testo 510i, Bluetooth differential pressure probe with App, incl. hose set (diameter 0.15 in and 0.2 in) with adapter, 3 AAA batteries and certificate of calibration


0510

DIGITAL MANOMETER

Differential pressure meter includes protective cap, batteries, belt holder, calibration protocol, and hoses.

- Display in Pascal optional over entire measurement range (0 to 40.15" HO)
- Temperature compensation
- Switchable units: hPa, mbar, Pa mmHO, mmHg, inHO, inHg, psi, m/s, fpm
- Flow velocity measurement with Pitot tube (Pitot tube optional)
- Air density compensation

testo

Part No.	Includes
0510	testo 510, belt pouch, 2 hoses, wrist strap, certificate of conformity


78077

GAS LEAK GAUGE

Easy-to-read gauge to test system pressure for leaks in new installations. Pressure drop on gauge indicates leakage. 0 to 30 gauge is in 1/4 lb. increments and 0-15 is in 1/5 lb increments to meet some local inspection regulations.

YELLOW JACKET

Part No.	Scale Range	Minor Divisions	Description
78077*	0 to 15 psi	1/4 lb.	Gas leak gauge, 0 to 15 psi, 1/4 lb minor division
78080*	0 to 30 psi	1/5 lb	Gas leak gauge, 0 to 30 psi, 1/5 lb minor division

TUBE MANOMETER


122212WM

U-TUBE MANOMETER

Measures positive, negative and differential pressures. Columns are constructed of flexible butyrate tubing.

Dwyer

Part No.	Range (H2O)	Includes
122212WM	-6 to 0 to 6	Manometer and tubing, fluorescein green dye concentrate, magnetic clips for vertical mounting on steel surface

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


1211-30

SLACK-TUBE® MANOMETER

As accurate as the finest laboratory U gauges, yet it is made to roll up compactly for easy carrying and to withstand rough usage.
Use it in determining velocity and static pressures, for leakage, fan and blower tests, calibrating control devices, checking gas pressure and many other applications.

Part No.	Range (H2O)	Includes
1211-30	15"—0—15	Manometer and tubing


78075

PLASTIC TUBE MANOMETER

Economical plastic tube manometer helps you set manifold pressure for natural or L.P. gas. Now goes to -2" w.c. for newer systems. Strong magnet on manometer holds it in convenient upright position. Includes tubing with fitting.

Part No.	Includes	Scale Range
78075*	Tube with fitting	-2 to 0 to 15" w.c.

RPM METER


0460

ELECTRONIC

Optically measures rpm with LED sighting and displays readings on a large backlit display. It features a convenient max/min function and is ideal for use with ventilators and shafts. Includes protective cap, batteries and calibration certificate

- Measurement range: 100 to 29,999 rpm; reads RPM, RPS
- Accuracy: ±(0.02% + 1 digit)
- Resolution:
- 0.1 rpm (100 to 999.9 rpm)
- 1 rpm (1000 to 29,999 rpm)

Part No.	Includes
0460	testo 460 tachometer, reflective markers, protective cap, calibration certificate, belt bag, and batteries

PRESSURE GAUGE


TL20160

1/4" BOTTOM CONNECTION

- Drawn steel case, finished in black with push-in polycarbonate window
- Movement: All brass construction, precision gear and pinion, mounted on socket independent of case
- Accuracy: 2% of the middle third of the entire range. ANSI-ASME B40.1 grade B

Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)
TL20160*	2	0 to 160	5
TL20300*	2	0 to 300	5
TL25030*	2 1/2	0 to 30	0.5
TL25V150*	2 1/2	30" - 0 - 150	5" / 2 psi
TL25VAC*	2 1/2	30" - 0	5"


20030PG

1/4" BOTTOM CONNECTION

Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)
20030PG*	2	0 to 30	0.5
20060PG*	2	0 to 60	1
20100PG*	2	0 to 100	2
20200PG*	2	0 to 200	5
25060PG*	2 1/2	0 to 60	1
25100PG*	2 1/2	0 to 100	2
25160PG*	2 1/2	0 to 160	5
25200PG*	2 1/2	0 to 200	5
25300PG*	2 1/2	0 to 300	5
35100PG*	3 1/2	0 to 100	2
35160PG*	3 1/2	0 to 160	5
45060PG*	4 1/2	0 to 60	1
45100PG*	4 1/2	0 to 100	2


4CTA200

4 1/2" CASE BACK FLANGE

- Dial diameter: 4 1/2"
- Movement: Brass construction, for pressure ranges to 600psi
- Connection: 1/4" NPT bottom
- Back flange
- Accuracy: 1% of middle half, 2% remainder. ANSI B40.1 grade A

Part No.	Pressure Range (psi)	Graduation (Psi)
4CTA200*	0 to 200	2

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PRESSURE GAUGE



4CTS060

4 1/2" CASE STANDARD

- Dial diameter: 4 1/2"
- Movement: All brass construction, precision gear and pinion, mounted on socket independent of case
- Connection: 1/4" NPT bottom
- Accuracy: 1% of middle half, 2% remainder. ANSI B40.1 grade A

Part No.	Pressure Range (psi)	Graduation (Psi)
4CTS060*	0 to 60	1
4CTS100*	0 to 100	1



LF25S1U

REFRIGERATION, LIQUID FILLED

- 2 1/2" type 304 stainless steel case with polished steel crimped ring
- Movement: Brass
- Accuracy: ±2% of span per ANSI B40.1, grade B
- Back connection: 1/4" NPT

Part No.	Pressure Range (psi)	Graduation (Psi)	Mounting Code	Case Size (In.)
LF25S1U*	0 to 600	10	Stem	2 1/2
LF25S1*	0 to 30	1	Stem	2 1/2
LF25S1FV150*	30" - 0 - 150	5" / 5	Front Flange	2 1/2



4RG150

4 1/2" CASE TURRET

- Dial diameter: 4 1/2"
- Movement: Bronze brushed rotary
- Phenolic case
- Connection: 1/4" stem
- Turret/back mount
- Compound type
- Accuracy: 1%

Part No.	Pressure Range (psi)	Graduation (Psi)
4RG150*	30" - 0 - 150	5" / 5
4RG300*	30" - 0 - 300	5" / 5



MG25150

AMMONIA

- Movement: Stainless steel rotary
- Black steel case
- For ammonia service
- Connection: 1/4" bottom
- Accuracy: ANSI grade B, 2% middle scale

Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)
MG25150*	2 1/2	30" - 0 - 150	5" / 5
MG25300*	2 1/2	30" - 0 - 300	5" / 5
MG35150*	3 1/2	30" - 0 - 150	5" / 5
MG35300*	3 1/2	30 " - 0 - 300	5" / 5



4MG300

AMMONIA

- Phenolic case
- Movement: Stainless steel rotary
- For ammonia service
- Connection: 1/4" bottom

Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)
4MG300*	4 1/2	30" - 0 - 300	5" / 5



CTP25R

ALTITUDE, TEMPERATURE

The Weiss Tri-O-Meter is designed for use on all types of hot water heating systems. One instrument reads out the water pressure, water temperature, and system head in feet of water.

- Pressure in psi and feet of HO
- Case and ring: Gray enameled steel with acrylic window
- Accuracy: Pressure/altitude ±2% of span in middle half of range, ±3% of span elsewhere. Temperature ±3% of span over entire range

			Connection			
Part No.	Dial Size (In.)	Length (In.)	Size (In.)	Type	Pressure Range (psi)	Tempera-ture (°F)
CTP25R*[1]	2 1/2	3.77	1/4 NPT	Back	0 to 75	60-260
CTP25RX*[1]	2 1/2	4.82	1/4 NPT	Back	0 to 75	60-260

[1] Psi and Ft of HO

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PORTABLE REFRIGERANT RECOVERY UNIT



F6BOOST

BLDC IGNITION-PROOF REFRIGERANT RECOVERY UNIT

BLDC Ignition-Proof Refrigerant Recovery Unit

- Dual voltage (100-240VAC 50/60Hz)
- Powerful 1.25 HP BLDC (Brushless DC) motor-driven oilless compressor
- Ignition-proof design tested and approved to ISA 12.12.01:2016 Ed.7
- High air-flow fan with a micro-channel condenser keeps the unit running cool
- Variable speed motor (based on load)
- 2-piece, oilless piston seal design with long-lasting, durable elastomer, easy-to-replace piston seals
- Non-pressurized vented crank case (prevents refrigerant from damaging bearings or seals)
- Built in purge functionality (self clearing or pump down) to prevent cross contamination
- High pressure 550 PSIG cutout switch
- Easy-to-use interface with 2-1/4" high/low gauges
- Auto shut-off when recovery is complete

		Capacity (Lbs/ Min)	
Part No.	**HP**	**Direct Liquid**	**Description**
F6BOOST*	1.25	12.40	Ignition-Proof Refrigerant Recovery Unit



G5TWIN

TWIN CYLINDER, OIL-LESS

- Horizontally opposing twin cylinders and twin condensers for ultra fast recovery
- 7 inch 10 blade turbine fan 3000 rpm blasts 600 cfm of cooling air over the twin heads and condensers
- Pumps vapor and liquid without throttling
- Operates up to 50 degrees cooler for maximum reliability and speed even in high ambient conditions
- 550 psi cut-out for use with all R410A systems
- Heavy duty 1/2 HP motor, high torque, ball bearing
- UL certified per ARI Standard 740-98

			Capacity (Lbs/Min)	
Part No.	**HP**	**Recovery Rates**	**Direct Liquid**	**Vapor**
G5TWIN*	1/2	R22	6.22	0.62



G1SINGLE

SINGLE CYLINDER, OIL-LESS

- Refrigerant-isolated crankcase eliminates bearing contamination
- Solid-mounted pistons eliminate wrist pins and bushing wear
- 7-inch, 10-blade turbine fan blasting 600CFM of cooling air
- 550 psi high pressure shut off for R410A
- Pumps direct liquid and vapor
- Simple, easy-to-use design; no purge cycle required
- Pumps virgin refrigerant; no oil required
- Heavy duty 1/2 HP motor
- Field serviceable: completely rebuilt in the field in 20-30 minutes
- UL certified per ARI Standard 740-98 Recovery rates in the table are for R22.

			Capacity (Lbs/Min)	
Part No.	**HP**	**Recovery Rates**	**Direct Liquid**	**Vapor**
G1SINGLE*	1/2	R22	8.54	0.26



714202G1

VORTEX® DUAL, OIL-LESS

- 1 HP dual piston compressor provides industry leading recovery rates
- Micro-channel condenser provides exceptional heat exchange allowing Vortex Dual to maintain recovery rates throughout the entire recovery cycle
- Oversize fan provides exceptional cooling
- Simple two valve operation
- Full size protected gauges for both suction and tank pressure
- Self-purge without the need to change hoses
- Filter / dryer included
- Noise absorbing blow molded case
- Three-year over-the-counter replacement warranty

			Capacity (Lbs/Min)		
Part No.	**HP**	**Recovery Rates**	**Direct Liquid**	**Push Pull Liquid**	**Vapor**
714202G1	1	R134a R22 R410A	4.03 5.98 3.55	11.64 11.00 17.39	0.42 0.53 0.55

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PORTABLE REFRIGERANT RECOVERY UNIT



MR45

DIGITAL RECOVERY MACHINE

Recovery machine with onboard system monitoring that adjusts motor performance to handle liquid and run twice as fast on vapor. MR45 also steps up low voltage at the power plug to deliver full power to the motor where high voltage drop is a problem. With a powerful 1HP motor and super-sized condenser, this machine excels on longer and hotter jobs. The easy-to-read display, lightweight , straight hose connection ports, and single dial make this machine user-friendly while being tough enough for everyday use, even in the rain.

		Capacity (Lbs/Min)
Part No.	HP	Direct Liquid
MR45	1	4.70 2.90 5.10 5.60

REFRIGERANT RECOVERY ACCESSORIES


MT69

REFRIGERANT MOLECULAR TRANSFORMATOR

The MT69 transforms molecules of hot refrigerant gas into molecules of refrigerated liquid. It also transforms molecules of cold refrigerant liquid into a warm refrigerant gas.

- Up to 95% increase in recovery speed
- Actual time to recover 15 Lbs of R22 at 120°F is 17 minutes with MT69 vs 32 minutes without MT69
- Dimensions: 9 1/4" H x 4 1/4" Diameter
- The hotter it gets, the better it works
- Eliminates the need to change tanks when recovering R410A
- Eliminates annoying shutdown due to high pressure switch limit
- Essential for recovering R410A on hot days
- Essential for recovering liquid refrigerant on cold days

		Dimensions (In.)		
Part No.	Description	W	H	Diameter (In.)
MT69	Refrigerant Molecular Transformator, decreases recovery time	5.91	5.98	4.25



RECOVERY CYLINDER

STANDARD RECOVERY CYLINDER

All NRP recovery cylinders meet ARI guidelines and DOT specifications.

It is very important to evacuate the recovery cylinders and purge the hoses to avoid introducing non-condensables in cylinders which would increase the discharge pressure. Also, a separate cylinder must be used for each type of refrigerant to avoid cross contamination.

Caution: for safety reasons it is very important to fill all cylinders by weight in accordance with the cylinder supplier's instructions and ARI guidelines.

- Do not overfill cylinders. Do not fill to more than 80% of the cylinder's rated capacity.
- Do not mix different refrigerants in one cylinder. Mixtures cannot be separated.
- Always wear rubber gloves and safety goggles when transferring refrigerant.
- Always use cylinders approved for recovery.
- Cylinder for use with R410A must be DOT spec 4BA400.
- NC30, NC30U, NC50, NC50U are approved for R410A.

Standard cylinders for use with R11, R12, R22, R113, R114, R134a, R500, R502 and Blends

Very high pressure cylinders for use with R13, R23, and R503



NC30

STANDARD RECOVERY CYLINDER

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Max. Pressure (Psi)	Nb. of Valves	Ship Wgt (Lbs.)
NC30	30	26.2	400	One 2 Port	16.00
NC30U[1]	30	26.2	400	One 2 Port	17.00
NC50	50	47.7	400	One 2 Port	28.00
NC50U[1]	50	47.7	400	One 2 Port	29.00
NC100[2]	125	122.0	300	One 2 Port	51.00
NC240[2]	240	240.0	250	Two 1 Port	80.00
NC240U[3]	240	240.0	250	Two 1 Port	81.00
NC1000[4]	1000	1000.0	260	Two 1 Port	391.00

[1] With float switch [2] Available in 400 Lb. pressure [3] With float switch. Available in 400 Lb. pressure. [4] With float gauge. Available in 400 Lb. pressure.



N665T

R11 LARGE RECOVERY CYLINDER

Models N250T and N665T are supplied with protective collars (top and bottom), 0-100 PSIG gauge, pressure relief valve, sight glass 1/3 and 2/3 levels, non-condensable purge tap, float switch.

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Max. Pressure (Psi)	Nb. of Valves	Use with	Ship Wgt (Lbs.)
N665T	665	665.0	200	Two 1 Port	VR11	265.00



NC23

VERY HIGH PRESSURE RECOVERY CYLINDER

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Nb. of Valves	Use with	Ship Wgt (Lbs.)
NC23	28	23.8	One 1 Port	R13, R23, R503 - LP13, VR13	43.00
NC80	106	89.0	One 1 Port	R13, R23, R503 - LP13, VR13	113.00

VACUUM PUMP



DV240DC

PLATINUM PRO 8.4 CFM DUAL VOLTAGE DC VACUUM PUMP

- A2L Compatible
- 1/2 HP DC motor with broad operating voltage range
- Dual-voltage 115/230V DC motor with sliding voltage switch
- Angled easy access 1/4", 3/8" or 1/2" intake tee
- Ergonomic 1/2" NPT handle and lift ring for easier hoisting
- Check oil level at any time with LED back-lit sight glass
- IEC 10' Locking Cord
- One-shot, full quart oil fill - Integrated bottle seal piercing spike for quick oil changes
- Drains oil 3x faster with 1/4 turn ball valve drain
- Blank-off isolation valve isolates the pump from the system
- Gas ballast for extended oil life
- Wide, four point stable base for better balance with cap storage
- 100% Factory Tested
- Premium all metal construction with heavy-duty finned aluminum housing, American-manufactured brass fittings and stainless steel valving
- 100% Field Repairable

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
DV240DC	8.4	1/2, 1/4, 3/8	32 Oz	1/2	115	24.00
DV285DC*	10	1/2, 1/4, 3/8	32 Oz	1/2	115/230	24.00



294121

M18 FUEL™ 5 CFM VACUUM PUMP KIT

Our M18 FUEL™ 5 CFM Vacuum Pump eliminates the hassle of cords and provides instant power for fast evacuations. Powered by M18™ REDLITHIUM™, this pump delivers the runtime to complete multiple jobs on one charge. With the innovation of manifold mode, the M18 FUEL™ 5 CFM Vacuum Pump allows you to maximize your speed and runtime in manifold setups, enabling up to 90 minutes of runtime per charge. Our vacuum pump features a POWERSTATE™ Brushless Motor to enable corded speed during system pulldowns. The pump's 1/2", 3/8", and ¼" port offerings deliver fast evacuations, especially when used with large hoses. The M18 FUEL™ 5 CFM Vacuum Pump is equipped with REDLINK PLUS™ Intelligence to ensure maximum performance and protection from overload.

Part No.	CFM	Oil Capacity	Voltage	Ship Wgt (Lbs.)
294121	5	18.6 Oz.	18	19.00



0564565201

TESTO 565I - SMART VACUUM PUMP

The testo 565i makes evacuations incredibly easy. Thanks to smart technology and the connection to the testo 552i vacum probe, the 565i automatically stops evacuation once the desired target value is reached and initiates a vacuum hold test automatically. This means that the entire process takes place all by itself. The testo 565i has also proven its worth thanks to its high quality, which ensures that it can even be used safely with flammable class A2L and A3 refrigerants.

Part No.	CFM	Intake MFL (In.)	Oil Capacity	Voltage	Ship Wgt (Lbs.)
0564565201	7	1/4" & 3/8" & 1/2" SAE	ISO VG 46	120	25.00
0564565301	10	1/4" & 3/8" & 1/2" SAE	ISO VG 46	120	27.00


GVP3

GLOBESAVER™

- Dual intake connections
- Voltage: GVP6, GVP12 115/220V; GVP3 115V only
- Ergonomic sure-grip handle

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	RPM	Voltage	Stages	Ship Wgt (Lbs.)
GVP3*	3	1/4 x 3/8	14 Oz.	1/4	1720 60 Hz	115	2	26.00
GVP3H*[1]	3	1/4 x 3/8	14 Oz.	1/4	1720 60 Hz	115	2	31.50
GVP6*	6	1/4 x 3/8	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	115/220	2	31.50
GVP6H*[1]	6	1/4 x 3/8	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	115/220	2	31.50
GVP12*	12	3/8 x 1/2	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	115/220	2	48.50
GVP12H*[1]	12	3/8 x 1/2	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	115/220	2	31.50

[1] with hose


TEZ8

TEZ8

- Three intake connections
- Power: 115 VAC, 60 Hz, 10 Amps
- 5-second oil change™
- Use TEZOM™ oil cartridges only
- High speed turbine fan keeps pump and oil cool
- Exhaust system vents moisture remotely (standard garden hose connection) without breaking vacuum
- Wide, low stance prevents accidental tipping

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
TEZ8*	8	1/4, 3/8, 1/2	7.6 Oz.	1/2	115	28.00


DV-6E

ELIMINATOR™

- Tested to 25 microns ensuring a deep vacuum
- 115 V - 1/2 HP motor
- 2 stage direct drive

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
DV-6E*	6	1/4 x 3/8	25	1/2	115	15.00


DV142FLEX

PLATINUM® FLEX VACUUM PUMP

- Powered by JB's 18v lithium-ion battery
- 1/2 HP DC brushless motor
- Available in 3 CFM or 5 CFM
- Low battery warning
- Easy access 1/4", 3/8" or 1/2" intake tee
- Ergonomic 1/2" NPT exhaust handle with lift ring
- Large, easy-to-see oil level sight glass with easy access oil fill located on cover
- O-ring sealed oil drain valve to prevent leaks and tethered safety cap to prevent oil spills
- Internal check valve prevents oil backflow during power failure
- Field repairable
- 1 year OTC warranty; 2 year on vacuum pump
- 15 micron vacuum rating
- Gas ballast and blank-off isolation valve
- Metal construction with finned aluminum heavy-duty housing, brass fittings, and stainless steel valving

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
DV142FLEX*	5	1/2, 1/4, 3/8	22 Oz.	1/2	115	36.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VACUUM PUMP


DV85N

PLATINUM®

- 115 V motor
- 2 stage direct drive
- Integral blank off isolation valve
- 1/2 HP motor

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
DV85N*	3	1/4, 3/8	26 Oz.	1/2	115	30.00
DV142N*	5	1/2, 1/4, 3/8	21 Oz.	1/2	115	32.00
DV200*	7	1/2, 1/4, 3/8	21 Oz.	1/2	115	32.70
DV285N*	10	1/2, 1/4, 3/8	26 Oz.	1/2	115	35.00
DV340N*	12	1/2, 1/4, 3/8	32 Oz.	1	115/230	34.00


93600

BULLET™

- Pulls down to 25 microns or better
- 2 stage rotary vane pump
- 1/4" x 3/8" x 3/8" intake
- Voltage: 115 Vac

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	RPM	Voltage	Stages	Ship Wgt (Lbs.)
93600*	7	1/4" x 3/8" x 3/8"	28 Oz.	1/2	1725	115	2	36.30


93790

SUPEREVAC PLUS LL VACUUM PUMP

- Designed for use with A2L systems
- Isolation valve for oil changes without losing vacuum in the system
- Gas ballast valve keeps oil cleaner, longer during evacuation
- Internal intake check valve to help prevent oil backup into the system and to maintain vacuum during a power failure
- Intake filter screen keeps damaging particles from entering the pump
- Heavy duty rotors and bearings
- Built-in vacuum gauge
- Wide mouth oil reservoir port for easier, cleaner filling. Doubles as a pump exhaust – threaded to attach a garden hose for exhausting to a remote location.
- Large brass oil drain for easy access to fast oil changes
- Downward angled oil sump to remove contaminants usually trapped in other pump designs
- Non-sparking switch for A2L compliance
- Locking, low-profile IEC connector with 9'10" (3 meter) power cord to prevent accidental removal

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	Voltage	Ship Wgt (Lbs.)
93790*	11	1/2, 3/8, 1/4	28 Oz.	1/2	120	28.40

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


VP87

RUNQUICK™ VACUUM PUMP

- Durable, sturdy pumps with a strong base and a small footprint that eliminate spills. Easy to use hose valve ports that keep hoses in line and easy to work around
- RunQuick™ Oil Change System allows oil changes on the fly – no need to turn off the pump and you won't lose vacuum.
- Massive back-lit oil reservoir lets you clearly see the condition of the oil and the operation of the system and new removable window for cleaning.
- ? HP DC motor
- Patented lightest weight pump
- RunQuick™ Oil Change System offers on-the-fly oil changes in seconds
- Backlit oil reservoir – allows you to view the condition of your oil and system
- Extra oil bottle storage

Part No.	CFM	Intake MFL (In.)	Oil Capacity	HP	RPM	Voltage	Ship Wgt (Lbs.)
VP87	8	1/4, 3/8, 3/8, 1/2	8 Oz.	3/4	2500	120	28.00
VPX7	10	1/4, 3/8, 3/8, 1/2	8 Oz.	3/4	2500	120	28.20


VPS6DU

PRO-SET®

- Designed and tested to meet ANSI 12:12.01 Ignition Proof standards
- For use on refrigeration systems utilizing: Class A1 (nontoxic, nonflammable), Class A2L (non-toxic, low flammability), Class A2 (nontoxic, flammable), and Class A3 (nontoxic, flammable) and Ammonia (NH3)
- Air-cooled, thermally protected motors encased in a durable aluminum housing
- Oil filled rotary vacuum pump cartridge construction
- Combination oil fill/exhaust port utilizes CPS exclusive oil mist free exhaust cap
- Large double-sealed oil sight glass
- Sealed start relay

Part No.	CFM	Oil Capacity	HP	Voltage	Stages	Ship Wgt (Lbs.)
VPS6DU[1]	6	16 Oz	1/2 @ 3440 RPM	115	2	30.00
VPS12DU[1]	12	27 Oz	1 @ 3440 RPM	115	2	30.00
[1] Power Connection to Pump: 10' Hard wired						


1402B46

BELT DRIVE PUMP

The pump of choice for large chiller services. Low RPM for longer service life. Large oil reservoir dilutes contaminants. Gas ballast for high vapor loads. Handles salt laden water vapor and accidental salt ingestion in lithium bromide absorption systems.

Part No.	CFM	HP	RPM	Voltage	Ship Wgt (Lbs.)
1402B46	5.6	1/2	525	115	112.00
1376B46	10.6	1	525	115/230	156.00
1397B01	17.7	1	400	115	205.00


TZMGLN

ULTIMATE DEEP SEAL VACUUM PUMP OIL GALLON

- Laboratory-Grade Synthetic Blend improves performance and protection for internal components
- Ultra-low vapor pressure oil (<1 micron) for superior vacuum sealing performance
- Faster evacuation of systems that use POE oil (including R-410A and R-454B)
- Engineered to keep ambient moisture out

Part No.	Oil Capacity	Description	Ship Wgt (Lbs.)
TZMGLN	1 Gallon	TEZ8 Oil	6.00
TZM1PK	8 Oz.	TEZ8 Oil Cartridge	0.50

VACUUM ACCESSORY


1407K11

VACUUM PUMP OIL

Welch

Part No.	Description	Container Size
1407K11	Vacuum Pump Oil	1 Quart
1407K15	Vacuum Pump Oil	1 Gallon


93860

VACUUM MANIFOLD

SuperEvac 1/2" manifolds are engineered as system components for the SuperEvac pumps to help decrease vacuum time by over 50% and improve micron readings. Mounts with 1/2" female flare quick coupler and provides easy connections for two 3/8" vacuum hoses.

- Includes step down adapter to connect to 3/8" pump intake

YELLOW JACKET

Part No.	Description	Ship Wgt (Lbs.)
93860*	Evacuation manifold, 2 valve, SuperEvac, 1/2", (3/8" stepdown adapter)	2.15

VACUUM GAUGE


DV22

GAUGE

- Extended range MEMS sensor
- Easy-to-read backlit display
- Improved response time for instantaneous vacuum reading
- Allows for direct connection to the A/C unit without a hose
- Audible and visual alarms when target vacuum level is achieved
- Intuitive user menu with custom setting options
- Low battery indicator with automatic shutoff
- Measures in Microns, PSIA, inHg, Pascals, Torr, mTorr and mBar

Part No.	Power	Includes
DV22*	AA Batteries	Vacuum Guage, Hook, 1/4" SAE Female Flare Fitting


DV22W

CLIMATE CLASS WIRELESS DIGITAL VACUUM GAUGE

Experience enhanced job productivity and accuracy with the CLIMATE CLASS DV-22W. Wireless connectivity allows you to monitor and document system evacuations, and a rotating OLED screen provides visibility from any angle.

- Field-replaceable sensor prolongs tool life and reading accuracy
- Direct access to sensor for easy and thorough cleaning of oil and contaminants
- Ten (10) included sensor filters provide an additional layer of protection
- Large OLED display rotates 360° making it easy-to-read at any angle
- Fast reacting and extremely accurate at any elevation with easy field calibration to barometric pressure
- IP54 rated for dust particles and rain
- Flexibility to use in standalone mode or with the JB GO V2 app
- Operates with two AA batteries (included)

Part No.	Power	Includes
DV22W	AA Batteries	Wireless Micron Gauge with Replaceable Sensor, (2) Batteries, (10) Sensor filters


CC2CHP

CLIMATE CLASS WIRELESS TOOL KIT

CLIMATE CLASS kits are equipped with essential tools for technicians to effortlessly capture comprehensive system snapshots. All sets come with a protective storage bag.

- Featuring a digital integrated displays, these versatile tools provide accurate, real-time measurements, plus the convenience of wireless connectivity through the JB GO V2 or measureQuick apps.
- Bright OLED display
- Flexibility to use in standalone mode or with the JB GO V2 or measureQuick apps
- Over-molded parts for increased grip and durability
- Intuitive, simple-to-use menu
- IP54 rated for dust particles and rain
- Operates with two AA batteries (included)

Part No.	Power	Includes
CC2CHP	AA Batteries	2 Wireless Psychrometers, 2 Wireless Pressure Probes, 2 Wireless Temperature Clamps and a Protective Zippered Tool Bag

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


PILOT

GAUGE

- Reads from atmosphere down to 1 micron
- Innovative filter protects sensor from contaminants
- Quick calibration equalizes to local pressure for greater accuracy
- 1 year replacement warranty

INFICON

Part No.	Power	Includes
PILOT	9V Battery	Pilot Plus Micron Gauge, 9V battery, filters, storage case


VG64

GAUGE

A durable self-contained battery powered vacuum gauge which displays the level of vacuum on a LED color coded read out. The unique design of the VG64 allows for in-line connection through the system or directly at the vacuum pump.

- Power: (1) 9V battery (not included)

Supco

Part No.	Power	Includes
VG64	9V Battery	Dual Port Wireless Vacuum Gauge, Vacuum Coupler


69075

GAUGE

Yellow Jacket LCD vacuum gauges combine thermocouple sensor technology with advanced IC electronics for precise readings and repeatability not found with thermistor sensors or analog meters.

- No adjustments or warm-up. Stays calibrated after on/off switching and long evacuations
- Power: 1 D cell battery

YELLOW JACKET

Part No.	Description	Power
69075*	Vacuum gauge, digital, 1µ to 1 ATM, 1 "D" cell battery	1 D Cell Battery
69073*	Replacement sensor for digital vacuum gauge 69075	--


552

DIGITAL GAUGE, WITH BLUETOOTH

The testo 552 is the only digital vacuum measuring instrument whose absolute pressure sensor, in contrast to other sensor technologies, no longer needs to be serviced, and still provides highly accurate measurement results. Its robust construction makes it suitable for daily use, and protects from dirt and water.

- Highly accurate and reliable measurement results
- Measurement of evaporation temperature H2O
- Optical alarm when limit values are exceeded
- Extremely robust and resistant to water and dirt (IP42)
- The new testo 552 with Bluetooth links to your smart phone or device

testo

Part No.	Power	Includes
552	AA Batteries	Guage; 2 x 1/4" SAE (7/16" UNF) 1 x mini - DIN (connection to testo 570)


VG200

VACROMETER™

Advanced measurement instrument providing continual digital readout of evacuation process on large 5 digit LCD. Measurement units are user selectable to read in Microns,Torr, in/hg or mBar at the touch of a key. Advanced surface mount technology automatically compensates for ambient changes in the environment ensuring accuracy and consistency in performance. Advanced field-cleanable sensor is able to withstand 400 PSI of positive pressure. Unit operates 30 hours on 9V alkaline battery with low battery indicator and auto off feature. Includes carrying case, hanging hook, AVT45, 9V battery and is CE approved.

- Standard 1/4" female SAE refrigerant hose type with core depressor.
- Self - heated thermistor bridge with integral temperature compensation from 32 to 122°F.

cps

Part No.	Power	Includes
VG200	9V Alkaline Battery	Digital Vacuum Gauge, Gauge Hook, Adapter "T-fitting", Padded Vinyl Case

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MANIFOLD


SPDKIT-V

MEGAFLOW™ SPEEDKIT-V

Features and Benefits

- Maximize the Flow of ANY Vacuum Pump - Works on all vacuum pump with 3/8in MFL and 1/2in MFL fittings
- Up to 16x Greater Flow when compared to evacuation with a manifold
- Fast and Simple - Simple setup, Fast evacuation, Reduced job times
- Vacuum-Rated Components - Tools that do not leak in a deep vacuum
- Full Flow - No flow restrictions across the whole setup
- Ultra-Flexible Large Diameter Hoses - Get into tight spaces and significantly reduce evacuation times
- Upgradable to ? 12CFM of flow with the addition of (2) MGABAS/MGABRO
- Toolbag Included - Quickly organize and efficiently carry tools

Part No.	Description	Includes
SPDKIT-V*	MegaFlow Vacuum Speed Kit	(2) MegaFlow 1/2in Hose - 6 ft (3/8FL to 1/4FL) Black, (2) MegaFlow Valve Core Removal Tool - 1/4in, (2) MegaFlow Valve Core Removal Tool - 5/16in, SpeedY 3/8in, SpeedY 1/2in, MegaFlow SpeedKit Carry Bag


SPDKIT-R

MEGAFLOW™ SPEEDKIT-R RECOVERY SPEED KIT

- Manifold-less recovery
- Fast and Simple - Reduced connections, Simple setup, Fast recovery, Reduced job times
- Works with ANY Recovery Machine - Make your exsisting recovery machine faster than ever
- Designed for High Pressure - Designed for high pressure refrigerants, such as R410A
- Vacuum-Rated Components - Tools that do not leak in a deep vacuum
- Full Flow - No flow restrictions across the whole setup
- Toolbag Included - Quickly organize and efficiently carry tools

Part No.	Includes
SPDKIT-R*	MegaFlow 3/8 in Hose - 6 ft [3/8FL to 1/4FL] Blue, MegaFlow 3/8 in Hose - 6 ft [3/8FL to 1/4FL] Red, MegaFlow 3/8 in Hose - 4 ft (1/4FL to 1/4FL) Yellow, MegaFlow 3/8 in Hose - 1 ft (1/4FL to 1/4FL-45 degree) Blue, (2) MegaFlow Valve Core Removal Tool - 1/4in, (2) MegaFlow Valve Core Removal Tool - 5/16in, 45° 1/4in MFL swivel fitting w/screen, SpeedY 1/4in, MegaFlow SpeedKit Carry Bag


SPDY14

SPEED-Y

Part No.	Description
SPDY14*	(2) 3/8in Male Flare, (1) 1/4in Female Flare
SPDY12*	(2) 3/8in Male Flare, (1) 1/2in Female Flare
SPDY38*	(2) 3/8in Male Flare, (1) 3/8in Female Flare


R3M236

GLOBESAFE™ MANIFOLD

- Solid brass, forged body for durability
- Full flow feature for maximum capacity
- Vibration free gauge movement

Part No.	Scale Type	Gauge Size (In.)	Includes
R3M236*	R22, R404A, R134a	3 1/8	Manifold, (3) 36" Hoses, Red, Blue, Yellow
R3M436*	R22, R404A, R410A	3 1/8	Manifold, (3) 36" Hoses, Red, Blue, Yellow
RM236*	R134a, R404A, R22	2 1/2	Manifold, (3) 36" Hoses, Red, Blue, Yellow
RM336*	R410A	2 1/2	Manifold, (3) 36" Hoses, Red, Blue, Yellow
RM436*	R22, R404A, R410A	2 1/2	Manifold, (3) 36" Hoses, Red, Blue, Yellow
RM536*	R22, R407A, R407C	2 1/2	Manifold, (3) 36" Hoses, Red, Blue, Yellow
RM636*	R22, R407C, R410A	2 1/2	Manifold, (3) 36" Hoses, Red, Blue, Yellow
R3M260*	R22, R404A, R134a	3 1/8	Manifold, (3) 60" Hoses, Red, Blue, Yellow
R3M460*	R22, R404A, R410A	3 1/8	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM260*	R134a, R404A, R22	2 1/2	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM360*	R410A	2 1/2	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM460*	R22, R404A, R410A	2 1/2	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM560*	R22, R407A, R407C	2 1/2	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM660*	R22, R407C, R410A	2 1/2	Manifold, (3) 60" Hoses, Red, Blue, Yellow
RM2*	R134a, R404A, R22	2 1/2	Manifold Only
RM3*	R410A	2 1/2	Manifold Only
RM4*	R22, R404A, R410A	2 1/2	Manifold Only
RM5*	R22, R407A, R407C	2 1/2	Manifold Only
RM6*	R22, R407C, R410A	2 1/2	Manifold Only
RM7*	R290, R600a	3 1/8	Manifold Only
RM8*	R32, R454B	2 1/2	Manifold Only
R3M2*	R22, R404A, R134a	3 1/8	Manifold Only
R3M4*	R22, R404A, R410A	3 1/8	Manifold Only

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


MBHP5E

BLACKMAX™ MANIFOLD

BlackMax™ Exclusive TripleSeal™ valve system

- Valve stems retract fully for maximum flow
- Back seating o-ring seals valve nut when fully open
- No flutter gauges wiith rugged metal housings
- Aluminum block
- Additional schraeder valve "T" port
- Large easy-to-grip knobs
- R410A, R22, R404A scales, 2.5" gauge

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)
MBHP5E	2	R-22, 404A, 410A	2.5


845-CC

4 VALVE MANIFOLD, 800 SERIES

- 4 valve efficiency: vacuum, low side, high side, and refrigerant lines are individually connected and controlled.
- 4 times faster evacuation: 3/8" vacuum port and oversize internal passages evacuate systems four times faster than ordinary manifolds.
- Unique Deep Draw vacuum valve design: soft-seat valves require only fingertip pressure to close completely

Part No.	Nb. of Valves	Scale Type	Includes
845-CC	4	R-22, 404A, 410A	Manifold Only


49868

MANIFOLD, TITAN™

The new TITAN™ manifold is the first forged aluminum manifold in the industry. The special aluminum alloy construction of the manifold body makes it lightweight for handling ease with the durability and reliability required for repeated, rugged use.

Features of 2 and 4-valve models:

- Large, easy-to-read 3 1/8" steel case red and blue, 1% accuracy gauges; front access for easy field recalibration; optional protective gauge boots available.
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.

Additional features of 4-valve model:

- Fourth hose to enable connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses.
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4").

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
49868*	2	R22, R404A, R410A	3 1/8	Manifold, 60" PLUS II Compact Ball Valve RYB Hoses
49925*	4	R12, R22, R502	3 1/8	Manifold, 60" Plus II™, RYB & 3/8" x 45°
49967*	4	R22, R404A, R410A	3 1/8	Manifold, 60" PLUS II Standard Hose Set and 3/8" Charging Hose
49963*	4	R22, R404A, R410A	3 1/8	Manifold Only
49974	4	R32, R410A, R454B	3 1/8	Manifold Only
40881	4	R32, R410A, R454B	-	TITANMAX™ Manifold; Vacuum Sensor; TITAN® Temperature Clamps (2); USB-C Cord

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MANIFOLD


46000

MANIFOLD, BRUTE II

- Fourth hose enables connection to hi-/lo-sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- Available in 1/4" hi-/lo-sides with 3/8" vacuum port for regular jobs, or 3/8" hi-/lo-sides with 1/2" vacuum port for larger systems
- Front access for easy field recalibration
- Double "O" ring piston for reliability and long service life
- Exclusive 100-mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seat
- Contoured easy-grip handles for positive control; color-coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out
- Manifold and hose holder fittings 1/4"-3/8"-1/4"-1/4" unless otherwise identified
- Made in the USA

YELLOW JACKET

Part No.	Nb. of Valves	Scale Type	Includes
46000*	4	R410A	Manifold Only
46001*	4	R410A	Manifold Only
46010*	4	R22, R404A, R410A	Manifold Only
46011*	4	R22, R410A	Manifold Only
46014	4	R32, R454B, R410A	Manifold Only
46022*	4	R12, R22, R502	Test and Charging Manifold 3-1/8" Gauges (psi, F) Manifold, 60" PLUS II Hose Set and 3/8" Charging Hose


41313

MANIFOLD, SERIES 41

Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°.

YELLOW JACKET

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
41313*	2	R134a, R404A, R507	2 1/2	Test/Charging Manifold with Gauges, (3) 36" PLUS II Hoses with Standard Fittings
41215*	2	R12, R22, R502	2 1/2	Manifold, 60" PLUS II hoses with standard fittings
41709*	2	R410A	2 1/2	Test/Charging Manifold with Gauges, (3) 60" PLUS II Hoses with Standard Fittings

Continued on next page

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
42004*	2	R22, R404A, R410A	3 1/8	Test/Charging Manifold with Gauges, (3) 60" PLUS II Hoses with Standard Fittings
41312*	2	R413A, R404A, R407	2 1/2	Manifold Only
42001*	2	R22, R404A, R410A	3 1/8	Manifold Only
41712*	2	R410A	2 1/2	Manifold Only
42035*	2	R32, R454B, R410A	3 1/8	Manifold Only


26125

4 VALVE BALL VALVE MANIFOLD, THE REVOLVER™

Four internal metering ball valves adjust to do finite openings for liquid charging. Sturdy brass construction with hose holders that swivel to the front or back for greater flexibility.

- Quarter turn to open/close
- 3/8" port for faster evacuation
- Glow-in-the-dark 3 1/8" gauge

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
26125*	4	R22, R134A, R404A	3 1/8	Manifold Only
26225*	4	R22, R404A, R410A	3 1/8	Manifold Only


22225

PATRIOT 2-VALVE BRASS MANIFOLD

- New rugged bar design with metal handles
- Free floating O-ring system
- Swiveling hose holders
- Replaceable hose fittings
- 3-1/8" Class 1 illuminating gauges

R-404A, R-22, R-410A

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
22225*	2	R22, R410A, R404A	3 1/8	Manifold Only
22625	2	R32, R410A, R454B	3 1/8	Manifold Only

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M28410A

MANIFOLD

- Valve Classic Brass Manifold
- Full flow free floating dual o-ring sealing system design for faster evacuation and charging
- Forged brass bar with angled bar for increased knuckle clearance to rotate handwheels
- Heavy-duty, all metal gauge cases for added durability
- Surge dampened gauges for reduced needle movement
- Easy-to-read, color coded refrigerant dials
- Replaceable, durable hanging hook and intake/hose holder fittings
- Easy-to-turn plastic handwheels; metal available on select models
- 1 year warranty; lifetime on bar

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)	Includes
M28410A*	2	R-22, R-404A, R-410A	2.5	Manifold Only
M25410A*	2	R22, R404A, R410A	2.5	Manifold, CCLE-60 Hose Set


MR503

MANIFOLD REPAIR PARTS

Part No.	Description
MR503*	Handwheel screw (two)
MR505*	Piston with seat and o-rings
MR509*	O-ring (two)
MR501B*	Blue Handwheel and screw
MR501R*	Red Handwheel and screw
MR516*	Stem and nut
MR517*	2 1/2" Gauge case screw-on lens (one for plastic and one for metal)


0564557101

557S DIGITAL VACUUM KIT, WITH BLUETOOTH

Digital manifold with Bluetooth and 4-way valve block for commissioning, servicing and maintenance of refrigeration systems and heat pumps.

- Large graphic display shows all results at a glance
- Simple, wireless humidity, temperature, and vacuum measurements via Bluetooth connectvity
- Fast and easy pressure value display in analog look
- Rugged housing with IP 54 for maximum reliability in daily use
- Refrigerant listing updates automatically using the App Integrated calculation of the target superheat

Part No.	Power	Includes
0564557101	AA Batteries	557s Smart digital manifold, Calibration protocol, 552i Vacuum probe, 115i (2) Wireless clamp temperature probe, Instrument case


0564550201

550S DIGITAL MANIFOLD KIT, WITH BLUETOOTH

Digital manifold with Bluetooth and 2-way valve block for commissioning, servicing and maintenance of refrigeration systems and heat pumps

- Large graphic display shows all results at a glance
- Simple wireless humidity, temperature, and vacuum measurements via Bluetooth connectivity
- Fast and easy pressure value display in analog look
- Rugged housing with IP 54 for maximum reliability in daily use Refrigerant listing updates automatically using the App

Part No.	Includes
0564550201	smart digital manifold with Bluetooth and 2-way valve block, 2 x testo 115i wireless clamp temperature probes (Bluetooth, NTC), case
0564550401	smart digital manifold with Bluetooth and 2-way valve block, 2 x testo 115i wireless clamp temperature probes (Bluetooth, NTC), 552i wireless vacuum probe, case

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MANIFOLD


552I

SMART VACUUM PROBE

The testo 552i wireless vacuum probe provides the Testo Smart Probes portfolio with the option of measuring vacuum wirelessly and via just one service port. The testo 552i requires no additional connections for measuring vacuum. This means that there is minimal refrigerant loss when taking readings. Additionally this prevents leaks and means that you do not have to pull the vacuum through the manifold. The integrated 45° angle allows you to work flexibly at any service connection. The testo 552i automatically connects to testo 550s or testo 557s via Bluetooth. Used with the testo Smart App, the Smart Probe is also perfect for quick vacuum measurement on its own. All thats needed for a quick service check is a phone or tablet, and the testo 552i. Thanks to its proven quality and great durability, you can rely on your wireless vacuum probe in any conditions.

- Fast, easy, and accurate determination of the vacuum via graph (Works with the testo Smart App or the testo 550s/557s)
- Rugged housing with IP 54 for maximum reliability in daily use
- Integrated 45° angle for easy installation on any service port
- Display, graphing, customer data and documentation on the testo Smart App

Part No.	Includes
552I	testo 552i, app-controlled wireless vacuum probe, including batteries and calibration protocol - requires iOS 12.0 or newer; requires Android 6.0 or newer; requires mobile end device with Bluetooth 4.2


549I

SMART AND WIRELESS REFRIGERATION PRESSURE PROBE

The testo 549i Smart Probe is a hose-less, wire-less, pressure probe for measuring refrigerant charge in AC/Refrigeration systems. It is used for servicing, troubleshooting, and documenting the operation of residential or commercial AC/refrigeration systems. When two 549i are used in conjunction with two 115i pipe-clamp temperature probes it is easy to monitor superheat and sub-cooling in AC/refrigeration systems. Users can read the measurements using the testo Smart Probes App installed on their smart device. The testo 549i easily connects to standard Schrader valves without tools and without hoses, eliminating any refrigerant loss. The testo 549i works on smart devices with either Android or Apple operating systems at distances up to 60'.

- Measuring range -14 to 870 psi
- Accuracy 0.5% of final value
- Resolution 0.1psi
- Connection 7/16" - UNF
- Overload rel. 940psi

Part No.	Includes
549I	testo 549i, Bluetooth refrigeration pressure probe with App, 3 AAA batteries and certificate of calibration


0564355001

550I APP-CONTROLLED DIGITAL MANIFOLD, WITH BLUETOOTH

Digital manifold with Bluetooth and 2-way valve block for commissioning, servicing and maintenance of refrigeration systems and heat pumps

- Automatic recognition and controlled by testo Smart App
- Extremely rugged housing with IP 54 for maximum reliability
- The smallest digital manifold on the market Common refrigerants list: The most important refrigerants available quickly and easily
- Combine with testo Smart Probes to measure temperature, humidity, and vacuum wirelessly

Part No.	Includes
0564355001	App Operated Manifold, (2) Testo 115i - Wireless Temperature Probes, Softcase, Calibration Certificate, Manual, Batteries


0564558101

558S - DIGITAL MANIFOLD WITH 4-WAY VALVE BLOCK AND INTUITIVE TOUCHSCREEN

The testo 558s offers an intuitive app feel in the manifold, with touchscreen and clear measurement graphs on a large colour display. In addition to the touchscreen, the manifold can also be operated via keys when working with gloves. Thanks to its A3 and A2L compatibility, high robustness with IP54 and hybrid charging system comprising rechargeable and non-rechargeable batteries, the manifold is ideal for every situation.

Part No.	Includes
0564558101	testo 558s digital 4-way manifold; USB-C cable; testo Smart App (free download); Calibration protocol; Instruction manual


0564558301

558S SMART VACUUM KIT WITH FILLING HOSES

The practical kit containing the testo 558s digital manifold with Bluetooth connection to the wireless temperature and vacuum probes, together with the 4-hose charging set included in the kit, offers the ideal basis for carrying out everyday measuring tasks. The testo 558s offers intuitive operation thanks to its touchscreen and clear measurement graphs on a large colour display. In addition to the touchscreen, the manifold can also be operated via keys when working with gloves. Thanks to its A3 and A2L compatibility, high robustness with IP54 and hybrid charging system comprising rechargeable and non-rechargeable batteries, the manifold is ideal for every situation.

Part No.	Includes
0564558301	testo 558s digital 4-way manifold; 2 x testo 115i wireless clamp thermometers; 1 x testo 552i wireless vacuum probe; 3 x hose charging set with valve 1/4" - 1/4" SAE (7/16" - 7/16" UNF); 1 x Vacuum hose 3/8" SAE (5/8" UNF); Transport case; USB-C cable; testo Smart App (free download); Calibration protocol; Instruction manual


05641001

MAGNETIC STRAP FOR DIGITAL MANIFOLDS

Use the magnetic strap to fasten your manifold to metallic surfaces such as those on refrigeration and air conditioning systems and heat pumps quickly and securely. Thanks to the simple click system, you can use either the hook or the magnet to hang up the manifold – so the manifold can easily be attached to any system, leaving you with both hands free for measuring.

- Strong magnet and sturdy strap
- One-off assembly for flexible use of the magnet or hook
- Simple click system enables quick switch in everyday situations

Part No.	Description
05641001	Magnetic strap for digital manifolds


0563000220

SMART PROBES AC AND REFRIGERATION TEST KIT

- Equipped with extended Bluetooth range of up to 350 feet
- Ideal for servicing and troubleshooting on air conditioning and refrigeration systems
- Allows for easy operation when measuring points that are far apart
- Simultaneously measures high-side and low-side refrigerant pressure and temperatures
- No hoses required, resulting in low-loss AC/R system checks
- Calculates superheat and subcooling with compatible Smart Probe App
- 549i gauge includes 45° angled probe connection for easier mounting
- Clamp thermometer measures temperature of pipes up to 1.5" in heating and cooling systems
- Works on smart devices with either Android or Apple operating systems
- Measurement data sent to a Smart phone or tablet via testo Smart Probes App
- More than 90 common refrigerants plus refrigerant updates available in Smart Probes App
- HVAC soft case holds the complete set of smart probes
- Temperature measuring range: -40 to 302°F
- Pressure measuring range: -15 to 870 psi

Part No.	Includes
0563000220	(2) Pipe Clamp Thermometer Smart Probe - 2nd Gen, (2) Refrigeration Pressure Smart Probe - 2nd Gen, Soft Case, (12) AAA Batteries, Certificate of Calibration

MANIFOLD



0549

PRINTER

Printer for use with any compatible Testo analyzer

Part No.	Description	Includes
0549	Testo Fast IR Printer	Printer, thermal paper
0568	Thermal Printer Paper for Testo Printers	Package of 6 rolls

GAUGE



N2003

GAUGE

- Replacement manifold gauge

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
N2003*	0-500	R134a, R404A, R22	2.00	Red
N2010*	0-500	R22, R407A, R407C	2.00	Red
N2004*	0-800	R410A, R22, R407C	2.00	Red
N2006*	0-800	R410A	2.00	Red
N2008*	0-800	R22, R404A, R410A	2.00	Red
N2002*	30″-0-120	R134a, R404A, R22	2.00	Blue
N2009*	30″-0-250	R22, R404A, R410A	2.00	Blue
N2011*	30″-0-250	R22, R404A, R407C	2.00	Blue
N2005*	30″-0-250	R410A, R22, R407C	2.00	Blue
N2007*	30″-0-500	R410A	2.00	Blue
N3002*	0-500	R22, R134a, R404A	3.00	Red
N3000*	0-800	R22, R404A, R410A	3.00	Red
N3003*	30″-0-120	R22, R134a, R404A	3.00	Blue
N3001*	30″-0-350	R22, R404A, R410A	3.00	Blue



49002

GAUGE

- Gauges are 1/8″ MPT bottom connection
- Replacement manifold gauge

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
49002*[1]	30″-0-120	R12, R22, R502	2.50	Blue
49052*[1]	30″-0-120	R134a, R404, R507	2.50	Blue
49132*[1]	30″-0-300	R134a, R404A, R407C	3.13	Blue
49001*[2]	0-500	R12, R22, R502	2.50	Red
49051*[2]	0-500	R134a, R404, R507	2.50	Red
49137*[2]	0-800	R22, R410A, R410A	3.13	Red
49138*[3]	30″-0-350psi	R22, R410A, R410A	3.13	Blue
49117*[4]	0-800	R32, R410A, R454B	3.13	Red
49118*[4]	0-500	R32, R410A, R454B	3.13	Blue

[1] Compound [2] High Side [3] Low Side [4] A2L Manifold Gauge



49519

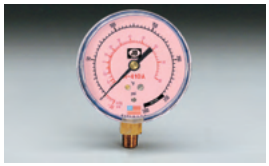
GAUGE, GLYCERINE FILLED

Glycerine filled gauges are a larger 3 1/2″ diameter for easy reading with refrigerants color coded on dials. Liquid filled gauges dampen pulsation. Back recalibrator screw, 1/8″ MPT connection.

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
49519*[1]	(0-55.16Bar)	R410A	3.50	Red
49511*[1]	0-500	R22	3.50	Red
49513*[1]	0-500	R22, R134a, R404A	3.50	Red
49515*[1]	0-800	R22, R410A	3.50	Red
49517*[1]	0-500	R134a, R404A, R407C	3.50	Red
49518*[2]	30″-0-120	R134a, R404A, R407C	3.50	Blue
49520*[2]	(-1-21Bar)	R410A	3.50	Blue
49512*[2]	30″-0-120	R22	3.50	Blue
49514*[2]	30″-0-120	R22, R134a, R404A	3.50	Blue
49516*[2]	30″-0-350	R22, R410A	3.50	Blue

[1] High Side [2] Compound

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



M2415

GAUGE

- High impact clear view Lexan lens
- Recalibration screw
- Full size brass movements
- 1/8" MPT connections
- CFC compound gauges retard to 350 psi
- R410A compound gauges retard to 500 psi

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
M2415*[1]	0-800	R410A	2.50	Red Steel
M2500*[1]	0-500	R12, R22, R502	2.50	Red Steel
M2500B*[1]	0-500	R12, R22, R502	2.50	Brass
M2465*[2]	0"-800	R22, R404A, R410A	2.50	Red Steel
M2250*[2]	30"-0-120	R12,R22,R502	2.50	Blue Steel
M2250B*[2]	30"-0-120	R12,R22,R502	2.50	Brass
M2410*[2]	30"-0-250	R410A	2.50	Blue Steel
M2460*[2]	30"-0-250	R22, R404A, R410A	2.50	Blue Steel

[1] High Side [2] Compound



M2820L

BACK-LIT LED GAUGE

- 3-1/8" illuminated gauges
- Low energy LED back lighting for dark areas with the flip of the switch
- Rocker On/Off switch
- Replaceable 3v lithium coin cell battery included
- Estimated 250+ hour battery life
- All metal casing
- Surge dampened for accuracy
- High impact clear Lexan lens
- Recalibration screw
- Full size brass movements
- 1/8" MPT connection
- R410A compound gauge retards to 500 psi

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
M2820L*[1]	30"-0-250	R22, R404A, R410A	3.13	Blue
M2825L*[2]	0-800	R22, R404A, R410A	3.13	Red

[1] Compound [2] High Side



M2851

ILLUMINATED GAUGE

- 3-1/8" illuminated gauges
- The glow-in-the-dark dials store energy to emit light in dimly lit or dark applications
- Surge dampened for accuracy and full size brass movements
- High impact clear view Lexan lens
- 1/8" MPT connections
- Retard to 350 psi

Part No.	Scale Range	Scale Type	Diameter (In.)	Color
M2851*[1]	30-0-120	R22, R404A, R134a	3.13	Blue Steel

[1] Compound



49091

GAUGE BOOT

- Rubber boots slip easily around gauges to cushion and protect them from impact
- Fits standard 2 1/2" gauges

Part No.	Color	Description
49091*	Red	Gauge Boot
49092*	Blue	Gauge Boot
49090*	1 Red, 1 Blue	Set (2) Gauge Boot

AMMONIA



40193

MANIFOLD

Part No.	Nb. of Valves	Scale Type	Includes
40193*	2	R17	Manifold, (3) 48" NHA Hoses



40201

GAUGE

- Construction: Bourdon tube 316 stainless
- Steel sockets
- Black painted steel gauge case
- Connection: 1/4" MPT bottom

Part No.	Diameter (In.)	Pressure Range (psi)	Crystal
40201*	2.50	30"-0-150	Plastic Twist On
40202*	2.50	30"-0-400	Plastic Twist On

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AMMONIA


19510

HOSE, 1/4"

- Steel quick couplers
- 1/4" female flare x 1/4" 45° angle female flare
- 900 psi working pressure
- 3500 psi burst pressure

YELLOW JACKET

Part No.	Color	Length (In.)	Description
16848*	Black	48.00	48", 1/4" Str. fl. x 1/4" 45°, ammonia charging hose
19510	Black	10.00	10¢, 3/8" Str. fl. both ends, ammonia charging hose
19448	Black	48.00	48", 3/8" Str. fl. both ends, ammonia charging hose
19472	Black	72.00	72", 3/8" Str. fl. both ends, ammonia charging hose
16801	Black	1.25	1/4" M. fl. x 1/4" NPT M. Str., steel half union ammonia fittings
16803	Black	1.25	3/8" M. fl. x 1/4" NPT M. , steel half union ammonia fittings


41345

MANIFOLD

YELLOW JACKET

Part No.	Includes
41345*	60' Hose set, Set of R134a Couplers, set 1/2" fittings, set 14 mm fittings, set of hose anchors


21H

COUPLER, SNAP ON

- 14 mm thread connection
- R134a automotive systems
- Color coded knobs

Imperial

Part No.	Description	Length (In.)
21H	High Side Connector	5.00
21L	Low Side Connector	6.00


QCH90

COUPLER, SNAP ON

cps

Part No.	Description	Length (In.)
QCH90	Quick Coupler, Automotive, High Side	3.60
QCL90	Quick Coupler, Automotive, Low Side	4.00


41317

COUPLER, SNAP ON

A basic coupler to snap onto R-134a service ports. Instant flow. Convert your R-12 hoses for R-134a service. With 1/4"M flare hose connection.

YELLOW JACKET

Part No.	Description	Length (In.)
41317*	Coupler, automotive, convert R12 hoses to R134a service, 1/4" MFL, high side	5.50
41318*	Coupler, automotive, convert R12 hoses to R134a service, 1/4" MFL, low side	5.50


41337

COUPLER, SCREW ON

- Couplers interface with R-134a service ports
- Control valve for access to systems even at working pressures
- Integral safety sleeve holds coupler securely to service port

YELLOW JACKET

Part No.	Description	Length (In.)
41337*	Coupler, automotive, screw on, premium, R134a, 1/4" MFL, high side	4.80
41338*	Coupler, automotive, screw on, premium, R134a, 1/4" MFL, low side	5.75

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


19157

COUPLER

Air fittings couplers designed to work with 1/2" Acme or 14mm threads. Made in the USA

YELLOW JACKET

Part No.	Connection Size (In.)	Length (In.)
19157*	14 mm Male x 1/4" Male Flare	3.00
19158*	1/2 Acme Fem x 14 mm Male	4.00
19161*	1/2 Acme Male x 1/4 Fem Flare	3.00
19162*	1/2 Acme Male x 1/4 Fem Flare Hex	7.00
19165R*	1/2 Acme Fem x 1/4 Male Flare	4.00

HOSE


22212RITCHIE

PLUS II™ 1/4" WITH SEALRIGHT™ LOW LOSS ANTI-BLOW BACK FITTING

- 45° end for easy installation in tight areas
- Gaskets resist deterioration from existing CFC, HCFC, HFC and HFO refrigerants and oils
- Available with SealRight fittings on both ends
- UL recognized assemblies (File SA9737)
- Made in the USA
- Low loss anti-blow back SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns.

YELLOW JACKET

Part No.	Color	Length (In.)	Description
22212RITCHIE*	Blue	12.00	PLUS II™ 1/4" hose with SealRight fitting
22612*	Red	12.00	PLUS II™ 1/4" hose with SealRight fitting
22012*	Yellow	12.00	PLUS II™ 1/4" hose with SealRight fitting
22248*	Blue	48.00	PLUS II™ 1/4" hose with SealRight fitting
22648*	Red	48.00	PLUS II™ 1/4" hose with SealRight fitting
22660	Red	60.00	PLUS II™ 1/4" hose with SealRight fitting
22672*	Red	72.00	PLUS II™ 1/4" hose with SealRight fitting
22072*	Yellow	72.00	PLUS II™ 1/4" hose with SealRight fitting
22985*	(Set of 3) Red, Blue, Yellow	60.00	3 pak PLUS II™ 1/4" hose with SealRight fitting
22986*	(Set of 3) Red, Blue, Yellow	72.00	3 pak PLUS II™ 1/4" hose with SealRight fitting


30260

A2L HOSES

A2L Adapters & Hoses for Connection to Left-Handed A2L Refrigerant Tanks The A2L refrigerants, R-32 and R-454B, have adopted left-handed connections for their tanks. These new refrigerants are categorized as slightly flammable, so left-handed connections were implemented to differentiate them from A1, non-flammable refrigerants. As the industry adopts these new refrigerants, YELLOW JACKET® A2L Tank Adapters and Charging Hoses incorporate left-handed connections so a service technician can safely charge A2L refrigerant systems. Easily identified by double ring on tightening knurl for LH connection.

YELLOW JACKET

Part No.	Color	Length (In.)	Description
30260	Yellow	60.00	Yellow Plus II Hose, 60" 1/4" LH to 1/4" RH, 45 Degree Fitting
30460	Yellow	60.00	Yellow Plus II Hose, 60" 1/4" LH to 1/4" RH, 45 Degree Fitting with Ball Valve


N36RBY

STANDARD HOSE, 1/4"

- 1/4" I.D. hose
- 1/4" female flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

NATIONAL REFRIGERATION PRODUCTS

Part No.	Color	Length (In.)
N36RBY*	(Set of 3) Red, Blue, Yellow	36.00
N48RBY*	(Set of 3) Red, Blue, Yellow	48.00
N60RBY*	(Set of 3) Red, Blue, Yellow	60.00
N72RBY*	(Set of 3) Red, Blue, Yellow	72.00
N144B*	Blue	144.00
N144R*	Red	144.00
N144Y*	Yellow	144.00
N300Y*	Yellow	300.00
N36B*	Blue	36.00
N36R*	Red	36.00
N36Y*	Yellow	36.00
N48B*	Blue	48.00
N48R*	Red	48.00
N48Y*	Yellow	48.00
N600Y*	Yellow	600.00
N60B*	Blue	60.00
N60R*	Red	60.00
N60Y*	Yellow	60.00
N72B*	Blue	72.00
N72R*	Red	72.00
N72Y*	Yellow	75.00
N96Y*	Yellow	96.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

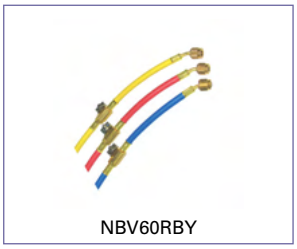
HOSE


N3860Y

STANDARD HOSE, 3/8"

- 3/8" I.D. hose
- 3/8" female flare x 3/8" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
N3860Y*	Yellow	60.00
N3872Y*	Yellow	72.00
N38600Y	Yellow	600.00

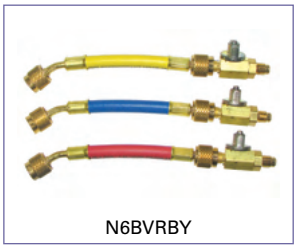

NBV60RBY

BALL VALVE HOSE, INTEGRAL, 1/4"

Premium refrigerant charging/ vacuum hose with in-line positive shut-off ball valves.

- 1/4" I.D. hose
- 1/4" female flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibility

Part No.	Color	Length (In.)
NBV60RBY*	(Set of 3) Red, Blue, Yellow	60.00
NBV72RBY*	(Set of 3) Red, Blue, Yellow	72.00
NBV36B*	Blue	36.00
NBV36R*	Red	36.00
NBV36Y*	Yellow	36.00
NBV48B*	Blue	48.00
NBV48R*	Red	48.00
NBV48Y*	Yellow	48.00
NBV60B*	Blue	60.00
NBV60R*	Red	60.00
NBV60Y*	Yellow	60.00
NBV72B*	Blue	72.00
NBV72R*	Red	72.00
NBV72Y*	Yellow	72.00

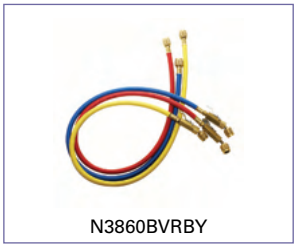

N6BVRBY

BALL VALVE HOSE, EXTERNAL, 1/4"

Premium refrigerant charging/ vacuum hose with positive shut-off ball valve end.

- 1/4" I.D. hose
- 1/4" ball valve
- 1/4" male flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
N6BVRBY*	(Set of 3) Red, Blue, Yellow	6.00
N12BVRBY*	(Set of 3) Red, Blue, Yellow	12.00
N6BVB*	Blue	6.00
N6BVR*	Red	6.00
N6BV*	Yellow	6.00

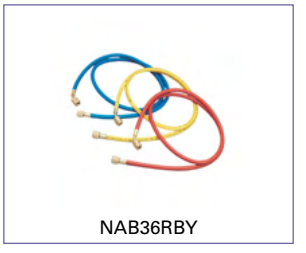

N3860BVRBY

BALL VALVE HOSE, EXTERNAL, 3/8"

Premium refrigerant charging/ vacuum hose with positive shut-off ball valve end.

- 3/8" I.D. hose
- 3/8" ball valve
- 3/8" male flare x 3/8" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
N3860BVRBY*	(Set of 3) Red, Blue, Yellow	60.00


NAB36RBY

ANTI BLOWBACK HOSE, 1/4"

Eco-safe hose with shut-off fitting on one end.

- 1/4" female flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
NAB36RBY*	(Set of 3) Red, Blue, Yellow	36.00
NAB48RBY*	(Set of 3) Red, Blue, Yellow	48.00
NAB60RBY*	(Set of 3) Red, Blue, Yellow	60.00
NAB72RBY*	(Set of 3) Red, Blue, Yellow	72.00
NAB96RBY*	(Set of 3) Red, Blue, Yellow	96.00
NAB12B*	Blue	12.00
NAB12R*	Red	12.00
NAB36B*	Blue	36.00
NAB36R*	Red	36.00
NAB36Y*	Yellow	36.00
NAB48B*	Blue	48.00
NAB48R*	Red	48.00

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Color	Length (In.)
NAB48Y*	Yellow	48.00
NAB60B*	Blue	60.00
NAB60R*	Red	60.00
NAB60Y*	Yellow	60.00
NAB72B*	Blue	72.00
NAB72R*	Red	72.00
NAB72Y*	Yellow	72.00
NAB96Y*	Yellow	96.00
NAB120B*	Blue	100.00

HEAVY DUTY CHARGING/VACUUM HOSE

HEAVY DUTY HOSE, 1/4"

- 1/4", 3/8" and 1/2" heavy-duty refrigerant hoses constructed by Goodyear Engineered Products
- GY5 premium, permeation resistant, double barrier hose
- Suitable for R12, R134a, R22, R500, R502, R404A, R410A and HCFC blends


NHD1436

HEAVY DUTY HOSE, 1/4"

- 1/4" I.D. hose heavy duty black hose
- 1/4" female flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi
- U.L. Recognized, suitable for R12, R22, R502, R134a, R410A, and HCFC blends

Part No.	Color	Length (In.)
NHD1436*	Black	36.00
NHD1448*	Black	48.00
NHD1460*	Black	60.00
NHD1472*	Black	72.00
NHD1496*	Black	96.00
NHD14144*	Black	144.00
NHD14300*	Black	300.00


NHD3836S

HEAVY DUTY HOSE, 3/8"

- 3/8" I.D. heavy duty black hose
- Straight, 3/8" female flare connection
- Max working pressure: 800 PSI
- Burst: 4000 PSI
- U.L. Recognized, suitable for R12, R22, R502, R134a, R410A, and HCFC blends

Part No.	Color	Length (In.)
NHD3836S*	Black	36.00
NHD3848S*	Black	48.00
NHD3860S*	Black	60.00
NHD3872S*	Black	72.00
NHD38300S*	Black	300.00
NHD38600S*	Black	600.00


NHD1260S

HEAVY DUTY HOSE, 1/2"

- 1/2" I.D. heavy duty black hose
- Straight, 1/2" female flare connection
- Max working pressure: 640 PSI
- Burst: 3200 PSI
- U.L. Recognized, suitable for R12, R22, R502, R134a, R410A, and HCFC blends

Part No.	Color	Length (In.)
NHD1260S*	Black	60.00
NHD1272S*	Black	75.00
NHD1296S*	Black	96.00
NHD12144S*	Black	144.00
NHD12300S*	Black	300.00


NHD12601

HEAVY DUTY VACUUM HOSE, 1/2"

- Straight female flare connection
- Max working pressure: 640 PSI
- Burst: 3200 PSI
- U.L. Recognized

Part No.	Color	Length (In.)	Connection Size (In)
NHD12601*	Black	60.00	1/4 FFL x 1/2 FFL Straight
NHD12602*	Black	60.00	1/4 FFL x 3/8 FFL Straight

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

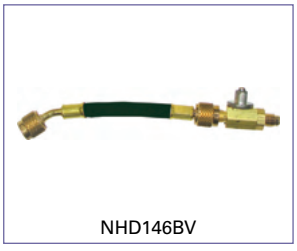
HEAVY DUTY CHARGING/VACUUM HOSE


NHD38601

HEAVY DUTY VACUUM HOSE, 1/2"

- 1/4 FFL x 3/8 FFL Straight
- Max working pressure: 800 PSI
- Burst: 4000 PSI
- U.L. Recognized

Part No.	Color	Length (In.)
NHD38601*	Black	60.00
NHD38721*	Black	72.00


NHD146BV

BALL VALVE HOSE, EXTERNAL, 1/4"

Heavy duty refrigerant charging/ vacuum hose with ball valve end. Full flow ball valve with positive shut-off.

- 1/4" ball valve
- 1/4" male flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
NHD146BV*	Black	6.00
NHD1436BV*	Black	36.00
NHD1448BV*	Black	48.00


NHD3860BV

BALL VALVE HOSE, EXTERNAL, 3/8"

Heavy duty refrigerant charging/ vacuum hose with ball valve end. Full flow ball valve with positive shut-off.

- 3/8" ball valve
- Straight, 3/8" male flare x 3/8" female flare
- Max. working pressure: 800 psi
- Burst: 4000 psi

Part No.	Color	Length (In.)
NHD3860BV*	Blue	60.00


NHDBV1460

BALL VALVE HOSE, INTEGRAL, 1/4"

Heavy duty refrigerant charging/ vacuum hose with in-line positive shut-off ball valves. Full flow ball valve with positive shut-off.

- 1/4" ball valve
- 1/4" female flare x 1/4" female flare 45°
- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibility

Part No.	Color	Length (In.)
NHDBV1460*	Black	60.00
NHDBV1472*	Black	72.00
NHDBV14144*	Black	144.00


NHDBV3836

BALL VALVE HOSE, INTEGRAL, 3/8"

Heavy duty refrigerant charging/ vacuum hose with in-line positive shut-off ball valves. Full flow ball valve with positive shut-off.

- 3/8" ball valve
- Straight, 3/8" female flare
- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibility

Part No.	Color	Length (In.)
NHDBV3836*	Black	36.00

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HOSE ACCESSORIES


15048

PLUS II™ 1/4" HEAVY DUTY CHARGING HOSE

Heavy duty construction for substantially increased service life. Flexibility for all-weather easy handling.

YELLOW JACKET

Part No.	Description
15048*	Heavy duty with HCA straight x angle
15060*	Heavy duty with HCA straight x angle
15150*	Heavy duty with HCA straight x angle
15272*	Heavy duty with HCL straight x 90°
29860*	Heavy duty with ball valve
HCA36	36", PLUS II™ 1/4" heavy duty with HCA straight x angle
HCA48	48", PLUS II™ 1/4" heavy duty with HCA straight x angle


NH06KIT

HOSE REPAIR KIT

NH06KIT: 3/8" seal gasket 10 pcs., depressor 10 pcs., 1/4" seal gasket 10 pcs., 3/8" finger tight O-ring cap 2 pcs., valve core tool 2 pcs., 1/4" finger tight O-ring cap 6 pcs.

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Includes
NH06KIT*	Gasket, Seal Cap Kit	3/8" seal gasket 10 pcs., depressor 10 pcs., 1/4" seal gasket 10 pcs., 3/8" finger tight O-ring cap 2 pcs., valve core tool 2 pcs., 1/4" finger tight O-ring cap 6 pcs.
NABKIT*	Anti Blow-back Repair Kit	(2) O-rings, Head, Gasket, Depressor, Gasket Retainer, Spring
NABORING*	Replacement O-Ring for Anti-Blow Back Fittings	5 in pack
NBVRK*	Shut-Off Valve Rebuild Kit for 1/4" Ball Valve	-


18001-REC

HOSE COUPLER GASKET

YELLOW JACKET

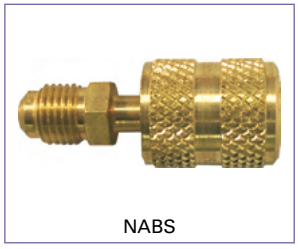
Part No.	Use with	Description	Pkg Qty
18001-REC*	Charging Hoses	Cylinder valve	10
19005-REC*	Charging Hoses	CH20 for 1/4" hose	100
19011*	3/8" Hose Coupler	Replacement gasket	10
19012*	Charging Hoses	E hose for 3/4" hose	10
19015*	1/2", 5/8" Hose Coupler	CH80 gasket for 1/2"-5/8" hose	10
19020*	1/4" Hose Coupler	Replacement gaskets for 1/4" and 5/16"	10
19022*	Charging Hoses	Gaskets for 60667 recovery pliers	5
19037*	PLUS II	O Rings	10
R19010*	Charging Hoses	CH20 (6 pak) and CH14 (3 pak) for 1/4" hose opener	6 and 3


NH03016

HOSE ACCESSORIES

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
NH03016*	Valve Core	5
NH03016-25*	Valve Core	25
NH05001*	1/4" Hose Gasket	10
NH01013*	3/8" Hose Gasket	10
NH01012*	1/2" Hose Gasket	10
NH05007*	Hose Core Depressor	10


NABS

ANTI-BLOWBACK HOSE ADAPTER

Adapters to retrofit regular hose to anti-blowback.

NATIONAL REFRIGERATION PRODUCTS

Part No.	Connection Type	Connection Size (In.)	Length (In.)
NABS*	Straight	1/4 FFL x 1/4 MFL	3.10
NAB45*	45°	1/4 FFL x 1/4 MFL	7.00
NAB90*	90°	1/4 FFL x 1/4 MFL	6.00
NAB516S*	Straight	5/16 FFL x 1/4 MFL	4.40
NAB51645*	45°	5/16 FFL x 1/4 MFL	3.20
NAB51690*	90°	5/16 FFL x 1/4 MFL	3.20

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HOSE ACCESSORIES


N516S

HOSE ADAPTER

Adapter with valve core to retrofit standard 1/4" FFL fitting to 5/16" FFL

Part No.	Connection Type	Length (In.)
N516S*	Straight	4.30
N51645*	45°	3.20
N51690*	90°	3.20


QCH14

COUPLER

Part No.	Description	Length (In.)
QCH14	Quick Coupler, Automotive, Manual, High Side	3.40
QCL14	Quick Coupler, Automotive, Manual, Low Side	3.40

VALVES


A32525SVT

SLIDE VALVE CORE REMOVAL W/TORQUE KNOB

1/4" Vacuum Rated Valve Core Removal Tool with Slide Valve Side Port and Torque Setting

- Designed with the daily job of technicians in mind—The A32525SVT* valve core removal tool utilizes an additional slide valve side port to accommodate a vacuum gauge.
- Primary function is to remove and replace the valve core under pressure and/or to remove valve cores in refrigeration systems to increase evacuation and charging performance.
- Swap out damaged valve cores under pressurized air conditioning and refrigeration systems for much faster evacuation

Part No.	Description
A32525SVT	1/4" Vacuum Rated Valve Core Removal Tool with Slide Valve Side Port and Torque Setting

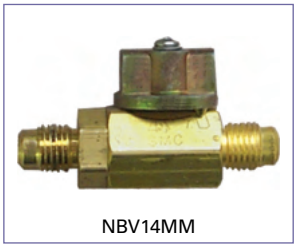

VC2G

1/4" VALVE CORE REMOVAL TOOL DUAL VALVE WITH SIGHT GLASS

VC2G has an integrated sight glass so you visually verify the valve core is engaged before removing it, as well as confirm refrigerant is flowing. A second ball valve on the side port protects your vacuum and pressure gauges.

- Swap 1/4" standard service port fitting with optional 5/16" fitting for mini-splits
- Lock in the valve core in one try – a gasket secures the valve core pin
- Easier removal and insertion against pressure with a comfort spinner – a free-spinning, rubberized, magnetic cap
- Dual ball valves for protecting test gauges and using multiple hose lines
- Vacuum-rated to 20 microns
- A2L Compatible

Part No.	Description
VC2G	1/4" Valve Core Removal Tool Dual Valve with Sight Glass


NBV14MM

SHUTOFF VALVE

Simple, effective ball shutoff valves. Prevents unnecessary venting.

Part No.	Description
NBV14MM	1/4" MFL x 1/4" MFL
NBV14FM	1/4" MFL x 1/4" FFL
NBV38MM	3/8" MFL x 3/8" MFL
NBV38FM	3/8" MFL x 3/8" FFL

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


93834

CONTROL VALVE

- Charging, vacuum ball valves
- Full flow capacity

Part No.	Connection Size (In.)	Description
93834*	1/4 MFL x MFL	Ball valve SAE Male fl. x Male fl.
93844*	1/4 MFL x FFL	Ball valve SAE Male fl. x Female fl.
93846*	3/8 MFL x FFL	Ball valve SAE Male fl. x Female fl.
93848*	1/2 MFL x FFL	Ball valve SAE Male fl. x Female fl.
69067*	1/8" NPT Female X 1/4" Male Flare	Optional ball valve to add to sensor


18993

CONTROL VALVE

Sturdy valve controls refrigerant flow from access fitting. Closes schrader before disconnecting. New back seat valve feature to retain gas in hose when disconnecting.

- Uses 19020 gasket

Part No.	Description
18993*	Gas Retention Valve
19000*	Vacuum/Charge Valve


19302

VALVE OPENER

- Simply rotate the opener with needle nose pliers to the desired height and when finished, rotate it back.
- The patented "Adjust-a-Valve" reaches out-of-tolerance in 1/4", 3/16" and 5/16" couplers.
- Made in the USA

Part No.	Description	Pkg Qty
19302*	"Adjust-a-Valve" openers	10
19301*	Valve Opener	10
19304	1/8" Valve openers	10


A33000

BACK SEATING CONTROL VALVE

- Eliminates spraying of leak detection dye and refrigerant
- Compact brass body for long service
- Swivel coupler with double safety grooves

Part No.	Connection Size (In.)
A33000*	1/4 M Flare x 1/4 Q.C. Female


VCR146

VALVE CORE TOOL

Part No.	Description
VCR146	1/4" Valve core tool with storage for six valve cores (valve cores included)


A32008

VALVE CORE TORQUE TOOL

Automatically sets proper torque to 5" pounds. Calibrated to precise torquing requirements for core valves, the tool will no longer tighten once proper torque is achieved. Eliminates guess work which results in under and over torquing. Works with all Schrader valve cores.

Part No.	Description
A32008*	Valve Core Torque Tool 1/4" Flare x 1/8" MPT Half Union


A31997

CORE REMOVER

5 gasket seal caps with core remover feature.

Part No.	Description
A31997*	1/4" SAE gasket seal caps with core remover feature (5 pack)

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

CORE REMOVER


VCR1

DIVERSITECH

Part No.	Description
VCR1	Core Removal Tool, 4 Cores

CORE REMOVAL TOOLS



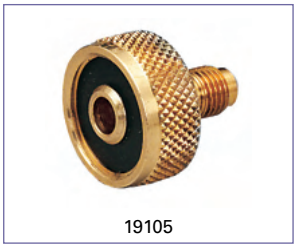
CRT516

- Removes valve cores for full-flow recovery & evacuation
- 1/4" side access port for attaching service gauges
- Working Pressure (PSI) 800 PSI / 55 BAR
- Vacuum Capacity Rating 20 Microns
- Temperature Rating -20°~180°F (-28.8°~82.2°C)

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
CRT516	5/16" CORE REMOVAL TOOL 5/16FFLX1/4MFL
CRT14	1/4" CORE REMOVAL TOOL 1/4FFLX1/4MFL

DRUM ADAPTER, SWIVEL


19105

- Finger tight adapters fit 125 and 145 lb. cylinders

YELLOW JACKET

Part No.	Connection Size (In.)	Length (In.)
19105*	3/4 NPS x 1/4 MFL	4.00
19106*	3/4 NPS x 3/8 MFL	3.00

MEGAFLOW™ VALVE CORE REMOVAL TOOL


MGAVCT

- Remove restrictive access valve cores for high-speed recovery and evacuation
- Double O-ring seal on ball valve handle for accurate "blank off" vacuum testing
- 1/4" side port for vacuum gauges
- MegaGrip Core Tip™ minimizes lost cores
- MegaSeal™ cap made with aircraft-grade aluminum and molded neoprene gasket, reliably seals under pressure and vacuum
- Rated to 20 microns
- Use 5/16" for R410a Split Systems - no extra adapters needed

NATIONAL REFRIGERATION PRODUCTS

Part No.	Connection Size (In.)	Description
MGAVCT*	1/4	MegaFlow™ Valve Core Removal Tool
MGAVCR*	5/16	MegaFlow™ Valve Core Removal Tool

MEGAFLOW™ BASICS EVACUATION KIT


MGABAS

- Remove restrictive valve cores and use large-diameter vacuum-rated hoses for up to 10x faster evacuation (compared to 1/4" connections)
- Contains MegaFlow valve core removal tool and 6' black hose
- Vacuum-rated valve core tool removes restrictive cores
- Opens up over 90% of internal diameter of access port
- Large diameter, vacuum-certified, 1/2" evacuation hose, allows up to 16X more flow than 1/4" hose
- Vacuum-certified hoses don't collapse or permeate
- Ultra-flexible for easy connections in tight spaces
- Rated to 20 microns

NATIONAL REFRIGERATION PRODUCTS

Part No.	Connection Size (In.)	Description
MGABAS*	1/2	Black Hose with 1/4" Valve Core Removal Tool (MGAVCT)

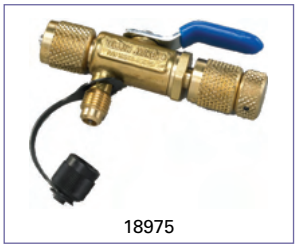
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


CD5555

CORE REMOVAL TOOL

Extract and replace access core without removing charge from system.

Part No.	Description
CD5555	CRT O-Ring Repair Kit
CRT*	1/4" Core removal tool, extracts and replaces access core w/ out removing charge from system


18975

CHARGE/CORE TOOL

- Vacuum valve: extra 1/4" side port to attach electronic micron vacuum gauge right at system for greater accuracy
- Core removal access: lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum

Part No.	Connection Size (In.)	Description
18975*	1/4	Vacuum/charge valve with side port: 1/4 female connector, 1/4 male port, 1/4 male side port

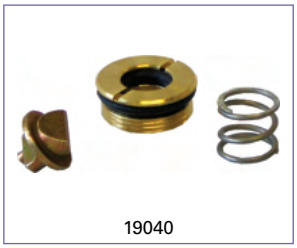

A32100

EVACUATION RECOVERY TOOL

Plier-type tool with a quick release trigger to puncture large holes into the line for discharge of a recovery unit

Part No.	Description
A32100	Fits 3/16" to 7/8" OD hard tubing

COUPLERS


19040

QUICK COUPLER, SEALRIGHT™ ACCESSORIES

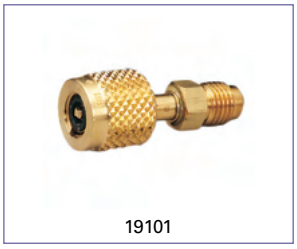
Part No.	Description	Length (In.)
19040*	Quick coupler, Sealright TM, rebuild kit	4.00


QCE4

QUICK COUPLER

- Quick couplers are knurled female flare with safety channels for blowoff, seals and valve depressor unless specified otherwise.

Part No.	Connection Size (In.)	Length (In.)
QCE4*	1/4 QC x 1/4 M Flare 90°	3.00
QCE5*	5/16 QC x 1/4 M Flare 90°	3.00
QCS4*	1/4 QC x 1/4 M Flare	3.00
QC-S64*	3/8 QC x 1/4 MFL Less Depressor	3.00
QCS4A*	1/4 QC x 1/8 FPT	3.00
QCS4B*	1/4 QC x 1/4 FPT	3.00
QCS4A134A*	1/4 QC x 1/2 Male Acme (R134a)	3.00

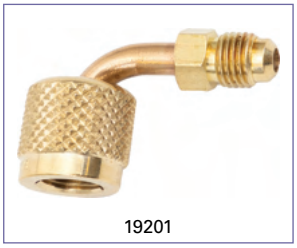

19101

QUICK COUPLER, STRAIGHT

Part No.	Connection Size (In.)	Description	Length (In.)
19101*	1/4 Fem Q.C. x 1/4 MFL	Quick coupler	3.00
19102*	1/4 Fem Q.C. x 3/8 MFL	Quick coupler, straight	4.00
19104*	3/8 Fem Q.C. x 1/4 M. Flare	Quick coupler	3.00
19110*	1/4 Fem Q.C. x 1/8 FPT	Quick coupler CH14 adj. valve opener	4.00
19120*	3/16 Fem Q.C x 1/4 MFL	Quick coupler GM	4.00
19125*	1/8 Fem Q.C. x 1/4 M. Flare	Quick coupler Ford	4.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

COUPLERS

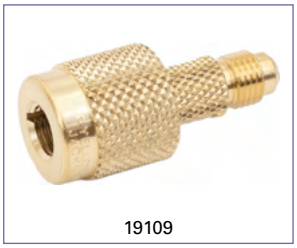

19201

QUICK COUPLER, 90°

Patented CH14 "adjust-a-valve" opener in all 1/4" female ends. Acme conversion couplers are available to aid in recovery where recovery tank has incompatible threads. Also used to convert R-134a refrigerant cylinder threads as necessary.

YELLOW JACKET

Part No.	Connection Size (In.)	Description	Length (In.)
19201*	1/4 Fem Q.C. x 1/4 MFL	Quick coupler, 90°	1.75
19202*	1/4 Fem Q.C. x 3/8 MFL	Quick coupler, 90°	4.00
19210*	1/4 Fem Q.C. x 1/8 FPT	Quick coupler, 90° CH14 opener	6.00


19109

QUICK COUPLER, SEALRIGHT™

SealRight™ fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet nonventing regulations and preventing finger burns. Works with or without schrader core.

YELLOW JACKET

Part No.	Connection Size (In.)	Description	Length (In.)
19109*	1/4 SealRight™ Straight x 1/4 MFL	Coupler, Straight	6.00
19209*	1/4 SealRight™ 90°F x 1/4 MFL	Coupler, 90°	4.00


16C

QUICK COUPLER

- Automatic full depression of core valves without adjustment, regardless of core position.
- Coupler halves separately connect to access fitting and hose end, then easy push/pull operation automatically opens or closes system without loss of refrigerant.
- Conection: 1/4" male flare x 1/4" female flare quick connect

Imperial

Part No.	Description	Length (In.)
16C	Quick Connect, Straight	6.50
17C	Quick Connect, 90°	6.00
18C	Set of 2, 1 - 16C, 1 - 17C	6.00

A/C SERVICE TOOL KIT


TLB410AUR

MINI-SPLIT TOOL KIT

This kit is truly universal, including all of the tools and adapters required to access any R-410A mini-split or central A/C system on the market today. All applicable components meet or exceed 800 PSI working and 4000 PSI burst pressure rating to ensure compatibility and user safety.

cps

Part No.	Includes
TLB410AUR	2 Valve Piston Manifold, 5/16" FM x 1/4" SAE Male Core Remover / Installed Tool, 1/2" - 20 Brass Cap with Chain (10 PacK), (2) 1/4" SAE M x FM 5/16" FM ADPT, (2) 1/4" SAE Mx FM 5/16" FM 55 Degree Swivel Adapter, R-410a Clutch Type Concentric Flaring Tool with Ratchet (Imperial), Metric Torque Wrench Set: 17, 22, 24, 26, 27, aand 29 Jaw Sizes, Metric Hex Key Set: 1.5, 2, 2.5, 3, 4, 5, 6, and 8mm, Imperial Hex Key Set: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4", Square Tool Organizer, 13/16" Torgue Wrench Head, 3 PK 5' Premium Hoses 2ith Ball Valve Ends

QUICK CHARGER



535C

KWIK-CHARGE®

Accepts liquid refrigerant from the cylinder and discharges into low side of the system. Liquid charging required when using R-410A and other blended refrigerants. Charging hose is connected from Kwik-Charge outlet to low side of refrigeration system. Internal Kwik-Charge metering element reduces liquid flow to a level below capacity of compressor. This assures a safe, fast charge without endangering the compressor. Can be used with all fluorinated hydrocarbon refrigerant systems.

- Up to 8 times faster than vapor charging.
- No need to heat refrigerant cylinder.
- Built-in check valve opens for drawing unrestricted vacuum.
- No pressure drop in cylinder.
- One charger services all units 1/2 ton or larger.

Imperial

Part No.	Connection Size (In.)	System Size (Tons)
535C	1/4 FFL inlet x 1/4 MFL outlet	1/2 and larger

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TUBING TOOL


48224250

MINI COPPER TUBING CUTTER

The Milwaukee Mini Copper Tubing Cutter is designed to be the most durable mini cutter on the market. Featuring a Proprietary Adjustment Mechanism, Milwaukee Mini Tubing Cutters are engineered for 5X Longer Life. For added durability and extended performance, Chrome Rollers provide best in class rust protection. An Easy Grip Knob allows faster adjustment and easier use.

Part No.	Description
48224250	1/2" Mini Copper Tube Cutter
48224251	1" Mini Copper Tube Cutter


48224256

2 PC REPLACEMENT CUTTER WHEELS

The Milwaukee 2 PC Replacement Cutter Wheels are designed for use with Milwaukee Mini and Constant Swing Copper Tubing Cutters. Milwaukee replacement blades are constructed with high carbon steel for long life. Precision grinding delivers a sharp cutting edge. Optimized for cutting copper tubing.

Part No.	Description
48224256	Replacement Cutter Wheels 2pk


60072

TUBE CUTTER PARTS

YELLOW JACKET Tube Cutters are designed for softer thinner-wall materials such as copper, aluminum and brass.

Part No.	Description
60072*	1 pak cutter wheel for cutter 60121, 60142
60074*	1 pak screw for cutter wheel for cutter 60121, 60142
60077*	1 pak reamer screw and washer for cutters 60101, 60102, 60103
60078*	1 pak reamer for cutters 60101, 60102, 60103
60146*	1 pak large tube cutter for 2" to 5-1/8"
60079*	1 pin with detent for wheel for cutters 60101, 60102, 60103
60080*	1 pak screw for cutter wheel for cutters 60123, 60121
60081*	1 pak spare screw for cutter 60160
60082*	1 pak screw 74762 for Imperial 174-F, 274-F, 312-FB, 374-FC, TC 1000, TC 1020, TC 2050

Continued on next page

Part No.	Description
60083*	1 pak screw and nut 77511 for Imperial 206-FA
60085*	10 pak spare screw for cutter 60160
60088*	10 pak spare cutter wheels for cutters 60122 and 60160
60089*	10 pak cutter wheels 75015 for Imperial 174-F, 312-FB, 374-FC, TC 1000, TC 1020, TC 2050
60093*	Package one each wheel, pin for cutters 60101, 60102, 60103
60095*	5 pak reamer screws and washers for cutters 60101, 60102, 60103
60096*	5 pak reamers for cutters 60101, 60102, 60103
60097*	5 pak pins for wheel for cutters 60101, 60102, 60103
60098*	1 pak cutter wheel for stainless for cutters 60101, 60102, 60103
60099*	10 pak cutter wheels for stainless for cutters 60101, 60102, 60103
60100*	1 pak cutter wheel for copper for cutters 60101, 60102, 60103
60106*	1 pak constrictor wheel for cutters 60101, 60102, 60103
60107*	10 pak cutter wheels for copper for cutters 60101, 60102, 60103
60108*	1 pak screw for knob for cutters 60101, 60102, 60103
60110*	1 pak spare cutter wheel for cutters 60122 and 60160
60111*	1 pak cutter wheel 75015 for Imperial 174-F, 312-FB, 374-FC, TC 1000, TC 1020, TC 2050
60112*	1 pak cutter wheel for stainless 75046 for Imperial 174-F, 274-F, 312-FB, 374-FC, TC 1000, TC 1020, TC 2050
60113*	1 pak cutter wheel 74761 for Imperial 206-FA
60115*	10 pak cutter wheels for cutter 60139
60117*	10 pak constrictor wheels for cutters 60101, 60102, 60103
60120*	1 pak cutter wheel for cutter 60142
60124*	1 pak cutter wheel for cutter 60139
60125*	5 pak screws for cutter wheels for cutters 60123, 60121
60129*	5 pak screw for knob for cutters 60101, 60102, 60103
60136*	1 pak screw/retainer for cutter 60139
60140*	5 pak screws/retainers for cutter 60139
60141*	1 pak screw for cutter wheels for cutter 60146
60144*	1 pak cutter blade pin and clip for cutter 60142
60147*	1 pak cutter wheel for cutter 60146
60165*	1 pak replacement deburr tool for cutter 60139
60166*	1 pak replacement deburr tool for cutter 60146
60172*	1 pak screw for handle for cutter 60139
60130-REC*	Counter selection – tube cutter maintenance kit
60139*	1 pak tube cutter for 3/8" to 2-5/8"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TUBING TOOL


BTLH5E

HYDRAULIC TUBE EXPANDER KIT

The BlackMax BTLH5E Hydraulic Tube Expander Kit includes a premium hydraulic swaging tool that uses the power of hydraulics (fluid compression) to quickly and easily expand the ends of soft copper and aluminum tube for use in HVAC/R systems. Swaged tube ends eliminate the need for separate tube fittings.

- Premium, compact, cast aluminum hydraulic expander tool
- 5 quick-change, aluminum heads for swaging 3/8", ½", 5/8", ¾", 7/8" O.D. tube
- Heads are identical to, and fully interchangeable with BLACKMAX BTLE9/BTLE9M manually operated tube expander
- Steel expander blades are replaceable and identical to blades used in BLACKMAX BTLE9/BTLE9M
- Includes tube deburr tool and molded carrying case

cps

Part No.	Description	Includes
BTLH5E	Hydraulic Tube Expander Kit	tube inside/outside reamer, molded carrying case and color box (in 4 languages)


87001

PRO-FIT FLARING AND SWAGING KITS

- Precision flaring and swaging in seconds
- Burnishes surface reducing risk of leaks
- Durable see-through case for better tool visibility
- Color coded bits for Easy ID
- Stopper ensures a consistent length of the flare/swage surface
- Sold in a tool box for easy transportation
- Tip guides the bit into the tube and forms a standard 45? flare or consistent swage
- Standard 1/4" Hex Shank fits directly into most power tools without adapter
- Recommended for: copper & aluminum line sets, mini-split HVAC units, any application requiring a 45° flare

RECTORSEAL

Part No.	Includes
87001	five bell-shaped, color-coded, size-inscribed flaring bits designed for 1/4, 3/8, 1/2, 5/8 and 3/4-inch (6, 7.5, 12, 16, 19-mm) tubing, case
87011	6 size-inscribed swaging bits: 1/4, 3/8, 1/2, 5/8, 3/4 and 7/8", case

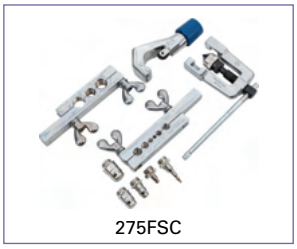

AFT31634

FLARING TOOL

- Orbiting forming head produces a smooth flare with an even wall thickness
- Easy to use clamping tool
- Stop to position tube in clamp
- 45° flare

IRP International Refrigeration Products

Part No.	Includes
AFT31634	Flaring Tool, 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"


275FSC

FLARE/SWAGE KIT

Flares and swages. Converts quickly. Screw-type feed. Swivel-type swaging adapters and flaring cone are hardened steel chrome-finished for easy operation. For soft copper, aluminum, steel, stainless steel and brass tubing.

Imperial

Part No.	Includes
275FSC	tube cutter for 1/8" to 1-1/8" O.D. tubing and 275-FS 45° flaring and swaging tool, tool case


93FB

DOUBLE FLARE

Recommended for Bundy and other annealed soft steel tubing (wall thickness to .035"). Also makes single or double flares in soft copper or aluminum tubing. Includes tool case.

Imperial

Part No.	Includes
93FB	Tube for For 3/16", 1/4", 5/16", 3/8" and 1/2" O.D. tubing, case


525F

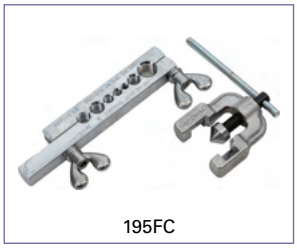
UNIVERSAL GRABBER® FLARE

Self-adjusting tube holding mechanism permits flaring any size tubing within the range of 3/16" to 5/8" OD.

- 45° flare

Imperial

Part No.	Description
525F	"Grabber"™ Rol-Air™ 45° Flaring Tool, Flares and burnishes


195FC

FLARING TOOL, 45°

- Flares 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8" OD tubing

Part No.	Description
195FC	Wing Nut Yoke, Satin Finish Nickel-Chrome Plate


500FC

FLARING TOOL, ROL-AIR®

- 45° flare

Part No.	Description
500FC	Flare tool, Rol-Air R, 45°, block detention flare system


60240

FLARE KIT

- 45° flare tools

Part No.	Description
60240*	Flare kit, 45°, two bars, includes 60230


60407

EXPANDER/SWAGER KIT

With long handles for comfortable leverage, easily expand 5/16" to 1-5/8" O.D. soft copper and aluminum tubing in seconds.

- Re-round deformed tubes and fittings
- Salvage shorts and scrap to make couplings
- Handles, tapered expanding pin, and other moving surfaces heat treated for durability
- Use on 0.063" wall soft copper and aluminum to 1-5/8" O.D. (anneal hard copper prior to use)
- Use on 0.047" wall soft steel to 7/8" O.D.
- Kit includes six expander heads; three optional sizes sold separately

Part No.	Tube Size (In.)	Includes
60407*	3/8, 1/2, 3/4, 7/8, 1-1/8	Expander Kit with Handles; heads for Tubing; Deburring Tool, Carrying Case, Instructions


60230

HEAVY DUTY 45° FLARING TOOL

Designed for tight places, features:

- Hardened steel flaring bar to resist tube slippage.
- Forged steel yoke that slips over bar and locks with a turn.
- Precision threaded feed screw and long handle to insure smooth and easy operation.

Part No.	Description
60230*	Flare tool, heavy duty, 45°


60295

ECCENTRIC CONE FLARING TOOL

- Large feed screw handle for smooth turning with little effort
- Black oxide-finished steel flaring bars are heat-treated for durability and secure grip on tubing
- Recommended for soft materials such as copper and aluminum

Part No.	Description
60295*	Flaring Tool with Eccentric Cone


60278

DELUXE FLARE

- The only full range 1/8" to 3/4" O.D. flaring tool available for copper, brass and aluminum tubing
- Automatic tube height gauge
- Self-centering flaring yoke for more precise flares
- Multifaceted burnishing cone rolls out smooth, polished flare seat that matches fitting
- Use in tight places

Part No.	Description
60278*	Flare tool, deluxe, for copper, brass and aluminum tubing


60270

FLARE/BURNISH

- Multifaceted cone rolls a precise flare and simultaneously polishes it on brass, copper and aluminum

Part No.	Description
60270*	Flare/burnish tool

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TUBING TOOL



SPIN300F

FLARING SPIN SET

High temperature flaring system for copper and aluminum tubing: preserves copper/aluminum malleability while doing the flaring, avoiding cracks and leakage.

- Heat by friction: revolutionizing system for molding tubes
- No more leakages: way more surgace of contact between the flare and the valve
- Flaring stopper: right flaring size, every single time
- Flares in 5 seconds: up to 10x faster than conventional tools
- Designed to last longer than 100,000 times
- Ideal for ductless A/C and mini splits applications

The SPIN tools are designed to work along with drills or screwdrivers, with minimum of 1,800 RPM and 500 watts for corded drills, or superior and 1,800 RPM and 18V, or superior, for cordless drills.

Part No.	Includes
SPIN300F	Set of 5: 1/4", 3/8", 1/2", 5/8", 3/4"
F6000	Set of 6: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8"



174F

IMP® CUTTER

Designed for use in tight quarters where other cutters won't fit.

Part No.	Description
174F	Big "IMP" - Easily completes a full revolution, maximizing leverage - Six independent drive pawls provide 15° arc-swing
TC1050	"IMP" cutter in tight quarters - Taller knob height for easier torque



ATC34

TUBE CUTTER

Made of hardened stainless steel

Part No.	Description
ATC34	Tube cutter, 1/8" to 1-5/8" OD
ATC114	Tube cutter, 1/8" to 1-1/4" OD
ATC158	Tube cutter, 1/8" to 1-5/8" OD
ATC258	Tube cutter, 1/8" to 1-5/8" OD



40617

TUBE CUTTER AND ACCESSORIES

Part No.	Description
40617	101 Close Quarters Tubing Cutter
32975	103 Close Quarters Tubing Cutter
32985	104 Close Quarters Tubing Cutter
33210-RIDGE	134 Cutter Wheel for Plastic
31622	150 Constant Swing Tubing Cutter
31632	151 Quick-Acting Tubing Cutter
31642	152 Quick-Acting Tubing Cutter
31652	154 Quick-Acting Tubing Cutter
34370-RIDGE	392 Tubing Cutter Rolls (5 Pack)
32940	#30 Screw Feed Tubing & Conduit Cutter
31627	150 Constant Swing Tubing Cutter with Heavy-Duty Wheel
32925	#15 Tubing & Conduit Cutter with Heavy-Duty Wheel
34360	Screw (5 Pack)
34615-RIDGE	Roll Screw #15 Cutter E-3245 (5 Pack)
33110-RIDGE	Heavy Duty Replacement Cutter Wheel
34670-RIDGE	Large Tubing Cutter Guide Roller 4 Pack
33195-RIDGE	Tubing Cutter Replacement Wheel for Plastic
44190	Pipe Cutter Replacement Wheel For Use With: Model 820 Cutter
44185	Pipe Cutter Replacement Wheel For Use With: Model 360, 820, 364 and 732 Pipe/Tube Cutters



3950015

CUTTER PARTS

Part No.	Description
3950015	Cutting Wheel Kit for ATC34
3950017	Cutting Wheel Kit for ATC114
3950018	Cutting Wheel Kit for ATC158
3950025	Bearings for ATC34, Pkg of 2
3950026	Bearings for ATC118 , Pkg of 2
3950027	Bearings for ATC114 , Pkg of 2
3950028	Bearings for ATC158 , Pkg of 2

LARGE DIAMETER CUTTER


206FB

Ratchet feed mechanism opens quickly to insert tubing, slides to cutting position instantly, fine feed adjustment for cutting action. Extra wide rollers with flare cut-off groove.

Part No.	Description
206FB[1]	Tube cutter, large diameter, 3/8" to 2-5/8" OD, 7-3/4" L (closed)
406FA[1]	Tube cutter, large diameter, 2" to 4-1/8" OD, 7-3/4" L (closed)

[1] Closed

CUTTER PARTS


75015

Part No.	Description
75015	Cutting Wheel, General Purpose
75046	Cutting Wheel, Stainless, Hard Temper
32633	Cutting Wheel
74833	Cutting Wheel
74761	Cutting Wheel
74762	Cutter Wheel Screw
26883	Cutter Wheel Screw
74834	Cutter Wheel Screw
77511	Cutter Wheel Screw

HEAVY DUTY CUTTER


TC1000

Cutters include rollers with flare cut-off groove, fold away reamer and spare cutting wheel (except 227FA). Rugged aluminum alloy body designed for handling ease. Finish: hand buffed high luster nickel-chrome plated body.

Part No.	Description
TC1000	Tube cutter, heavy duty, 1/8" to 1-1/8" OD, 5" L
312FC	Tube cutter, heavy duty, 1/4" to 1-5/8" OD, 5-1/2" L

CUTTER


60101

- Enclosed precision feed mechanism for easy, smooth cutting
- Spare wheel attached
- Retractable reamer: fold away tool steel reamer with turned cutting edge

Part No.	Description
60101*	Tube cutter, 1/8" to 1-1/8" OD
60102*	Tube cutter, 1/4" to 1-5/8" OD
60103*	Tube cutter, 1/4" to 1-1/8" OD, constrictor wheel included

MINI CUTTER


60160

- Wide body for easy grip
- Large rollers and flare cut-off groove

Part No.	Description
60160*	Tube cutter, mini, 1/8" to 5/8" OD
60121*	Tube cutter, mini, 1/8" to 7/8" OD
60142*	Tube cutter, mini, 1/4" to 1-1/8" OD

HAND SWAGGING TOOL


HST78

Part No.	Tube Size (In.)	Description
HST78	3/8, 1/2, 3/4, 7/8	Hand swaging tool, tube expander

SWAGE PUNCH


93S04

- Individual tools

Part No.	Tube Size (In.)	Description
93S04	1/4	.035 Wall Thickness Swaging Tool
93S05	5/16	.035 Wall Thickness Swaging Tool
93S06	3/8	.035 Wall Thickness Swaging Tool
93S08	1/2	.035 Wall Thickness Swaging Tool
93S10	5/8	.035 Wall Thickness Swaging Tool
93S12	3/4	.035 Wall Thickness Swaging Tool
93S14	7/8	.045 Wall Thickness Swaging Tool

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TUBING TOOL

SWAGE PUNCH


60464

YELLOW JACKET

Part No.	Tube Size (In.)	Description
60464*	1/4	Swage punch
60465*	5/16	Swage punch
60466*	3/8	Swage punch
60467*	1/2	Swage punch
60468*	5/8	Swage punch
60469*	3/4	Swage punch
60470*	7/8	Swage punch
60463*	3/16	Punch Type Swaging Tool
60460*	3/16 - 5/8	Multi Swage Punch, 6 Size

SWAGE TOOL SET


94S

Imperial

Part No.	Tube Size (In.)	Description
94S	1/2, 5/8, 7/8	3 in 1 Swage Tubing Set
193S	1/4, 3/8, 1/2, 5/8	Swage tool set, 4 punches, vinyl case
195SA	1/4, 3/8, 1/2, 5/8	4 Punch, Flare Bar, Metal Case

SWAGE SET

- Single tools are 6046 Series


60475

YELLOW JACKET

Part No.	Tube Size (In.)	Description
60475*	1/4, 3/8, 1/2, 5/8	4 pcs. in pouch
60476*	1/4, 5/16, 3/8, 1/2, 5/8	5 pcs. in pouch


63331

ALLOY RATCHET TUBE BENDER KIT

The YELLOW JACKET® Alloy Ratchet Tube Bender Kit creates smooth and consistent bends when working with 1/4" to 7/8" soft copper, aluminum and light wall hydraulic tubing. The mandrel attachment ball-detent feature and color-coded mandrels make it easy to switch between different tubing sizes. The simple, yet powerful ratcheting mechanism is easy to actuate.

- Simple and secure mandrel attachments with ball-dent feature
- Smooth and consistent bends every time
- Bend 3/4" tube to 90? in less than 10 seconds
- Trouble-free ratchet mechanism
- Quick change bending mandrels and shoes to rapidly move from one size tubing to the next
- Cutter and reamer helps prepare tubing
- Durable, hard plastic case
- One-year warranty

YELLOW JACKET

Part No.	Tube Size (In.)	Description
63331*	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8	Kit with color coded alloy mandrels


BTB300

BLACKMAX TUBING BENDER KIT

Used for cutting, deburing, flaring, expanding and bending soft copper and aluminum tubing. BlackMAX tubing tools also include a line of 2 and 3 jaw gear pullers

- Easy to Use
- Color Code System
- Solid Aluminum Mandrels
- Reverse Bend Mechanism

cps

Part No.	Tube Size (In.)	Description
BTB300	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8	Ratcheting Tube Bender w/ Reverse Bend

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367FH

3-WAY BENDER

Calibrated markings for making accurate left-hand, right and offset bends.

Part No.	Tube Size (In.)	Description
367FH	1/8, 3/16, 1/4	9/16" bend radius
TB38	3/16, 1/4, 5/16, 3/8	15/16" bend radius


370FH

LEVER BENDER

- For soft copper, aluminum, and thin wall steel tubing.
- Makes smooth, tight radius 180° bends.
- Calibrated markings - for making accurate left-hand, right-hand and offset bends.
- Adjustable hook.
- Cushion grips - for extreme comfort.
- Made of lightweight die-cast aluminum.

Part No.	Tube Size (In.)	Description
370FH	3/16, 1/4, 3/8, 1/2	Lever tubing bender, 4 way


364FHA04

LEVER BENDER

- For bending annealed copper and aluminum tubing only.

Part No.	Tube Size (In.)	Bend Radius (In.)
364FHA04	1/4	9/16
364FHA06	3/8	15/16
364FHA08	1/2	1 1/2
364FHA10	5/8	2 1/4
364FHA12	3/4	3
364FHA14	7/8	3


60373

LEVER BENDER

- Bends tubing to 180° angle

Part No.	Tube Size (In.)	Bend Radius (In.)
60373*	1/4	9/16
60374*	5/16	11/16
60375*	3/8	15/16
60377*	1/2	1 1/2
60378*	5/8	2 1/4
60379*	3/4	3
60380*	7/8	3
60390*	1/4, 5/16, 3/8	15/16


ADT100

DEBURRER

- Deburring tool with swivel tip, two spare tips in handle

Part No.	Description
ADT100	Deburring Tool
3950019	Blade for ADT100


R308

DEBURRER

- Pocket size reamer deburrs nominal 1/4" or larger tubing and fittings
- Freely rotating, hardended steel blade holds its edge in both copper and ABS/PVC plastic

Part No.	Description
R308	Deburring Tool

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TUBING TOOL

DEBURRER


60163

Part No.	Description
60163*	Deburring Tool
60164*	Replacement Blade

DEBURRER/REAMER


IOTR1

Part No.	Description
IOTR1	Works on Inside and Outside Diameters. Easy to use for deburring. Suitable for 1/8" - 1 5/8" ID/OD Tubing. Mutli-blade Alloy Steel Internal blade

TEST PLUG


140F14

For temporary shut-off of tubing without pinching it off or installing a valve. Especially handy for plumbing, heating, refrigeration and instrumentation when troubleshooting for leaks. Expander seals tube and holds pressures to 100 psi.

Part No.	Tube Size (In.)
140F14	7/8
140F18	1 1/8

PINCH-OFF


105FF

Temporarily closes tubing for service, then reopens to allow flow.

Part No.	Tube Size (In.)
105FF	1/4, 5/16, 3/8, 1/2

ACCESS TOOL


SF4311

Fast refrigerant recovery with pliers that clamp on and pierce tube. Pliers work on copper tubing sizes ranging from 1/4" to 7/8" OD. Adjust pliers to proper size, align tip to the center of tube, clamp down and pierce with quick action. Needle is self-sharpening, but also easily replaceable.

Part No.	Description
SF4311	"FasTap" Tube Piercing Pliers
SF4314	Replacement Needle

ACCESS TOOL


QT100

The fastest and easiest way to evacuate refrigerant before disposal of a unit. Snaps onto refrigerant line for full and immediate flow. One tool fits all sizes from 3/16" to 7/8" O.D. hard tubing. Replaceable needle.

Part No.	Description
QT100*	Vise Grip Connection Tool
QT100N*	Replacement Needle

PVC CUTTER


70078

- Cuts to 1 5/8" OD
- 70080: replacement blade

Part No.	Description
70078	PVC Pipe Cutter
70080	Replacement Blade
70087	PVC Cutter; Ratcheting 2"

FLARE/SWAGE KIT


60440

This combination tool both 45° flares and swages copper and similar materials. Kit comes complete with six swage adapters, flaring cone, flaring bars, yoke plus a deluxe case.

- Size range: 3/16" to 3/4" OD, 7 sizes

Part No.	Includes
60440*	swage adapters (6), flaring cone, flaring bars, yoke, case

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SCREWDRIVER

SLOTTED



NRE10653

Part No.	Blade Width (In)	Insulated	Shank Length (In)
NRE10653	9/64	No	3
NRE47758	9/64	No	5

SLOTTED CABINET TIP



A216-6

The narrow cabinet tip of this screwdriver gives your blade access in places where space is limited. Klein's exclusive Cushion-Grip™ handle offers greater torque and outstanding comfort. The patented Tip- Ident® quickly identifies the type of screwdriver and screwdriver tip orientation. Premium chrome plated for smooth feel and corrosion resistance.

Part No.	Description	Blade Width (In)	Insulated	Shank Length (In)
A216-6*	Round shank	1/8	No	6
601-3*	Round shank	3/16	No	3
601-4*	Round shank	3/16	No	4
601-6*	Round shank	3/16	No	6
601-8*	Round shank	3/16	No	8
601-10*	Round shank	3/16	No	10
70155*	Round shank	3/16	No	20
600-1*	Round shank	1/4	No	1 1/2
60510*	Round shank	1/4	No	10
605-6*	Round shank - Heavy Duty	1/4	No	6
605-8*	Round shank - Heavy Duty	1/4	No	8
6073*	Round shank - Mini	3/32	No	3
6084*	Round shank - Mini	1/8	No	4
6086*	Round shank - Mini	1/8	No	6
6056B*	Round shank - Wire bending	1/4	No	6



BD156

SLOTTED KEYSTONE TIP

Klein Tools Keystone-Tip Screwdrivers are designed for demanding applications. The precision machined tip provides an exact fit. Durable Cushion-Grip™ handles are designed for comfort and added torque.

Part No.	Description	Blade Width (In)	Insulated	Shank Length (In)
BD156*	Round shank	5/16	No	6
6024*	Round shank	1/4	No	4
BD144*	Round shank	1/4	No	4
602-8*	Round shank	3/8	No	8
602-10*	Round shank	3/8	No	10
602-3*	Square shank	7/32	No	3
600-6*	Square shank	5/16	No	6
BD306*	Square shank	5/16	No	6
600-4*	Square shank	1/4	No	4
6008*	Square shank	3/8	No	8
BD412*	Square shank	3/8	No	12
600-12*	Square shank	1/2	No	12



606-2

SLOTTED MINIATURE ROUND SHANK

Precision formed tip provides an exact fit for small screw applications.

Part No.	Description	Blade Width (In.)	Shank Length (In.)
606-2*	Keystone, Round shank	1/16	2
6083*	Cabinet, Round shank	1/8	3
608-8*	Cabinet, Round shank	1/8	8



6124

SLOTTED TERMINAL BLOCK SCREWDRIVER

- Precision machined tip provides exact fit for terminal block screws.
- Tip is up to 19% stronger than competitors.
- Tip provides 76% higher torque value than the required ASME B107 Standard
- Cushion-Grip handle offers greater torque comfort.

Part No.	Description
6124*	Round shank

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SCREWDRIVER


6027DD

SLOTTED DEMOLITION SCREWDRIVER

- Cushion-Grip handle allows for greater torque and comfort.
- Patented Tip-Ident® quickly identifies the screwdriver type and tip orientation.
- Premium chrome plated for smooth feel and corrosion resistance.
- Internal flanges inside handle provide solid, twist-resistant blade anchor.
- Special heat-treated shafts.
- Precision-machined tip for exact fit.
- Meets or exceeds applicable ASME / ANSI specifications.
- Plated metal strike cap to protect handle from hammer blows.
- Heat treated metal shaft runs complete length of handle to metal strike cap to transfer metal strike force.

Part No.	Description
6027DD*	Round shank


85075

SLOTTED CUSHION GRIP SET

General-purpose selection of the most frequently used screwdrivers. Each set includes a reusable plastic container.

Part No.	Description	Includes
85075*	5-piece	Screwdrivers, 5/16", 1/4", 3/16", 1/4" Cabinet Tip, (6.4 mm to 7.9 mm) #2 Phillips
85078*	8-piece	Screwdrivers: 1-1/2" round shank: 5/16" Cab, #2 Ph; 3" round shank: 3/16" Cab, #1Ph; 4" square shank: 1/4" Key; 4" round shank: #2Ph; 6" round shank: 5/16" Key, #3 Ph


NRE10776

PHILLIPS

Part No.	Insulated	Shank Length (In)	Tip Number
NRE10776	No	3	1


6033

PHILLIPS PROFILATED TIP

The Klein Tools Phillips round Shank Screwdriver is precision-machined for an accurate fit and torque without slippage. This Cushion-Grip™ Handle Screwdriver offers the comfort needed for all day work. Its Tip-Ident® quickly identifies screwdriver type and tip orientation.

Part No.	Description	Insulated	Shank Length (In)	Tip Number
6033*	Round shank	No	3	1
603-1*	Round shank - Stubby	No	1 1/2	2
603-4*	Round shank	No	4	2
6037*	Round shank	No	7	2
603-10*	Round shank	No	10	2
P212-KLEIN*	Round shank - Profilated	No	12	2
603-6*	Round shank	No	6	3


85484

MINIATURE CUSHION GRIP

The Klein Tools 4-Piece Screwdriver Set is perfect for precise applications. These screwdrivers have mini Cushion-Grip™ handles that provide a comfortable grip, while the Tip-Ident® system quickly identifies the type of screwdriver and tip orientation. The set includes 3 flat head screwdrivers and #1 Phillips head screwdriver with precision tips that ensure an exact fit. The premium chrome-plated shafts resist corrosion, making them a durable and long-lasting addition to your tool collection. This set is made in the USA, ensuring high-quality craftsmanship.

Part No.	Includes
85484*	Phillips Tip #0: Keystone Tip 1/16": Cabinet Tip 3/32" and 1/8" Cabinet Tip


32398

MULTI-BIT

The bits reverse in the tube and the tube reverses in the handle.

- 6-in-1: same features with 5/16" and 1/4" hex nut driver

Part No.	Description	Use with
32398*	Bit #1 Phillips 1/4-Inch Slotted	Heavy Duty (32557), Ratcheting (32558) and Stubby (32561)
32483*	Bit #2 Phillips 1/4-Inch Slotted	10-in-1, 11-in-1 and 10-Fold™

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Part No.	Description	Use with
32412*	Bit for Stubby #2 PH 3/16-Inch Slotted	Stubby Driver (32561)
13391*	Bits, 4-in-1 Electronics, PH 0, SLTD 3/32-Inch	4-in-1 Electronics Screwdriver (32581, 32585)
13392*	Bits, 4-in-1 Electronics, PH 00, SLTD 1/8-Inch	4-in-1 Electronics Screwdriver (32581, 32585)
32397-KLEIN*	Replacement Bit #2 Phillips, #1 Square	11-in-1 and 11-in-1 Magnetic Multi-Bit Screwdriver / Nut Drivers (Cat. Nos. 32500, 32500-MAG)
32400*	Replacement Bit #2 Phillips, #1 Phillips	Extended Reach (32559)
32479*	Replacement Bit, #2 Phillips, 9/32-Inch Slotted	5-in-1 (32476)
32482*	Replacement Bits 1 PHIL - 3/16" Slotted	10-in-1, 11-in-1 and 10-Fold™
32484*	Replacement Bits 1 SQ - 2 SQ	10-in-1, 11-in-1 and 10-Fold™
13231*	Replacement Bits, 1/8-Inch Slotted and Schrader®	HVAC 8-in-1 Slide Driver™ Screwdriver/Nut Driver (32596) and 11-in-1 Multi-bit Screwdriver (Cat. No. 32527)
32528*	Replacement schrader bit F/32527 2-pack	All Klein Tools 2-in-1, 10-in-1, 11-in-1 and 10-Fold Screwdrivers
32392-KLEIN*	Heavy Duty Main Barrel Replacement	11-in-1 and 11-in-1 Magnetic Multi-Bit Screwdriver / Nut Drivers (Cat. Nos. 32500, 32500-MAG)


32559

MULTI-BIT SCREWDRIVER

Klein Tools Multi-Bit Tap Tool Driver increases your job speed by combining your taps and drivers in one tool. Available in six common tap sizes, the tool comes with four screwdriver tips and three nut driver sizes. The large Cushion-Grip™ handle provides greater torque and comfort. Work smarter and lighten your tool bag with the Multi-Bit Tap Tool Driver.

Part No.	Description	Includes
32559*	6-in-1	Nut Driver Sizes 1/4", 5/16": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16"
32557*	10-in-1	Nut Driver Sizes 1/4", 5/16", 3/8": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16": Square Bits #1, #2: Hex Bits 3/8"
32477*	10-in-1	Nut Driver Sizes 5/16", 1/4": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16": Square Bits #1, #2: TORX® Bits T10, T15
32527*	11-in-1	Nut Driver Sizes 3/8", 5/16", 1/4": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16": Square Bits #1, #2: Other Bits Schrader Valve Insertion, Core Removal
32517*	14-in-1	Nut Driver Sizes 1/4", 5/16", 3/8": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16": Other Bits Taps - 6-32, 8-32, 10-32, 10-24, 12-24, 1/4-20
32314*	14-in-1	Nut Driver Sizes 9/64", 5/32", 3/16", 7/32", 1/4", 5/16": Phillips Bit #00, #0: Slotted Bits 3/32", 1/8": TORX® Bits Tamperproof TT7, TT8, TT10, TT15

Continued on next page

Part No.	Description	Includes
32307*	27-in-1	Nut Driver Sizes 1/4": Hex bits Tamperproof: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 2 mm, 2.5 mm, 5 mm, 3 mm: Torx® bits Tamperproof: T7, T8, T10, T15, T20, T25, T27, T30, T40: Other Bits TORQ-SET® TS6, TS8, TS10; Tamperproof Spanner: SP4, SP6, SP8, SP10


32561

MULTI-BIT, STUBBY

- Multi-bit stubby screwdriver / nut driver with compact interchangeable shaft holds 4 universal tips and converts to 2 nut driver sizes
- Cushion-Grip™ handle provide greater torque and comfort
- Non-insulated
- Compact design allows easy access to tight work spaces

Part No.	Includes
32561*	Nut Driver Sizes 1/4", 5/16": Phillips Bits #1, #2: Slotted Bits 3/16", 1/4"


32593

MULTI-BIT, RATCHETING STUBBY

- Stubby screwdriver with ratcheting mechanism that allows user to work faster and with more efficiency
- Cushion-Grip handle for maximum torque and comfort
- Designed for work in close quarters

Part No.	Description	Includes
32593*	6-in-1	Nut Driver Sizes 1/4", 5/16": Phillips Bits #1, #2: Slotted Bits 1/4" , 3/16"


32613

MULTI-BIT, ELECTRONICS SCREWDRIVER

- Includes 0 and 00 Phillips plus 1/8" and 3/32" Slotted tips
- Rotating cap for optimum and precise control
- Cushion-Grip handles for maximum comfort when working on small equipment
- Heat treated precision ground tip for greater strength

Part No.	Description	Includes
32613*	3-in-1	Phillips Bits #0: Slotted Bits 1/8": Other Bits Schrader® Valve Core Removal
32614*	4-in-1	Phillips Bits #00, #0: Slotted Bits 3/32" (2.4 mm), 1/8" (3.2 mm)

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SCREWDRIVER

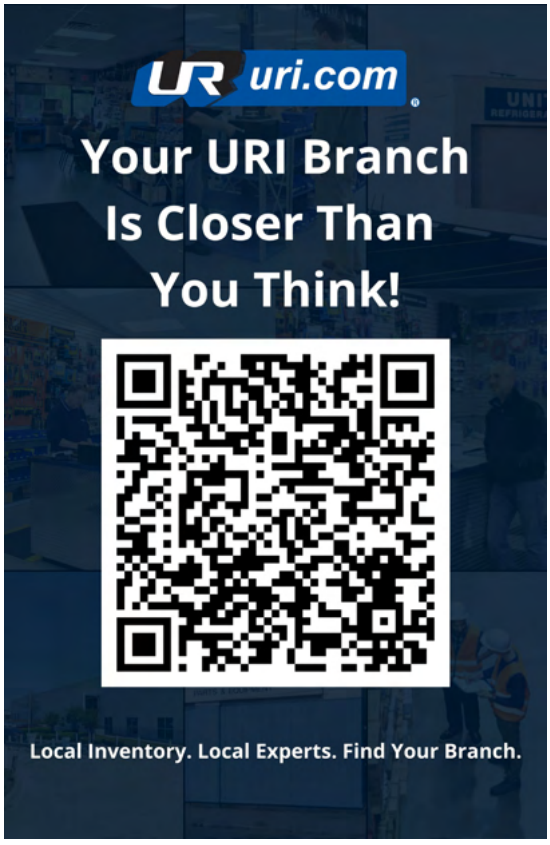

85515HD

FLIP SOCKET, MINI RATCHET AND MULTI-BIT DRIVER SET, 3-PIECE

- Mini Ratchet and Multi-Bit Driver Set with a slim profile ratchet (Cat. No. 65200) Stubby handle with 2 flip sockets, 7 screwdriver bits, impact rated shaft (Cat. No. 32308HD)
- Ratchet with a 1/4-Inch and a 5/16-Inch nut driver head and a ring magnet and bit clip for fastener and bit retention
- 5-in-1 Flip Socket includes 1/4, 5/16, 3/8 and 7/16-Inch sockets plus a 1/4-Inch bit holding feature
- The 72-tooth ratchet only needs a 5-Degree sweep for tight areas
- Compact driver reaches easily into tight spots
- Screwdriver bit sizes include #1, #2, #3 Phillips, 3/16-Inch (5 mm) and 1/4-Inch (6 mm) slotted, #1, #2 square
- Industrial-strength bits that are conveniently housed in the handle

KLEIN TOOLS

Part No.	Descrip-tion	Includes
85515HD	3-Piece	65200 Slim-Profile Mini Ratchet; 32932 5-in-1 Flip Socket; 32308 8-in-1 Multi-Bit Stubby Screwdriver




32910

7-IN-1 IMPACT RATED FLIP SOCKET SET WITH HANDLE

The 7-in-1 Impact Flip Socket Set provides 6 Hex nut driver sizes and a 1/4-Inch bit holding feature. The versatility provided allows for convenient swapping between the common nut driving sizes and quickly attaches to the included quick-connect handle. Every component is impact rated, making it an essential tool for the toughest driving applications.

- Impact Flip Socket Set includes 3 flip sockets, a 1/4-Inch bit holding feature, and a quick-connect handle
- Hex shaft and sockets are impact-rated and designed for heavy-duty applications
- Rare-Earth magnet to retain fasteners for convenient and easy driving
- Color-coded hex sizes for easy size identification
- Flip sockets can be stored in any order or orientation on the shaft
- Cushion-Grip™ handle allows for greater torque and comfort
- Shallow socket depth optimized for hex head fasteners

KLEIN TOOLS

Part No.	Descrip-tion	Includes
32910	7-in-1	Drive Size 1/4"; Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" Hex


32596

8-IN-1 SLIDE DRIVER™ SCREWDRIVER/NUT DRIVER

- Unique, patented head slides back and forth to switch from 1/4 inch to 5/16 inch magnetic hex-head screwdriver
- Thumb nut locks tip setting
- Features a specialty bit for installation/removal of common TR-4 Schrader® valves
- Cushion-Grip handle for greater torque and comfort
- Great for HVAC applications including thermostat installation and control work

KLEIN TOOLS

Part No.	Descrip-tion	Includes
32596*	8-in-1	Nut Driver Sizes 1/4" Magnetic, 5/16" Magnetic, 1/4", 3/8": Phillips Bits #2: Slotted Bits 1/8, 1/4": Other Bits Schrader® Valve Core Removal

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


32717

ALL-IN-1 PRECISION SCREWDRIVER SET WITH CASE

- Precision screwdriver set includes 39 bits for various applications including repair of most Apple® products
- Powerful magnets inside barrel to better retain bits, as well as pick-up and hold fasteners
- Reversible barrel has standard and extended-reach ends
- Compact carrying case features a stay-shut latch and extra-long bits for easier access
- Spin cap offers optimum and precise control
- Industrial-strength heat treated bits
- Cushion-Grip handles for maximum comfort
- Apple® is registered trademarks of Apple Inc; TORX® is a registered trademark of Acument Intellectual Properties, LLC; Tri-Wing® is a registered trademark of Phillips Screw Compan

KLEIN TOOLS

Part No.	Includes
32717	Phillips Bits #000, #00, #0, #1, #2: Slotted Bits 1 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm Square Bits #1, #2: Hex Bits 0.9 mm, 1.3 mm, 1.5 mm, Tamperproof: 2 mm, 2.5 mm, 3 mm, 3.5 mm: TORX® Bits T3, T4, Tamperproof - T5, T6, T7, T8, T9, T10, T15: Other Bits Triangle - #2, #3; Pentalope - P2, P5; Tri-Wing® - Y000, Y0, Y1; Stand Off; Spanner - #4, #6


32931M

MULTI-BIT

- Integrated screwdriver/nut driver shaft holds 8 popular tips and converts to up to 3 nut driver sizes
- End of handle is marked to quickly identify tool
- Each tool includes #1 and 2 phillips, 1/4 and 3/16" slotted, #1 and 2 square recess, 1/4, 5/16 nut drivers
- 32477 also includes: #10 and 15 TORX®
- 32527 also includes: 3/8" nut drivers, Schrader® valve core removal/installation, core extractor
- 32558 also includes: 3/8" nut drivers, 3/8" hex driver
- 32304 14-in-1 HVAC Adjustable-Length Impact Screwdriver with Flip Socket
- 32900 7-in-1 Impact Flip Socket with Handle
- 32768 3-in-1 Impact Flip Socket Set, 1/4-Inch, 5/16-Inch, 2-Piece
- 32910 Hex sizes include 1/4-Inch, 5/16-Inch, 3/8-Inch, 7/16-Inch, 1/2-Inch, and 9/16-Inch

KLEIN TOOLS

Part No.	Descrip-tion	Includes
32931M*	2-in-1	Drive Size 1/4": Socket Size 8 mm, 10 mm Hex
32766*	3-in-1	3" - Hex sizes: 5/16-Inch, 1/4-Inch shallow (driver) and 1/4-Inch deep (bit holder)
32767*	3-in-1	5" - Hex sizes: 5/16-Inch, 1/4-inch shallow (driver) and 1/4-Inch deep (bit holder)
32768*	3-in-1	2 Piece - Hex sizes: 5/16-inch, 1/4-Inch shallow (driver) and 1/4-Inch deep (bit holder)
32933M*	6-in-1	Drive Size 1/4": Socket Size 7 mm, 8 mm, 10 mm, 12 mm, 13 mm, 14 mm
32933*	7-in-1	Drive Size 1/4": Socket Size 1/4", 5/16", 3/8", 7/16", 1/2" and 9/16" Hex
66070*	7-in-1	Drive Size 1/4" Hex, 1/2" Square: Socket Size 3/8 x 7/16", 1/2 x 9/16", 5/8 x 11/16", 3/4 x 13/16", and 7/8 x 15/16"
32934*	9-in-1	Drive Size 1/4": Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4" Hex
32500*	11-in-1	Nut Driver Sizes 3/8", 5/16", 1/4": Phillips Bits #1, #2: Slotted Bits 1/4" (6.4 mm), 3/16" (4.8 mm): Square Bits #1, #2: TORX® Bits T10, T15
32304*	14-in-1	Nut Driver Sizes 1/4", 5/16": Phillips Bits #0, #1, #2: Slotted Bits 1/8", 3/16", 1/4": Square Bits #2: TORX® Bits T10, T15: Other Bits #2 JIS Bit, Schrader Valve Insertion Bit, and Core Removal Bit

Continued on next page


32500HD

11-IN-1 IMPACT RATED MULTI-BIT SCREWDRIVER/NUT DRIVER

- Impact rated multi-bit screwdriver / nut driver can be used interchangeably with a 1/4-Inch impact driver
- Includes impact rated 1/4-Inch, 5/16-Inch and 3/8-Inch power nut drivers, 1/2-Inch standard nut driver, #1, #2 Phillips, 1/4-Inch and 3/16-Inch slotted, #1, #2 square recess, and T25 TORX®
- Interchangeable components for fast and easy switch outs; comfortable Cushion-Grip™ handle
- Precision machined bit tips provide a firm hold and reduce cam-out
- Integrated magnetic bit holder also serves as a magnetic 1/4-Inch power nut driver
- Color coded power nut drivers for easy size identification
- TORX® is a registered trademark of Acument Intellectual Properties, LLC
- Patent pending design

KLEIN TOOLS

Part No.	Descrip-tion	Includes
32500HD	11-in-1	Nut Driver Sizes 1/2", 3/8", 5/16", 1/4": Phillips Bits #1, #2: Slotted Bits 1/4", 3/16": Square Bits #1, #2: TORX® Bits T25

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCREWDRIVER


32303HD

20-IN-1 IMPACT DRIVER SET WITH SCREWDRIVER BITS AND FLIP SOCKETS

- 13 screwdriver bits, 6 nut setter sizes and a 1/4-Inch bit-holder all in one compact tool
- Impact-rated sockets and screwdriver bits for the toughest driving applications
- Store screwdriver bits within the handle and flip sockets on the shaft for convenient carry
- Patented bit holding design allows the 1/4-Inch socket size to drive hex fasteners and hold screwdriver bits
- Powerful Rare-Earth magnet to retain bits and hex bolts within sockets
- TORX® is a registered trademark of Acument Intellectual Properties, LLC

KLEIN TOOLS

Part No.	Description	Includes
32303HD	20-in-1	Nut Driver Sizes 1/4", 5/16", 11/32", 3/8", 7/16", 1/2": Phillips Bits #0, #1, #2, #3: Slotted Bits 3/16", 1/4": Square Bits #1, #2: Combo Bits #2: TORX® Bits T10, T15, T20, T25


32288

8-IN-1 INSULATED INTERCHANGEABLE SCREWDRIVER SET

- Interchangeable Insulated Screwdriver Set with an insulated handle, 5 interchangeable insulated blades, and a carrying pouch
- Securely and easily release the blade with a quick twist of the lock collar
- Interchangeable blades with a slim-tip to fit tight terminal blocks
- Handle and blade have a 1000-Volt insulation rating and meets or exceeds ASTM F1505 standard for insulation
- A layer of orange impact and flame resistant insulation protects from electric shock
- Cushion-Grip handles for greater torque and comfort
- Double-ended blades have a 3.5-Inch shaft length, single-ended blades have 5.75-Inch shaft length
- Durable, carrying roll pouch keeps the set organized and protected

KLEIN TOOLS

Part No.	Description	Includes
32288	8-in-1	Pouch, Handle, #2PH Single-End Blade, 1/4"SL (6 mm) Single-End Blade, #1SQ / #2SQ Double-End Blade, #1PH / 3/16"SL (5 mm) Double-End Blade, and #2PH / 1/4"SL (6 mm) Double-End Blade


32538

10-FOLD SCREWDRIVER/NUT DRIVER, FRACTIONAL HEX

- Folding pocket-style 10-in-1 tool with interchangeable bits - 8 screwdriver sizes and 2 nut drivers
- Unfolds and locks at a 180-degree angle to provide a straight screwdriver
- Blast finished steel bits provide a firm hold to the fastener to reduce cam-out

KLEIN TOOLS

Part No.	Description	Includes
32538*	10-in-1	Nut Driver Sizes 5/16", 1/4": Hex Bits 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"


MAG2

MAGNETIZER/DEMAGNETIZER

- Magnetizes and demagnetizes screwdriver tips and bits using powerful rare-earth magnets
- Single swipe operation provides immediate magnetization and demagnetization
- Fits most screwdrivers including precision screwdrivers, 1/4 Slotted, 2 Phillips and 3 Phillips
- Attaches to tool bags or backpacks with the included stainless steel key ring
- No batteries required

KLEIN TOOLS

Part No.	Description
MAG2*	Magnetizer/Demagnetizer Screwdrivers - Fits: • Phillips: #3 • Keystone Slotted(round or square shank): 1/4" • Cabinet Slotted: 5/16" • Insulated Phillips: #2 • Insulated Cabinet: 1/4" • Most precision screwdrivers

NUT DRIVER



61014M

MAGNETIC NUT DRIVER

The full hollow shaft design with Rare-Earth magnetic tip facilitates work on hard to reach bolt applications. Klein's exclusive Cushion-Grip™ handle offers greater torque and outstanding comfort. The patented Tip- Ident® quickly identifies nut driver and size.

KLEIN TOOLS

Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)
61014M*	1/4	1 1/2	3 1/2
610516M*	5/16	1 1/2	3 1/2
630-11/32M*	11/32	3	6 3/4
63038M*	3/8	3	6 3/4
630716M*	7/16	3	7.31
63012M*	1/2	3	7.31
64614M*	1/4	6	9 3/4

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Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)
646516M*	5/16	6	9 3/4
6461132M*	11/32	6	9 3/4
64612M*	1/2	6	10 5/16
64638M*	3/8	6	9 3/4
646716M*	7/16	6	10 5/16
618516M*	5/16	18	21.75
63514*	1/4	4	9.00
63538*	3/8	4	9.00



61014

HOLLOW SHAFT CUSHION-GRIP NUT DRIVERS

- Exclusive hollow shaft design with Rare Earth magnetic tip features unobstructed pass-through, even on long bolts
- Hollow shank facilitates work on bolt applications
- Cushion-Grip handle allows for greater torque and comfort
- Handle end is color coded for easy identification
- Internal flanges provide solid, twist-resistant shaft anchor

KLEIN TOOLS

Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)
61014*	1/4	1 1/2	3 1/2
61051*	5/16	1 1/2	3 1/2
630316*	3/16	3	6.75
63014*	1/4	3	6.75
630516*	5/16	3	12.50
630-11/32*	11/32	3	6.75
630-7/16*	7/16	3	7.25
646-5/16-INS*	5/16	3	9.75
630-10MM*[1]	10 mm	3	6.75
630916*	9/16	4	9.38
64614*	1/4	6	9.50
64638*	3/8	6	9.75
646716*	7/16	6	10.31
64612*	1/2	6	10.31
646916*	9/16	6	11.38

[1] Metric



610M

MAGNETIC SET

- Full hollow shaft (except 3/16") for long bolts or studs, with rare earth magnetic hex tip
- Cushion Grip handles allow for greater torque and comfort.
- Handle domes are color coded for easy identification.
- Internal flanges provide solid, twist-resistant shaft anchor.
- Chrome plated shaft helps prevent corrosion.

KLEIN TOOLS

Part No.	De-scrip-tion	Shaft Length (In.)	Overall Length (In.)	Includes
610M*	2-In-1	1.5	3 1/2	Nut Driver Size 1/4", 5/16"
646M*	2-In-1	6	9 3/4	Nut Driver Size 1/4", 5/16"
631M*	7-In-1	3	6 3/4 - 7 5/16	Nut Driver Size 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"


S8-KLEIN

NUT DRIVERS

- Standard length works for most applications
- Fits over long bolts and studs
- Color-coded handles for easy identification

KLEIN TOOLS

Part No.	Description	Hex Open-ing (In.)	Shaft Length (In.)	Overall Length (In.)
S8-KLEIN*	Hollow Shaft	1/4	3	6.63
S10-KLEIN*	Hollow Shaft	5/16	3	6.63
S11-KLEIN*	Hollow Shaft	11/32	3	6.63
S12*	Hollow Shaft	3/8	3	6.63
S14*	Hollow Shaft	7/16	3	7.00
S16*	Hollow Shaft	1/2	3	7.00
S66-KTI*	Hollow Shaft	3/16	6	9.63
S86-KLEIN*	Hollow Shaft	1/4	6	9.63
S6-KLEIN*	Hollow Shaft - Plastic handle	3/16	3	6.63
S10M*	Magnetic - Solid Shaft	5/16	3	6.63
S106M*	Magnetic - Solid Shaft	5/16	6	9.63
S818M*	Magnetic - Super long	1/4	18	21.63

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NUT DRIVER


32809MAG

9-IN-1 PASS THROUGH SAE MULTI-NUT DRIVER, MAGNETIC

- Magnetic Nut Driver allows for one-handed driving, with nine sizes in one tool: 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 3/4-Inch
- Pass through handle and barrels for fastening hex nuts onto threaded rod of any length
- Strong, Rare-Earth magnets securely hold nuts and bolts: 1/4-Inch, 5/16-Inch, 11/32-Inch, 7/16-Inch
- Spring coil holds nuts and bolts in place without the use of magnets: 3/8-Inch, 1/2-Inch, 9/16-Inch, 3/4-Inch
- Extended wrench-assist on barrels for added torque on tough jobs
- Color-coded bands for easy identification
- Heavy-duty, Cushion-Grip™ handle for greater torque and comfort

KLEIN TOOLS

Part No.	Descrip-tion	Includes
32809MAG	9-in-1	Nut Driver Sizes 1/4", 3/16", 5/16", 11/32", 3/8", 7/16", 9/16", 1/2", 3/4"


32950

HOLLOW MAGNETIC COLOR-CODED RATCHETING POWER NUT DRIVERS, 7-PIECE

- Ratcheting handle provides added utility and outstanding comfort and control
- 3 3/4-Inch (9.5 cm) hollow core facilitates work on threaded rod
- Powerful, Rare-Earth magnets to retain fasteners for one-handed driving
- Color coded hex sizes for easy identification
- 5-Inch sturdy shaft for extended reach and access
- Magnet size increases with each hex size to hold screws and nuts
- Durable finish for corrosion protection

KLEIN TOOLS

Part No.	Descrip-tion	Overall Length (In.)	Includes
32950	7-In-1	6.30	Drive Size: 1/4": Hex Sizes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"


SAB601

MULTI-SOCKET

- High-torque grip textured, non-slip surface
- Replaces the four most common nut drivers.
- Telescoping action provides two socket sizes at each end

Supco

Part No.	Description	Includes
SAB601	4-in-1	Nut Driver Size 1/4", 3/8", 5/16", 7/16"


HHD1T

CONNEXT MAGNETIC HEX HAND DRIVERS

CONNEXT Quick Change handles from Malco, combined with precision-fit and hardened Malco Magnetic Hex Chuck Driver shaft components, offer the ultimate in Hex Hand Driver durability and flexibility. Hex Hand Drivers shown here are sold pre-assembled and packaged as one product, but components are also available separately. Replacing a worn hex hand driver with just a handle or driver shaft at a time is more economical. And changing a hand-held hex driver size can be as easy and thrifty as retrieving a different size chuck driver shaft from your tool bag.

Malco

Part No.	Description	Hex Opening (In.)	Overall Length (In.)
HHD1T	Stubby	1/4	4 1/8
HHD2T	Stubby	5/16	4 1/8
HHD3T	Stubby	0.375	4 1/8
HHD1S	Magnetic, standard	1/4	7.25
HHD2S	Standard	5/16	7.25
HHD1	Magnetic, long	1/4	10.13
HHD2	Magnetic, long	5/16	10.13


ZT10

ZTOOL

ESP ENERGY SAVING PRODUCTS

Part No.	Description	Includes
ZT10	Dual with pivoting sockets	Nut Driver Size 1/4", 5/16"

HEX


W9135

9 PC. LONG ARM HEX KEY WRENCH SET

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Nb. of Tools	Includes
W9135	9	SAE sizes: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16 & 3/8"


BH1

THE HEX REVOLVER

6 color-coded screwdriver holder for easy sorting and quick identification of bits and chucks. Keeps frequently used driver bits within reach. Quickrelease design for effortless bit changes.

ESP ENERGY SAVING PRODUCTS

Part No.	Nb. of Tools	Includes
BH1	6	Magnetic hex bits - 1/4", 5/16", 3/8", 7/16", 1/2", and 9/16"


70542

COMPACT FOLDING HEX KEY SET, SAE AND METRIC

- Folding hex key set is compact and pocketable for convenient carrying and storing
- Effortlessly adjust key tightness or looseness with the convenient #2 Phillips fastener
- High-leverage blades open independently up to 270 degrees
- Hex-key ends are square-cut for a secure, full-depth fit and maximum contact with the socket to prevent slippage and stripping
- Reinforced nylon handle has a sturdy, comfortable grip
- Blades are made of tough, heat-treated alloy steel and range from approximately 2.25-Inch to 2.5-Inch long coated to prevent rust
- Openings on the sides of case provide unimpeded access to outer keys

KLEIN TOOLS

Part No.	Nb. of Tools	Includes
70542	17	SAE Sizes 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"; Metric Sizes 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm

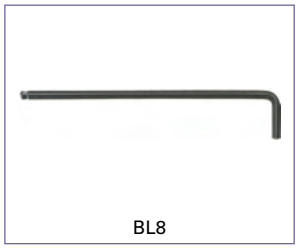

60669

HEX KEYS

All hex keys from 1/20" to 5/16" are premium 8650 heat-treated steel alloy for rugged use.

YELLOW JACKET

Part No.	Description	Includes
60669*	12 pcs. w/case - metric, standard end, hex keys	1/20", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"
60670*	12 pcs. w/ case - standard end, hex keys	1/20", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"
60685*	12 pcs. w/case - ball end, hex keys	1/20", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"


BL8

HEX KEY WRENCHES

Heat treated for long life. Chamfered ends for easy insertion into sockets. Black finish

KLEIN TOOLS

Part No.	Nb. of Tools	Shaft Length (In.)	Hex Size (In.)	Description
BL8*	1	3.88	1/8	Hex Key, L-Style Ball-End
BL7*	1	3.68	7/64	Hex Key, L-Style Ball-End
LL-4*	1	3.06	1/16	Long Arm Hex Key-individual
LL7*	1	3.69	7/64	Long Arm Hex Key-individual
LL9*	1	4.13	9/64	Long Arm Hex Key-individual
LL12*	1	4.68	3/16	Long Arm Hex Key-individual
LL20*	1	6.31	5/16	Long Arm Hex Key-individual

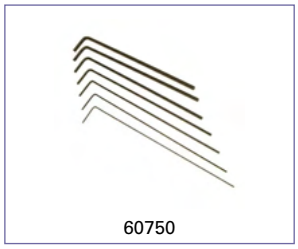

JTH98M

HEX KEY,T HANDLE

Klein Tools hex keys are the tools professionals cannot afford to be without. The Journeyman™ Hex T-Handle from Klein Tools delivers more torque to the fasteners than standard hex keys. Heat-treated and tempered for superior strength and durability. Klein hex-keys are designed for a precise fit in sockets, preventing slippage and stripping of the socket.

KLEIN TOOLS

Part No.	Nb. of Tools	Shaft Length (In.)	Hex Size (In.)	Includes
JTH98M*	8	9	Asst.	9-Inch Blades in 10 sizes: 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm
JTH9E08*	1	9	1/8	1/8-Inch Hex Key, Journeyman T-Handle, 9-Inch


60750

12" HEX KEY WRENCHES

- Heat treated for long life
- Chamfered ends for easy insertion into sockets
- Black finish

YELLOW JACKET

Part No.	Nb. of Tools	Shaft Length (In.)	Hex Size (In.)	Includes
60750*	7	12	ALL	7-in-1 - 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4
60860*	1	12	1/8	Individual
60862*	1	12	5/32	Individual

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HEX


31606

STANDARD GRIP HEX T-KEYS

- High Quality, Industrial Grade, Professional Tools
- Made with Eklind® Alloy Steel
- Heat Treated for optimum strength and ductility
- Finished with Eklind® Black Finish to resist rust
- Eklind® T-Handle Hex Keys provide extra reach and extra leverage

Part No.	Size (In)
31606	3/32
31607	7/64
31609	9/64
31612	3/16
31614	7/32
31616	1/4
31620	5/16
31906	3/32
31907	7/64
31908	1/8
31909	9/64
31910	5/32
31912	3/16
31914	7/32
31916	1/4


MSHC

C-RHEX® CLEANABLE, REVERSIBLE MAGNETIC HEX DRIVERS

- The dual-sided hex socket fits over magnet-tipped, ball-detent locking hex shaft and is quickly reversed for changing sizes.
- Tested torque of the socket and shaft is equal to comparable one-piece single size drivers to ensure optimum screw performance.
- The removable, reversible socket also allows easy access for cleaning the magnet tip to eliminate any troublesome buildup of metal shavings in the hex opening.
- Ideal for pairing with Malco Zip-in self-piercing or Bit-Tip drill and tap metal screws.

Part No.	Description	Hex Opening (In.)	Overall Length (In.)
MSHC	Reversible Red/Yellow	1/4, 5/16	2.00
MSHXLC	Reversible Red/Yellow	1/4, 5/16	6.00
MSHC1	Reversible Red/Blue	5/16, 3/8	2.00


70540

COMPACT FOLDING HEX KEY SET, SAE

Klein Tools' 9-Key Folding Hex Key Set conveniently consolidates the most popular SAE sizes into one compact handle. The industrial strength, extended reach blades open independently up to 270 degrees, and a precision fit design to reduce slippage and stripping. The durable handle is made of reinforced nylon with a comfortable grip.

Part No.	Nb. of Tools	Includes
70540	9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"


70540M

COMPACT FOLDING HEX KEY SET, 8-KEY, METRIC SIZES

Klein Tools' new Compact Folding Hex Key line features the same highly durable reinforced nylon handle with easy key access but is now pocketable for more convenient storage and carrying. Our hex key sets feature a strategically placed #2 Phillips fastener on the outer body, ensuring effortless adjustment of key tension to suit your preference. Klein Tools' hex sets are color-coded for quick identification: red for Inch, blue for mm, and green for Torx®, enhancing efficiency.

- Compact and pocketable hex key set for convenient carrying and storing
- Effortlessly adjust key tightness or looseness with the convenient #2 Phillips fastener
- High-leverage blades open independently up to 270 degrees
- Hex-key ends are square-cut for a secure, full-depth fit and maximum contact with the socket to prevent slippage and stripping
- Reinforced nylon handle has a sturdy, comfortable grip
- Heated-treated alloy steel with best in class rust prevention
- Openings on the sides of case provide unimpeded access to outer keys

Part No.	Nb. of Tools	Includes
70540M	8	1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm


70540T

COMPACT FOLDING HEX KEY SET, 8-KEY, TORX® SIZES

Klein Tools' new Compact Folding Hex Key line features the same highly durable reinforced nylon handle with easy key access but is now pocketable for more convenient storage and carrying. Our hex key sets feature a strategically placed #2 Phillips fastener on the outer body, ensuring effortless adjustment of key tension to suit your preference. Klein Tools' Hex sets are color-coded for quick identification: red for Inch, blue for mm, and green for Torx®, enhancing efficiency.

- Compact and pocketable hex key set for convenient carrying and storing
- Effortlessly adjust key tightness or looseness with the convenient #2 Phillips fastener
- High-leverage blades open independently up to 270 degrees
- Hex-key ends are square-cut for a secure, full-depth fit and maximum contact with the socket to prevent slippage and stripping
- Reinforced nylon handle has a sturdy, comfortable grip
- Heated-treated alloy steel with best in class rust prevention
- Openings on the sides of case provide unimpeded access to outer keys

KLEIN TOOLS

Part No.	Nb. of Tools	Includes
70540T	8	T9, T10, T15, T20, T25, T27, T30, T40


70550

PRO FOLDING HEX KEY SET, 11 FRACTIONAL INCH-SIZED KEYS

- Pro Folding Hex Key Set with 11 extended-reach blades
- High-leverage blades open independently up to 270 degrees
- Hex-key ends are square-cut for a secure, full-depth fit and maximum contact with the socket to prevent slippage and stripping
- Conveniently houses the most frequently used hex key sizes in one set
- Blades are made of tough, heat-treated alloy steel and range from approximately 3.5 to 4.5-Inches long
- Reinforced nylon handle has a sturdy, comfortable grip

KLEIN TOOLS

Part No.	Nb. of Tools	Includes
70550	11	SAE Sizes 1/2", 3/8", 5/16", 1/4", 7/32", 3/16", 5/32", 9/64", 1/8", 7/64", 3/32"


70579

FOLDING HEX KEY SET

Hex ends are square-cut for a secure full-depth fit and maximum contact with the hex socket to prevent slippage and stripping of the socket.

KLEIN TOOLS

Part No.	Nb. of Tools	Shaft Length (In.)	Includes
70579*	5	5.25	Five-Key Inch Set: 3/16", 7/32", 1/4", 5/16", 3/8"
70581*	8	5.40	3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"
70591*	9	5.50	Five-Key Inch Set: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"


25912

ERGO-FOLD, HEX END

Ergo-Fold key sets feature a composite grip handle shaped for superior ergonomics. A soft cushion-grip insert provides comfort and slip resistance. Highest quality 8650 chrome nickel alloy hex steel, heat treated for superior strength and finished to resist rust. Provides maximum torque and wear resistance.

Eklind

Part No.	Nb. of Tools	Shaft Length (In.)	Includes
25912*	9	3.75	0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16
25911*	9	4.5	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"
25611*	6	5.5	5/32", 3/16",7/32", 1/4", 5/16", 3/8"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PLIER


J2068C

ALL PURPOSE PLIER

- Strips and cuts 8-16 AWG solid and 10-18 AWG stranded wire
- Long nose for grabbing and looping wire
- 6-32 and 8-32 screw shearing
- Induction-hardened cutting knives for hard wire
- Hot-riveted joint ensures smooth action with no handle wobble
- Forged steel for maximum durability
- Spring-loaded for self-opening action
- Dual material Journeyman handles provide better grip

Part No.	Description	Opening Width (In.)	Overall Length (In.)
J2068C*	Spring Loaded, Cuts and Strips 8-16 AWG solid 10-18 AWG stranded	1.00	8 1/2
J2078CR*	Crimper, Cuts and Strips 10-18 AWG solid 12-20 AWG stranded	1.00	8 1/2


D3026

CURVED LONG-NOSE PLIERS

- Pliers have 70-Degree bent nose for maximum work visibility in confined areas
- Knurled jaws for sure wrapping and looping
- Curved handles provide greater tool control
- Forged in the USA with custom, US-made tool steel for maximum durability
- Hot-riveted joint for smooth action and no handle wobble

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D3026*	Yellow handle	0.68	6 1/2


D203-6

LONG NOSE SIDE CUTTER

- Induction hardened, long lasting side cutting knives
- Knurled jaws for sure wrapping and looping
- Curved handles provide greater tool control
- Jaw length: 1 7/8" (D/J203-6) 2 7/16" (D203-7), jaw width: 11/16", jaw thickness: 3/8", point thickness: 3/32"
- D prefix: plastic dipped; J prefix (journeyman): dual material coating - softer outer surface grip - harder, more durable on inner surface and handle ends

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D203-6*	Yellow handle	0.67	6.00
D203-7*	Yellow handle	0.67	8.00
D203-8*	Yellow handle	1.02	6.00
J2037*	Yellow/Black handle	0.38	7.00
D2037C*	Spring - Yellow handle	0.38	7.00
D2038N*	Stripping - Yellow handle	0.50	8.00
J2036*	Journeyman™ - Yellow/Black handle	0.50	6 3/4
J2038*	Journeyman™ - Yellow/Black handle	0.50	8.00
J2038N*	Journeyman™ - Yellow/Black handle	0.50	8.00
D2038NCR*	Stripping and Crimping Pliers - Yellow handle	1.02	8.00


D502-6

ADJUSTABLE PUMP

Pump Pliers feature a secure tongue and groove design for a non-slip grip even when heavy pressure is applied. It has a tension-loaded joint to reduce handle wobble for sure gripping. Plastic-dipped handles provided added comfort and ease of identification.

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D502-6*	Yellow handle	0.88	6.00
D502-10*	Yellow handle	1.75	10.00
D50216*	Yellow handle	4.25	16.00
J50210*	Journeyman™ Pump Pliers - Yellow/Black handle	1.75	10.00
D50412*	Classic Klaw™ Pump Pliers - Yellow handle	2.75	12.00
D50412B*	Quick-Adjust Klaw™ Pump Pliers - Yellow handle	2.75	12.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


D3338

CONDUIT LOCKNUT AND REAMING PLIERS

- Tightens 1/2" (1.3 cm) and 3/4" (1.9 cm) EMT or 1/2" (1.3 cm) rigid locknuts
- Fits liquid tight fittings and caps
- Reams and deburrs both inside and outside of conduit
- Knurled jaws at nose tip pull wire or fish tape
- Machined nose fits snugly into locknut wings

KLEIN TOOLS

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D3338*	Yellow handle	0.94	7 3/4


J20009NECR

LINEMAN'S PLIERS

- Unique Handle Tempering helps absorb the "snap" when cutting wire
- Hot-riveted joint ensures smooth action and no handle wobble
- Precision-hardened plier head for on the job toughness
- Induction hardened cutting knives for long life
- Sure-gripping cross-hatched knurled jaws

KLEIN TOOLS

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D201-7NE*	New England nose type - Dark Blue handle	1.25	7.00
J20009NECR*	Crimping - New England nose type - Light Blue/Black handle	1.43	9.00
D20009NECR*	Crimping - New England nose type - Light Blue handle	1.25	9.00
HD2139NETH*	Bolt Thread-Holding - New England nose type - Light Red handle	1.50	9.00


J2139NECR

LINEMAN'S PLIERS – CONNECTOR CRIMPING

- Pliers with high-leverage design have 46-percent more cutting power
- Built-in crimper works on non-insulated connectors, lugs and terminals
- Strips 10-12 solid and 12-14 stranded wire
- Precision machined knives cut cleanly and crisply even on fine stranded wire, mule tape and pull line
- Made in USA with Custom, US-made tool steel
- Sure-gripping, cross-hatched knurled jaws
- Hot-riveted joint ensures smooth action and no handle wobble
- Innovative dual material Journeyman™ grips are more comfortable and last longer than other handles

KLEIN TOOLS

Part No.	Description	Opening Width (In.)	Overall Length (In.)
J2139NECR	Side Cut - Yellow/Black handle	1.25	9.00


N9054

ADJUSTABLE

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Overall Length (In.)
N9054*	Tongue & Groove, 5 Adjustments - Blue handle	6 1/2
N9055*	Tongue & Groove, 5 Adjustments - Blue handle	9 1/2
N9058*	Tongue & Groove, 7 Adjustments - Blue handle	10.00
N9056*	Tongue & Groove, 7 Adjustments - Blue handle	12.00
RTAB10CG*	Auto-Bite Pliers - Orange/Black handle	10.00


N00RR

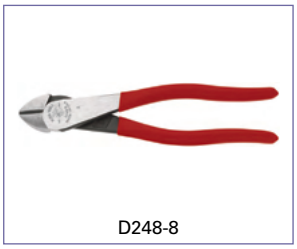
VISE GRIP

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Overall Length (In.)
N00RR	Locking Pinch-off Tool	7.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CUTTER


D248-8

DIAGONAL CUTTER

- Diagonal Cutters with angled head design for easy work in confined spaces
- High-leverage pliers with rivet closer to the cutting edge for 36-percent greater cutting power than other plier designs
- Short jaws and beveled cutting edges permit close cutting of wire
- Induction-hardened cutting knives for long life
- Made in USA with Custom, US-made tool steel
- Hot-riveted joint ensures smooth action and no handle wobble
- Plastic-dipped handles for comfort and ease of identification

KLEIN TOOLS

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D248-8*	Angled Head - Red handle	1.25	8.00
D2000-48*	Angled Head, Heavy-Duty - Blue handle	1.25	8.00
J200048*	Angled Head, Heavy Duty, Journeyman Grip - Light Blue/Black handle	1.25	8.00
D248-8GLW*	Angled Head - Glow-In-The-Dark handle	1.25	8.00
D2488INS*	Angled Head, Insulated - Orange handle	1.25	8.00
D2287*	High Leverage - Red handle	1.25	7.00
D2288*	High Leverage - Red handle	1.25	8.00
J200028*	High Leverage, Heavy-Duty - Light Blue/Black handle	1.25	8.00
D2000-28-INS*	High Leverage, Heavy-Duty, Insulated - Orange handle	1.25	8.00
D2288INS*	High Leverage, Insulated - Orange handle	1.25	8.00
J2288*	High Leverage, Journeyman - Red handle	1.25	8.00
D2594C*	Midget, Pointed Nose, Extra-Narrow Jaw - Light B;ue handle	0.44	4.00
D2526*	Standard, All-Purpose - Red handle	0.75	6.00
D2106C*	Standard, Semi-Flush - Red handle	1.00	6.00
D2455*	Standard, Tapered Nose - Red handle	0.50	5.00
D2026C*	Standard, Tapered Nose, Spring-Loaded - Red handle	1.00	6.00


D2139

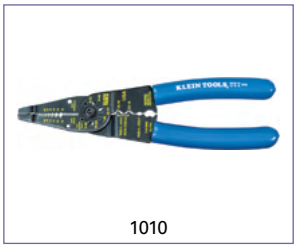
HIGH LEVERAGE SIDE CUTTING PLIERS

- High leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs
- Streamlined design with sure gripping, cross hatched knurled jaws
- New England nose style
- D prefix: plastic dipped; J prefix (journeyman): dual material coating - softer outer surface grip - harder, more durable on inner surface and handle ends

KLEIN TOOLS

Part No.	Description	Opening Width (In.)	Overall Length (In.)
D2139*	Lineman's - Square Nose - Dark Blue handle	1.25	9.00
HD2139NE*	Lineman's - Light Red handle	1.25	9.00
J213-9NE*	Lineman's - Journeyman - Dark Blue/Black handle	1.25	9.00
D213-9NE*	Lineman's - New England Nose - Dark Blue handle	1.25	9.00
D2139NECR*	Lineman's - Crimping Pliers - Yellow handle	1.25	9.00
D2139NETP*	Lineman's - Fish Tape Pulling Pliers - Dark Blue handle	1.25	9.00
D20009NEGLW*	High-Visibility - Glow-in-the-Dark handle	1.25	9 1/4
D2328	Red handle	1.76	8.00
63041	Standard Cable Cutter - Orange handle	1 3/8	25.00

WIRE STRIPPER/CRIMPER/CUTTER


1010

LONG NOSE MULTI TOOL WIRE STRIPPER, WIRE CUTTERS, CRIMPING TOOL

The Klein Tools Wire Stripper Long Nose Multi Tool handles a wide range of functions, from wire and bolt cutting to stripping and crimping. The cutting and stripping holes are positioned in front of the pivot to easily fit into tight spaces. Plastic-covered cushioned handles make this tool comfortable to use.

KLEIN TOOLS

Part No.	Description	Overall Length (In.)
1010*	Cuts and Strips 10-20 AWG Solid Wire and 12-22 AWG Stranded Wire; Crimps 10-22 AWG Insulated, Non-Insulated Terminals, 7-8 mm Ignition Terminals; Screw Shearing 4-40, 5-40, 6-32, 8-32, 10-32, 10-24	8 1/4

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

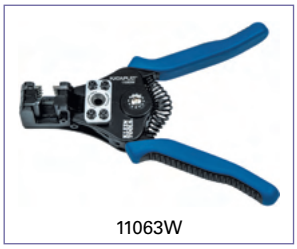


11045

STANDARD WIRE STRIPPERS/ CUTTERS

- Cuts, strips, loops and bends 10-20 AWG solid and 12-22 AWG stranded wire
- Shear-type cutting for clean cuts
- Serrated nose jaws to bend, shape, or pull wire; holes for looping wire ends
- Spring-loaded for self-opening action and comfortable, plastic-covered handles
- Made in USA
- Comfortable plastic-covered handles
- Spring loaded for self-opening action

Part No.	Description	Overall Length (In.)
11045*	10-18 AWG Solid Wire	6 1/4
11045INS*	10-18 AWG Solid -Insulated	7.00
11046*	16-26 AWG Stranded Wire	6 1/4
11047*	2-30 AWG Solid Wire	6 1/4


11063W

KATAPULT® WIRE STRIPPER AND CUTTER FOR SOLID AND STRANDED WIRE

- Cuts and strips 8-22 AWG wire with ease
- Compound action stripping: grip and strip via single-action squeezing motion
- Precision machined stripping holes easily remove insulation without damaging the wire
- Remove up to 1" in length of the insulation layer in a single step
- Tension loaded wire-grip gently holds the cable while retaining cable geometry
- Cast alloy chassis with heavy-duty Ecoat finish for corrosion resistance and durability
- 6.625" Long

Part No.	Description	Overall Length (In.)
11063W*	8-20 AWG Solid Wire and 10-22 AWG Stranded Wire	6 5/8


2005N

FORGED STEEL WIRE CRIMPER, CUTTER, STRIPPER

The Forged Crimper with Wire Stripper/Cutter combines the most commonly used wire stripping sizes with a dedicated crimper and two cutters. Strips 10-18 AWG stranded wire and crimps 10-22 AWG insulated and non-insulated terminals and connectors. The forged design delivers a professional level tool you expect from Klein. Features a specially hardened wire cutter in the nose and a shear cutter below for copper and aluminum wire.

Part No.	Description	Overall Length (In.)
2005N	10-18 AWG Stranded; Crimps 10-22 AWG Insulated and Non-Insulated Terminals,	9.00


11053

WIRE CRIMPER/STRIPPER, KLEIN-KURVE®

- Cleanly shears 6-32, 8-32 bolts.
- Handy closure lock for convenient storage
- Klein-Kurve® comfort grip handles
- Easy to read markings
- Strong gripping serrated nose for bending, shaping, pulling of wire
- Cuts, strips, loops and gauges both 10-18 solid and 12-20 stranded AWG wire.
- 11055INS insulated crimper exceeds IEC60900, ASTM F1505 standards, 1000 volt

Part No.	Description	Overall Length (In.)
11053*	6-12 AWG Solid Wire; Screw Shearing 6-32, 8-32	7 1/2
11055*	10-18 AWG Solid Wire and 12-20 AWG Stranded Wire; Screw Shearing 6-32, 8-32	7 1/8
11055INS*	10-18 AWG Solid Wire and 12-20 AWG Stranded Wire; Screw Shearing 6-32, 8-32 - Insulated	7 1/8

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WIRE STRIPPER/CRIMPER/CUTTER


K12065CR

KLEIN-KURVE® HEAVY-DUTY WIRE STRIPPER/CUTTER/ CRIMPER MULTI TOOL, 8-20 AWG

- Wire Stripper with six stripping holes for 8-18 AWG solid and 10-20 AWG stranded wire
- Multi Tool's side cut design features longer knives for more cutting
- Crimps non-insulated connectors, lugs and terminals for 10-20 AWG stranded wire
- Knurled jaw for twisting, grabbing and looping wire
- Twists up to three wires at a time
- High leverage design for improved performance
- Klein-Kurve® comfort grip handles for reduced hand fatigue
- Induction hardened cutting knives for long life
- Hot-riveted joint ensures smooth action and no handle wobble

KLEIN TOOLS

Part No.	Description	Overall Length (In.)
K12065CR*	8-18 AWG Solid Wire and 10-20 AWG Stranded Wire; Crimps 10-20 AWG Stranded; Screw Shearing 6-32, 8-32	8 3/10


MCCUT

MC ROTARY CUTTER

- Quickly splits the armored jacket on #10, 12 and 14 armored cables and 3/8" flexible conduit with a few turns of the handle
- Adjustable cutting depth for standard and reduced diameter BX/MC cables
- Stores up to 6 extra blades in handle knob
- Durable die cast epoxy enameled construction
- Less hazardous than traditional MC cable cutting methods
- Replacement blades are available (MCBLADE)
- Includes 1 Blade

Southwire

Part No.	Description	Overall Length (In.)
MCCUT	MC Rotary Armor Cable Cutter	3 1/2


J1005

CRIMPING AND CUTTING TOOL FOR NON-INSULATED TERMINALS

- Crimping die marked for insulated (1005, J1005) and non-insulated (1005, J1005, 1006) solderless terminals and connectors.
- Crimps 10 - 22 AWG
- Tapered nose design for working in confined spaces.
- Specially hardened wire cutter in nose.
- Hot-riveted joint for smooth action and no handle wobble.
- Handle: no prefix: plastic covered; J prefix (journeyman): dual material coating - softer outer surface grip - harder, more durable on inner surface and handle ends

KLEIN TOOLS

Part No.	Description	Overall Length (In.)
J1005*	Journeyman™ - Red/Black handle	9 3/4

WRENCH


68400

COMBINATION WRENCHES

- Forged from the highest quality allot steel
- Corrosion resistant
- Open ends are offset at standard 15 degree angle for confined working areas
- Durable chrome-plated finish
- Box ends have 15 degree angel offset to provide clearance over obstructions

KLEIN TOOLS

Part No.	Includes	Size (In.)	Overall Length (In.)
68400*	7-Piece - 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", and Carry Case	Assorted	Assorted
68402*	9-Piece - 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", (6.4 mm to 19.0 mm), and Carry Case	Assorted	Assorted
68411*	Individual	5/16	4.38
68415*	Individual	9/16	7.50
68413*	Individual	7/16	6.63
68414*	Individual	1/2	7.13
68417*	Individual	11/16	9.00

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60633

KNUCKLE-SAVER™ HEX WRENCH SETS

Knuckle-Saver™ Hex Wrench Sets come in three-piece or five-piece sets. The offset design saves knuckles in tight places.

- Accurately sized and broached ends for correct fit
- Heat-treated critical wear parts for long life
- Finger control reversing
- Chrome plated for durability
- Made in the USA

Part No.	Size (In.)	Design	Overall Length (In.)
60633*	1/4, 5/16	Offset, Hex	7.00
60634*	3/8, 7/16	Offset, Hex	7.00
60635*	1/2, 9/16	Offset, Hex	7.00
60636*	5/8, 11/16	Offset, Hex	7.00
60637*	3/4, 7/8	Offset, Hex	7.00


60650

PRECISION TORQUE WRENCH

Designed to accommodate the full range of ductless mini-split flare nut sizes and torque requirements. Fully adjustable to accommodate a variety of flare nut sizes. Durable, easy-to-use and more adjustable than other flare nut torque wrenches on the market. Intuitive, easy-to-use settings and adjustments.

- Precision torque wrench for exact tightening to 10-80 N-M or 7.4-59 ft. lb.
- Adjustable in Newton-meters and foot-pound
- Interchangeable open end adapters (Sizes: 17, 22, 24, 26, 27 & 29 mm on 60650 and additional 16 and 21 mm on 60652)
- The N-M and foot-pound (FT-LB) scales are marked on the barrel of the wrench for easy and permanent reference
- The micrometer-type sleeve is easy to read and allows accurate pre-set torque values to be set. When the set torque is reached, the wrench produces and audible click and a slight, safe release of tension to prevent over tightening
- Accurate within 4% when measured per BSEN 26789 & ISO 6789 & ASME B107.14M & DIN3122 regardless of the open end adapter head used
- The wrench length with adapter is 16" (406 mm)
- Packaged in a blow-molded storage case

Part No.	Includes	Overall Length (In.)	Description
60650*	17, 22, 24, 26, 27 and 29 mm	16.50	6 Head Torque Wrench Kit
60652*	16, 17, 21, 22, 24, 26, 27 and 29 mm)	16.50	8 Head Torque Wrench Kit


65510

ASSORTED SOCKET WRENCH SETS

Part No.	Includes	Description
65510*	Socket Size 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"; Spark Plug Socket 5/8" - Compact Hinged Metal Box	12-Piece
65504*	Socket Size 6 Point Sockets 3/8", 7/16" 1/2", 9/16"; 12 Point Sockets 5/8", 11/16", 3/4", 13/16" - Compact Hinged Metal Box	12-Piece
65500*	Socket Size 3/16", 7/32" 1/4", 9/32" 5/16", 11/32", 3/8", 7/16", 1/2" - Compact Hinged Metal Box	13-Piece
65506*	Socket Size 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 - Red Flip-Lock Tray	13-Piece - Metric
65512*	Socket Size 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", and 1-1/4" - Hinged Metal Storage Box	16-Piece


BTLDTW

DIGITAL TORQUE, BLACKMAX®

Ideal for HVAC mini-split installations or where OEM specified torque settings are critical, the BlackMax® digital torque wrench exceeds the capabilities of mechanical only torque wrenches by offering a variety of user-friendly features in a lightweight, durable and ergonomic housing.

- Torque settings: Lbf.ft, Lbf.in, N-m, Kgf.m
- Pre-set and actual torque values: View both same time
- LED Torque Alerts: Green within 50-98%, Red within 2%
- Memory Presets: 5 common, 5 open for custom torque values
- Track mode: View real-time torque value reached during use
- Peak mode: Maximum torque value reached is stored temporarily
- Auto-Off (Selectable): Conserves battery life
- Display light key

Part No.	Pipe Capacity (In.)	Overall Length (In.)	Description
BTLDTW	3/16 - 1 3/8	15.25	BlackMAX Digital Torque Wrench

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WRENCH


10HD

PIPE, CAST IRON

- Sturdy, cast-iron housing and I-beam handle for comfortable grip and strength without excess weight
- Full-floating forged hook jaw with spring suspension for instant grip, instant release

RIDGID

Part No.	Pipe Capacity (In.)	Nominal Size (In.)	Description
10HD	1 1/2	10	Heavy-Duty Straight Pipe Wrench - Model 10
12HD	2	12	Heavy-Duty Straight Pipe Wrench - Model 12
14HD	2	14	Heavy-Duty Straight Pipe Wrench - Model 14
18HD	2 1/2	18	Heavy-Duty Straight Pipe Wrench - Model 18


810WRENCH

PIPE, ALUMINUM

- Nearly 40% lighter than comparable cast-iron models of the same size

RIDGID

Part No.	Pipe Capacity (In.)	Nominal Size (In.)	Description
810WRENCH	1 1/2	10	Aluminum Straight Pipe Wrench - Model 10
814WRENCH	2	14	Aluminum Straight Pipe Wrench - Model 14
818WRENCH	2 1/2	18	Aluminum Straight Pipe Wrench - Model 18
824WRENCH	3	24	Aluminum Straight Pipe Wrench - Model 24


E110

OFFSET HEX

Hex jaw design gives multi-sided, secure grip on all hex nuts, square nuts, unions, and valve packing nuts.

- Ideal for use on expansion valve powerheads
- Extra wide opening

RIDGID

Part No.	Pipe Capacity (In.)	Overall Length (In.)	Description
E110	1 1/8 - 2 5/8	9.50	Extra wide opening


NRE57771

ADJUSTABLE

- Chrome plated with vinyl cushion grip

NATIONAL REFRIGERATION PRODUCTS

Part No.	Overall Length (In.)	Description
NRE57771	10.00	Adjustable Pipe Wrench


D74PH

ADJUSTABLE

- Black phosphate finish

NATIONAL REFRIGERATION PRODUCTS

Part No.	Size (In.)	Description
D74PH	4	Adjustable wrench
D76PH	6	Adjustable wrench
D78PH	8	Adjustable wrench
D710PH	10	Adjustable wrench
D712PH	12	Adjustable wrench


507-8

ADJUSTABLE, EXTRA CAPACITY

- Extra capacity allows use of smaller size wrench to handle bigger jobs
- Forged heat-treated alloy steel for maximum strength and lightweight
- High polish chrome finish
- Plastic dipped handle

KLEIN TOOLS

Part No.	Hex Opening (In.)	Overall Length (In.)	Description
507-8*	1.13	8.00	High Capacity - Chrome handle
507-10*	1.31	10.00	High Capacity - Chrome handle
507-12*	1.50	12.00	High Capacity - Chrome handle
D5076*	0.94	6 3/8	High Capacity - Transparent Red handle
D5078*	1.13	8 3/8	High Capacity - Transparent Red handle
D50710*	1.31	10 3/8	High Capacity - Transparent Red handle
D50712*	1.50	12 3/8	High Capacity - Transparent Red handle
D5098*	1.50	8.00	Standard Capacity, Extra Wide Jaw - Blue handle
D5064*	0.50	4 1/2	Standard Capacity - Transparent Red handle

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


3239

ADJUSTABLE, CONSTRUCTION

- Forged from select alloy steel with continuous-taper handle for aligning bolt and/or rivet holes.
- Industrial black finish for corrosion resistance.

Part No.	Hex Opening (In.)	Overall Length (In.)	Description
3239*	1.5	16.00	Adjustable Spud Wrench, Tether Hole


D86930

REVERSIBLE JAW/ADJUSTABLE PIPE WRENCH

- Versatile 2-in-1 tool converts from adjustable wrench to pipe wrench by reversing the removable jaw
- Reversible jaw has teeth and an obtuse angle to work as a pipe wrench
- Pipe wrench side of jaw grips pipes and round fasteners with self-gripping angled teeth
- 1-1/2" extra-wide jaw opening in both configurations
- Standard and metric size markings for fast adjustment
- Manufactured for strength and durability
- Meets ASME 107.100-2010 standards for adjustable wrenches

Part No.	Hex Opening (In.)	Overall Length (In.)	Description
D86930	1.50	10 1/4	Blue handle


D86932

SLIM-JAW ADJUSTABLE WRENCH

Ideal for tight space wrench-over-wrench applications such as gas lines, pumps, and motors. Unique design minimizes protruding jaw shank for greater capacity and range of motion in confined areas. Standard and metric permanent markings for fast and precise adjustment.

- 40% slimmer jaws
- Designed for tight wrench-over-wrench applications such as gas lines
- Jaws meet ASME 107.100-2010 testing standards for adjustable wrenches while being 40% slimmer than most standard adjustable wrench jaws
- Extra-wide jaw
- Unique design minimizes protruding jaw shank for greater capacity and range of motion in confined areas
- Standard and metric size markings for fast adjustment
- Manufactured for strength and durability

Part No.	Hex Opening (In.)	Overall Length (In.)	Description
D86932	0.50	4.00	Blue handle
D86936	1.50	8.00	Blue handle


65200

ELECTRICIAN'S MINI RATCHET SET

- Slim profile of the professional Mini Ratchet 5-Piece Set is the perfect tool for tight spaces
- 1/4-Inch dual-drive head and socket adapter for more versatility
- The 72-tooth ratchet only needs a 5-Degree sweep for tight areas
- High-strength, steel construction increases torque and tool life
- Ring magnet and bit clip for better bit retention
- Finger loop provides one-hand driving and convenient storage

Part No.	Includes	Overall Length (In.)
65200	Set: 1/4" and 5/16" Nut Driver; 1/4" Socket Adapter; #1 and #2 Phillips; 3/16" and 1/4" Slotted Drive Bits	4.33

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WRENCH



68244

FULLY REVERSIBLE RATCHETING OFFSET BOX WRENCHES

- Both ends are offset 25° for more convenient use in confined spaces.
- Quick-flip reversing lever for instant ratchet reversal.

KLEIN TOOLS

Part No.	Includes	Size (In.)	Overall Length (In.)
68244*	3-Piece - Sized Wrenches - 1/4 x 5/16"; 3/8 x 7/16"; 1/2 x 9/16"	Assorted	Assorted
68234*	Individual	1/4, 5/16	4.38
68236*	Individual	3/8, 7/16	5.50



N1001

RATCHET

NATIONAL REFRIGERATION PRODUCTS

Part No.	Size (In.)	Description
N1001	3/8, 1/2	2 Way
N1000	3/16, 1/4, 5/16, 3/8	4 Way





60612

SERVICE WRENCHES

Straight, Heavy Duty and Off-set service wrenches offered. Made in the USA.

- Straight-Standard reversible ratchet wrench with square openings: 1/4" and 3/16" at one end; 3/8" and 5/16" at other end.
- Heavy Duty-Heavy duty features a heavier handle and larger gear. Stronger gear teeth are combined with strong reversing mechanism for long service life. Square opening 3/16" and 1/4" at one end; 3/8" and 5/16" at other end.
- Offset-Knuckle saver design for convenience in tight areas. Square opening 1/4" and 3/16" at one end; 3/8" and 5/16" at other.
- Refrigeration-Reversible wrench for larger service valves. 3/8" square one end; 1/2" square at other.
- 7" Long Ratchet-7" heavy duty reversible ratchet wrench with hex openings 1/2" and 9/16" at one end; square 3/16" and 1/4" at other end.

YELLOW JACKET

Part No.	Size (In.)	Overall Length (In.)	Description
60612*	3/16, 1/4, 1/2, 9/16	7.50	Heavy duty wrench
60613*	3/16, 1/4, 3/8, 5/16	7.00	Straight Service Wrench
60615*	3/8, 1/2	7.00	Straight Refrigerant wrench for large valves
60616*	3/16, 1/4, 3/8, 5/16	11.60	Off-set Service Wrench
60618*	3/16, 1/4, 3/8, 5/16	7.00	Straight Heavy Duty Service Wrench



60617

SPORLAN STEM

Spanner end tightens packing nut around super heat adjustment stem. 1/8" square end adjusts Sporlan solenoid valves with manual lift stems.

- Also 3/16" square at same end for expansion valves

YELLOW JACKET

Part No.	Size (In.)	Overall Length (In.)	Description
60617*	1/8, 3/16	6.00	Sporlan valve wrench

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


RRW-3/16

HEX KEY ADAPTER

- Fits 1/4" square drive shanks

Malco

Part No.	Size (In.)	Description
RRW-3/16	3/16	Hex Adapter, 1/4" square drive shanks
RRW516	5/16	Hex Adapter, 1/4" square drive shanks


60609

SERVICE WRENCH AND ADAPTER

Combination service wrench and hex adapter (60610) for accessing liquid & suction based valves on residential & commercial units up to 7.5 tons. Heat-treated hex works for 3/16" and 5/16" hex valves. Black oxide plated.

YELLOW JACKET

Part No.	Overall Length (In.)	Description
60609*	3.50	Hex key adapter
60610*	3.50	Combination 60609 adapter with 60613 service wrench
60638*	8.00	Shorter hex key adapter to be used with some York & Coleman units

TOOL SETS


W9171

21 PC. FOLDING UTILITY KNIFE SET

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Includes
W9171	21-piece	Utility knife, 20 SK5 blades, and a storage case


40155

TELESCOPING MAGNETIC PICK UP TOOL

- Great for hard-to-reach places
- Powercap shields sides of magnet for focused lifting

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
40155	Pocket Telescoping Magnetic Pick-Up Tool


33526

8-PIECE INSULATED TOOL KIT

The kit of insulated tools incorporates all the Klein quality design and construction features that professionals have relied on. The tools combine excellent functionality along with reduction of risk of injury where a tool might make contact with an energized source with voltage up to 1000 volts. The high-dielectric white inner layer is a thick, exceptionally tough base coating which is bonded to the tool. The outer layer is a flame-resistant, bright orange color. All Klein insulated tools comply with the IEC 60900 and ASTMF 1505 standards for insulated tools. The 11045INS Insulated Wire / Stripper Cutter will strip and cut 10-18 AWG solid wire. The Wire Stripper also has holes for easily looping and bending wire. The D203-8INS 8in. Insulated Long-Nose Side Cutting Pliers have a unique slim head for working in confined areas.

KLEIN TOOLS

Part No.	Includes
33526*	High leverage plier, side cutting; High leverage plier, diagonal cutting; Heavy duty long nose plier, side cutting; Heavy duty round shank screwdriver, keystone tip; Round shank screwdriver, cabinet tip; Round shank screwdriver, phillips Tip; High-Leverage Cable Cutter; Wire Stripper/ Cutter; Highly durable, black, nylon case


80118

18-PIECE JOURNEYMAN™ SET

The Klein Tools Journeyman 18-Piece Tool Set includes many of the vital tools needed for electrical wiring and connecting work. Featured in this tool set are Klein Journeyman pliers. These pliers have dual-material handles providing added comfort and grip. This set also comes with a handy work belt and a 10-pocket tool pouch.

KLEIN TOOLS

Part No.	Includes
80118*	8" Long Nose Pliers; 10" Pump Pliers; 10" Adjustable Wrench; #1 Phillips Screwdriver 3" Shank; #2 Wire Bending Phillips Screwdriver; 1/4" Cabinet Tip Screwdriver 4" Shank; 1/4" Cabinet Tip Screwdriver 6" Shank; 1/4" Nutdriver 3" Shaft; 5/16" Nutdriver 3" Shaft; #2 Square Screwdriver 4" Shank; 3/16" Cabinet Rapi Dri® 6" Shaft; 25' Double Hook Magnetic Tape; 9" Lineman's Pliers; 8" Angled Pliers; 10 Pocket Tool Pouch; 9" Journeyman™ Wire Pulling Pliers Heavy-Duty Side Cutting; 10 to 18 Solid and 12 to 20 AWG Stranded Wire Stripper; Protective Eyewear

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TOOL SETS


80141

41-PIECE JOURNEYMAN™ SET

The Klein Tools 41-Piece Tool Kit has practically any tool a tradesman would need. This wide assortment of quality, durable tools contains pliers, screwdrivers, nut drivers, wire strippers, and much more, all for professional and home use. The set includes a large tool bag backpack to store all of these tools.

KLEIN TOOLS

Part No.	Includes
80141*	4 Types of Pliers, 8 Fixed-Blade Screwdrivers, 7 Nut Drivers, 2 Multi-Bit Drivers, Magnetizer/Demagnetizer, Awl, Hex Key Set, Cable Cutter, Cable Stripper/Cutter, Wire Stripper/Cutter, Crimping/Cutting Tool, Jab Saw, Conduit Reamer, Fish Tape, NCVT with Flashlight, GFCI Tester, Voltage/Continuity Tester, Utility Knife, Tape Measure, Level, Canvas Zipper Bag, Tool Bag Backpack, Headlamp, and Protective Eyewear

KNIFE, SAW


44201

ELECTRICIAN'S POCKET KNIFE

- Wire stripping notches on blade, stripping sizes 14-10 AWG
- Satin 440A stainless steel drop point blade
- Anodized aluminum handle for corrosion resistance
- Dual thumb studs for one-hand open
- Liner lock secures blade in open position
- Pocket clip keeps knife readily available

KLEIN TOOLS

Part No.	Description
44201*	14-10 AWG Drop Point Blade - Gray Handle


44213

BEARING-ASSISTED OPEN POCKET KNIFE

- Pocket Knife has 440A stainless steel, versatile drop point blade knife with both a fine and serrated edge
- Liner lock keeps the knife open
- Spring-loaded opening mechanism enables quick, easy deployment of the blade
- Low-carry pocket clip allows the knife to sit low and out of the way
- Safety lock keeps knife closed when stored
- Dual thumb studs for both left- or right-hand opening
- Lanyard hole for tethering

KLEIN TOOLS

Part No.	Description
44213	Bearing-Assisted Open Pocket Knife - Black Handle
44223	Spring-Assisted Open Pocket Knife - Black Handle


48221922

SERRATED BLADE INSULATION KNIFE

The Milwaukee® Smooth Blade Insulation Knife is designed for optimal edge retention and durability. The stainless steel blade is engineered to stay sharper longer when cutting mechanical and HVAC insulation. A full metal tang provides durability for tough cuts and the rounded handle allows for smoothing tapes and adhesive laps. Includes a durable blade cover for storage.

Milwaukee

Part No.	Description
48221922	Serrated Blade Insulation Knife


DMK6H

UTILITY

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
DMK6H	Standard Utility Knife, Retractable Blade
N66372	Replacement blade for N66375., 5 pc.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


48221905

GENERAL PURPOSE UTILITY BLADES

Milwaukee® General Purpose Utility Blades are designed to maximize cutting performance and durability in most common jobsite materials. Milwaukee utility blades are engineered to fit Milwaukee and most standard utility knives.

Part No.	Description
48221905	General Purpose Utility Blades 5pk


31737

FOLDING JAB SAW

- Folding saw with durable carbon steel blade is as sturdy as fixed blade jab saws
- Hand saw has faster cutting blade with triple ground teeth and ability to cut in both directions
- Lockback mechanism secures the blade open at 125-degree and fully open at 180-degree
- Folded saw keeps the blade from piercing through tool pouches and bags
- Cushioned handle-end for easier palming of the saw
- Comfortable, non-slip grip handle
- Lanyard hole for tethering
- Designed to cut through drywall, wallboard, plywood, plastic, and other construction materials

Part No.	Blade Length (In.)	Overall Length (In.)	Description
31737	5.20	11.9	Folding Jab Saw


44000

SILVER ALUMINUM LOCKBACK KNIVES

The Klein Tools Lightweight Lockback Knife is made with a 2-1/4-Inch AUS8 stainless steel blade hardened to 58-59 RC. The 3-1/8-Inch handle offers ideal blade storage, and is made from impact-resistant nylon with a rubber insert for comfort. The blade features a reversible thumb stud for 1-handed opening, and can be locked in place or sharpened.

Part No.	Description
44000*	Drop Point Blade
44001*	Drop Point Blade


155011

WOOD GRAIN HANDLE POCKET KNIVES

- Coping-type blade 2-1/4-Inch (57 mm) long
- Compact and lightweight
- Ideal for skinning small wire and cable
- Blade locks open

Part No.	Description
155011*	Steel Coping Blade
155044*	Hawkbill Slitting Blade


44002

LOCKBACK KNIFE

The Klein Tools Lightweight Lockback Knife is made with a 2-3/8-Inch AUS8 stainless steel blade hardened to 58-59 RC. The 3-1/2-Inch black handle offers ideal blade storage, and is made from impact-resistant nylon with a rubber insert for comfort. The blade features a reversible thumb stud for 1-handed opening, and can be locked in place or sharpened.

Part No.	Description
44005*	Hawkbill Blade
44002*	Drop Point Blade


44032

STAINLESS STEEL COMPACT KNIFE

The Klein Tools Compact Pocket Knife has a drop point stainless-steel retractable blade. The blade can be sharpened. The beautiful rosewood handle can insert on both sides of the knife.

- Compact and lightweight knife
- Stainless steel handle and blade for long life
- Hardwood handle inserts on both sides
- Modified spearpoint blade locks open

Part No.	Description
44032*	Steel Blade

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

KNIFE, SAW


44151

POCKET-SIZED KNIFE SHARPENER

- A rugged, versatile sharpener featuring fine craftsmanship and unique design
- Sharpening rod unscrews and stores in handle for convenient carrying in tool box, pouch or pocket
- Sharpening rod is precision-cut, hard-chromed steel for accurate, consistent sharpening and long life
- Magnetized to trap metal particles when sharpening
- Handle is high-visibility orange color, with handy pocket clip

KLEIN TOOLS

Part No.	Description
44151*	Knife Sharpener

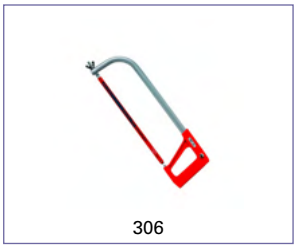

155024

SLITTING POCKET KNIFE

- Large, stainless-steel, hawkbill slitting blade 2-3/4-Inch (7 cm) long
- Ideal for heavy-duty line work
- Plastic handle
- Blade locks open

KLEIN TOOLS

Part No.	Description
155024	Hawkbill Slitting Blade


306

HACKSAW

NATIONAL REFRIGERATION PRODUCTS

Part No.	Blade Length (In.)	Overall Length (In.)	Description
306	12.00	14	Hand Hacksaw
3906300242P	12.00	12	Hacksaw Replacement Blades 2pk


48221505

FASTBACK™ 6IN1 FOLDING UTILITY KNIFE

FASTBACK™ 6-in-1 Folding Utility Knife features a press and flip mechanism providing you with an easy, one-handed opening. The 6-in-1 knife has a wire stripper, folding screwdriver, and a fold-out 1/4" bit holder. The bit holder includes a reversible Phillips #2 and slotted 1/4" bit. For added functionality, it also has extra blade storage for one blade and a built-in bottle opener. Tool-free blade change allows you to quickly and easily insert a new blade. This multifunction utility knife has a durable wire belt clip to reduce pocket tearing with a blade holder designed for scoring. The MILWAUKEE® 6-in-1 Folding Utility Knife has a metal extension that prevents accidental blade removal and a lanyard hole for convenient tethering.

- Folding 1/4" Bit Holder
- Reversible Phillips #2 and Slotted 1/4" Bit
- Wire stripper
- Bottle Opener
- Quick Change
- Durable Wire Belt Clip
- Blade Holder Designed for Scoring
- Metal Extension to Prevent Accidental Blade Removal
- Lanyard Hole

Milwaukee

Part No.	Description	Includes
48221505	FASTBACK™ 6IN1 Folding Utility Knife	Wire stripper, folding screwdriver, and a fold-out 1/4" bit holder. The bit holder includes a reversible Phillips #2 and slotted 1/4" bit. For added functionality, it also has extra blade storage for one blade and a built-in bottle opener

AWL, POINT


650

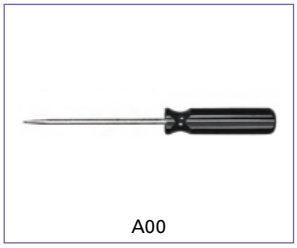
CUSHION-GRIP SCRATCH AWL

- Professional, heavy-duty, hard-pointed awl
- Scribes metal, starts screw holes, performs a variety of piercing and punching jobs
- Rigid, chrome-plated, heat-treated, tempered-steel shank has full reinforcing bolster at handle for extra strength and for handle impact reinforcement
- Internal flanges provide solid shank anchor
- Cushion-Grip handle allows for greater comfort
- Made in the USA

KLEIN TOOLS

Part No.	Handle Type	Blade Length (In)
650	Cushioned Grip	3.5

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A00

SCRATCH AWL

Blades are high carbon, alloy tool steel fully polished to resist rust. Blade tapers to a fine point and may be resharpened many times.

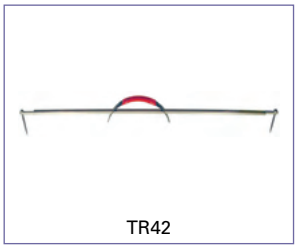
Part No.	Handle Type	Blade Length (In)
A00	Regular	3
A20	Regular	4
A2AWL	Large Diameter	4
A3AWL	Large Diameter	5


18

DIVIDER

- Accurate and fast adjusting
- Points are easily resharpened or replaced
- Nickel plated steel body

Part No.	Max. Diameter Circle (In.)	Overall Length (In.)
18	32	11
24	42	13.5


TR42

TRAMMEL POINT

- The TR42 expands to a 42" radius (84" diameter)
- All steel construction
- Points are resharpenable and also replaceable
- Telescoping arms are nickel plated to resist corrosion
- TRP - 1 pair replacement points

Part No.	Radius Range (In.)	Overall Storage Length (In.)
TR42	12	24

FILE


NRE22341

ROUND

Part No.	Description
NRE22341	Mill Bastard File
N9076R	Round Bastard

STAPLER-RIVETER



T68OC2

OUTWARD CLINCH STAPLER

- Powercrown™ tacker
- Easy squeeze design
- Compact, lightweight
- Convenient bottom load
- Unique design turns staple legs outward
- For pipe wrap, duct board and corrugated
- Professional quality

Part No.	Staple Length (In.)
T68OC2	1/2 - 9/16


STCR2619-1/2

STAPLE

Part No.	Staple Length (In.)	Use with	Carton Qty
STCR2619-1/2	1/2	Stapler PC3000-0C2	5000
STCR50193/8-5M	3/8	Stapler PC4000-0C1	5000
STCR50191/2-4M	1/2	Stapler T68OC2	4000
STCR50199/16-4M	9/16	Stapler T68OC2	4000


2IN1

HAND RIVETER

2IN1: One hand operation with normal squeezing action provides enough pulling power to set all popular size rivets. 2-in-1 adjustment features a single long stroke for most hand riveting applications and a short ratchet action power stroke for setting larger diameter rivets. Outside jaw-grip adjustment wheel opens and closes jaws with fingertip ease to fit any size mandrel and to obtain maximum stroke efficiency.

CR18: Lightweight, compact size and slim nose projection allows this riveter to go wherever the work is. Ideally suited for blind riveting applications in aluminum windows, gutter and downspout.

Part No.	Description	Includes
2IN1	Hand Riveter	3 Nose Pieces: 1/8", 5/32" and 3/16"

RULE


N9060

POWER TAPE

Rugged and durable. Exclusive no-drift locking aciont for accurate readings. Easy to read vertical numbering. Decimal equivalents for fast calculations

NATIONAL REFRIGERATION PRODUCTS

Part No.	Tape Length (Ft.)	Tape Width (In.)
N9060	16	3/4
N9061	25	1


9225

TAPE MEASURE, 25-FOOT MAGNETIC DOUBLE-HOOK

- Tape Measure with 13-Foot standout of wide, tough and durable blade
- Uncluttered, easy-to-read bold lines marked on blade every 1/8-Inch
- Heavy-duty, tough, durable nylon-coating protects blade printing and delivers longer blade life
- Retraction speed brake controls blade speed and protects fingers from touching blade
- Measurement scale printed on front and back sides of blade for versatility to address different types of measurements
- Double hook can secure tape to items such as studs, conduit, pipes, etc. on front or back side of blade to measure with either measurement scale
- Strong magnet on hook attaches to ferromagnetic objects such as steel studs, doors, panels, conduit, etc. for easy measuring
- The impact resistant housing is over-molded with a soft touch finish for excellent grip and stands up to jobsite demands
- Metal belt-clip securely holds tape measure to belts, pockets, or pouches
- Conduit Bending Table and 3-Phase Layout Guide printed on back-side of tape for convenience
- Integrated tether hole for use at height

KLEIN TOOLS

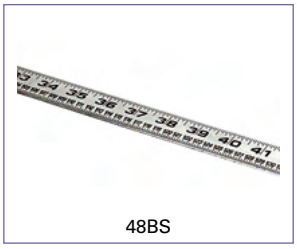
Part No.	Tape Length (Ft.)	Description
9225	25	Power tape - magnetic double hook


722

CALIPER

Utility vernier caliper.

Part No.	Description
722	Caliper 0-5" range, 1/16" and mm grad
729	Caliper 0-4" range, 1/32" and mm grad


48BS

TINNERS CIRCUMFERENCE RULE

Standard bench rule with circumference readings for sheet metal work. Made from semi-flexible, heat treated steel. Deep electro-etched markings, black filled for easy reading.

- 1 1/4" wide x 1/16" thick
- Upper scale graduations: increments to 1/16" both sides
- Lower scale graduations: 150 circumference inches in 1/8" increments both sides

Malco

Part No.	Tape Length (Ft.)	Description
48BS	48	50 circumference inches in 1/8" increments both sides

SAFETY


A713

WORK GLOVE

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Size	Box Quantity	Color
A713*	12" Long Rubber Glove	-	Pair	Blue
A1321*	Jersey Glove	-	Pair	Brown
R5281*	Leather Drivers Glove	-	Pair	White
R5290*	Nitrile Palm Coated Glove	Large	Pair	Gray/Black
R5291M*	Cut Level 5 Glove, Knit Wrist	Medium	Pair	Gray/Black
R5291L*	Cut Level 5 Glove, Knit Wrist	Large	Pair	Gray/Black
R5291*	Cut Level 5 Glove, Knit Wrist	X-Large	Pair	Gray/Black
R5292M*	Bamboo Knit Liner Glove, with Latex Finger Grips	Medium	Pair	Brown/Black
R5292L*	Bamboo Knit Liner Glove, with Latex Finger Grips	Large	Pair	Brown/Black

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Description	Size	Box Quantity	Color
R5292*	Bamboo Knit Liner Glove, with Latex Finger Grips	X-Large	Pair	Brown/Black
R5293*	Gloves with HD Thermal Chill Grip, Knit Wrist	X-Large	Pair	Light Blue/ Dark Blue
NGBL*	Powder Free Nitrile 5 Mil	Large	100	Blue
NGM*	Powder Free Nitrile 6 Mil	Medium	100	Black
NGL*	Powder Free Nitrile 6 Mil	Large	100	Black
NGXL*	Powder Free Nitrile 6 Mil	X-Large	100	Black
NGXXL*	Powder Free Nitrile 6 Mil	XX-Large	100	Black



60188

LEATHER WORK GLOVES

KLEIN TOOLS

Part No.	Size	Color
60188	Large	Tan/Black
60189	X-Large	Tan/Black



97-002M

ACTIVARMR® GLOVE

- Stainless steel and Kevlar fibres protect against snips, screws and sheet metal
- Twice as thin as standard leather with 6 times the cut protection
- Foam nitrile-dipped palm for a grip that withstands wet and dry conditions
- Ergonomic design and breathable construction offer superior comfort and dexterity

Ansell

Part No.	Size	Color	ANSI Rating
97-002M	Medium	Blue/Black	Cut Level A3
97-002L	Large	Blue/Black	Cut Level A3
97-002XL	X-Large	Blue/Black	Cut Level A3



40211-KLEIN

COLD WEATHER PRO

- Palm and fingers lined with Thinsulate C40
- Water resistant nylon back lined with Thinsulate C100
- Rubberized palm provides water resistance and grip
- 2mm EVA foam padding in the palm and 5 mm EVA foam knuckle for protection and comfort
- Neoprene thumb and cuff for comfort and water resistance

KLEIN TOOLS

Part No.	Size	Color
40211-KLEIN*	Medium	Black



NSC

SHOE COVER

NATIONAL REFRIGERATION PRODUCTS

Part No.	Size	Box Quantity	Color
NSC	X-Large	50	Black



NSVXL

HI-VIS VEST

Designed to keep your workers safe from a distance. A 5 point breakaway style ensures workers are not snagged or caught in machinery for ultimate protection. 3 inside pockets and a mic tab make this a versatile yet lightweight vest.

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Size	Color
NSVXL	4 Stripes, 2" W	X-Large	Hi-Viz Yellow



⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SAFETY


60113RL

HARD HAT WITH HEADLAMP

- Safety hard hat has patent-pending accessory mounts on front and back ensure optional Klein Headlamps attach securely and precisely, every time — no straps or zip ties needed!
- Breathable, padded sweat-wicking sweatband and top pad improve comfort and are machine washable
- Adjustable vents can be opened or closed to control air circulation in hot and cold weather
- Unique suspension system features a flexible open frame design to provide optimal fit and improved air circulation
- Class C, Type 1 hard hat with adjustable vents meets ANSI Z89.1-2014, CSA Z94.1-15; EN397:2012+A1:2012-5.2.4 (Lateral Deformation-LD); EN12492:2012-4.2.1.2, 4.2.1.3, 4.2.1.4 (Front/Back/Side impact)
- Easy, one-handed adjustment with large knob ratchet mechanism (even with gloves on), and soft neck pad pivots to clear bandanna knots and pony tails
- Universal accessory slots on both sides for attaching hearing protection, face shield and more
- This model includes Klein Rechargeable Headlamp/Worklight (Cat. No. 56062) with charging cable

KLEIN TOOLS

Part No.	Description	Size	Color	ANSI Rating
60113RL	Cap Style Vented with Rechargeable Headlamp Class C, Type 1	6.5 to 8	White	Z89.1-2014
60407RL	Full Brim Vented with Rechargeable Headlamp Class C, Type 1	6.5 to 8	White	Z89.1-2014


NSBEP

HEARING PROTECTION

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
NSBEP	Banded ear plugs designed to wear around the neck when not in use


NSKM

KNEE PROTECTION

- Hinged Gel Knee Pads are designed with a top strap positioned above the knee to reduce shifting and to keep the knee pad centered
- Lightweight multi-layer pressure absorbing gel padding system provides heavy duty knee support for all-day comfort
- Durable slip-resistant rounded synthetic rubber kneecaps grip work surfaces for ultimate stability while allowing side-to-side mobility
- Adjustable elastic straps allow you to dial in a custom fit
- Quick-release clips secure upper and lower straps for easy on/off
- Breathable mesh and neoprene lining to keep you cool
- Designed for professional men and women in trades that require work on or near the ground
- Perfect for indoor/outdoor work in electrical, construction, flooring installation and cleaning, roof repair, welding, gardening and car repair
- Sold in pairs

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
NSKM	Industrial strength kneeler, waterproof. W/ curved handle and contoured design.
NSKP	KneePro Ultra Flex III knee pads, virtually indestructible (2/pk)


60511

KNEE PAD SLEEVES

Heavy Duty Knee Pad Sleeves from Klein Tools provide triple layer protection and all day comfort. Unique, compact design keeps knee pads close to the body and centered for a second-skin fit, allowing agility for working in tight spaces. Stay cool and comfortable with the lightweight, breathable mesh back. Can be worn under or over pants. Perfect for the jobsite and weekend tasks.

- Heavy Duty Knee Pad Sleeves can be worn under or over pants for all day wear
- Triple layer protection with interior neoprene foam padding for all-day comfort
- Ergonomically engineered flexible padding with anti-abrasion layer contours to leg shape for ultimate comfort
- Unique design keeps knee pads close to the body for a second-skin fit allowing for agility when working in tight spaces

KLEIN TOOLS

Part No.	Size	Color
60511	M/L	Black
60611	L/XL	Black


60344

HINGED KNEE PADS

The Hinged Knee Pads from Klein Tools are designed for all-day comfort and protection for the toughest jobs. The top strap is positioned above the knee to keep the pad centered in place. The multi-layer gel-like padding system is designed to support the knees to reduce pressure and fatigue after all-day wear. Heavy duty synthetic rubber knee caps provide ultimate protection while allowing for side-to-side mobility. Quick-release clips and adjustable elastic straps allow for easy on/off.

- Hinged Knee Pads are designed with a top strap positioned above the knee to reduce shifting and to keep the knee pad centered
- Lightweight multi-layer pressure absorbing gel-like padding system provides heavy duty knee support for all-day comfort
- Durable slip-resistant rounded synthetic rubber kneecaps grip work surfaces for ultimate stability while allowing side-to-side mobility

KLEIN TOOLS

Part No.	Size	Color
60344	Adjustable	Black


SDK111VSG2

SAFETY GLASSES, NRP

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Color	ANSI Rating
SDK111VSG2	Clear Lens	Black Frame	Z87+
DZ111G2	Clear Lens	Black Frame	Z87+
TXBAP239	Red Lens	Matte Black Frame	Z87+
TSK215	Copper Lens	Black Frame	Z87+
SW116	Smoke Lens	Black Frame	Z87+
TSK236	Smoke Lens	Black Frame	Z87+
DZ116G2	Smoke Lens	Black Frame	Z87+
TSDKAP248G2	Aqua Blue Lens	White Frame	Z87+
TXB236	Polarized Smoke Lens	Black Frame	Z87+
TSKAP218	Polarized Aqua Precision Blue Mirror Lens	Black Frame	Z87+


SK117

KAZBEK SAFETY GLASSES

Kazbek Z87+ safety glasses were designed for long days and demanding conditions. These safety glasses have an unmistakable lifestyle shape, available polarized lenses and an anti-scratch coating. The Kazbek's frame is constructed of a nylon composite material that can be tied into a knot. And while we don't recommend tying yours into a knot, the rugged flexibility of the frame means you get a comfortable, yet equally durable, pair of safety glasses with an ANSI Z87+ rating. Plus, with the addition of Edge-Flex™ temples that conform to the side of the head, the Kazbek serves up a tailored fit. A thermoplastic rubber (TPR) nosepiece offers comfortable, non-slip performance. And the lenses block 99.9% of UVA, UVB and UVC rays.

EDGE

Part No.	Description	Color	ANSI Rating
SK117	Silver Mirror Lens	Metal Detectable, Black Frame	Z87+


SW111CF

DAKURA SAFETY GLASSES

Dakura features a wraparound design and close-fitting lenses to keep debris and jobsite hazards out. Its thermoplastic rubber (TPR) temple tips and molded nosepiece maximize comfort. And the Dakura's durable nylon frame and polycarbonate lenses ensure long-lasting protection. Available in various shades of polarized lenses, the Dakura is built to defend eyesight from the unforeseen–and from harsh glare. Whether you need safety glasses for the jobsite or impact-rated sunglasses for your next rugged adventure, the Dakura is a surefire eyewear companion.

EDGE

Part No.	Description	Color	ANSI Rating
SW111CF	Clear Lens	Camouflage Frame	Z87+
SW111VS	Clear Lens	Black Frame	Z87+
SW114	Amber Lens	Black Frame	Z87+
SW112-CF	Yellow Osha Compliant	Camouflage	Z87+

SAFETY


XB116

BRAZEAU SAFETY GLASSES

Brazeau's ANSI Z87+ safety rating, wraparound design and sleek brow guards keep the sun out and impact protection high. The Brazeau is a fan favorite among those looking for safety glasses with polarized lenses. The Edge Brazeau features a durable frame and scratch-resistant lenses. Plus, they block 99.9% of UVA, UVB and UVC radiation– while keeping glare to a minimum with its wraparound design.

Part No.	Description	Color	ANSI Rating
XB116	Smoke Lens	Black Frame	Z87+
XB116G	Smoke Lens	Black Gargoyle Frame	Z87+
XB116K	Smoke Lens	Black Shark Frame	Z87+
XB116S	Gray Lens	Metal Detectable, Black Frame	Z87+
XB136	Smoke Lens	Metal Detectable, Black Frame	Z87+


DZ111

ZORGE SAFETY GLASSES

Zorge Z87+ safety glasses comes with a flexible nylon frame for comfort, thermoplastic rubber (TPR) nosepiece for anti-slip properties, scratch-resistant lenses and a comfortable, wraparound fit. And it's all wrapped in a comfortable and lightweight package, so you can enjoy them as much on the job site as off. Each lens in the Zorge G2 lineup blocks 99.9% of UVA, UVB and UVC rays.

Part No.	Description	Color	ANSI Rating
DZ111	Clear Lens	Black Frame	Z87+
DZ113	Light Blue Lens	Black Frame	Z87+
DZ1111.5	Reading Clear Lens	Black Frame	Z87+


XF111L

OSSA SAFETY GLASSES

Ossa OTG is an ANSI Z87+-approved over-glasses safety glass. These durable and affordable over-the-glass (OTG) safety glasses accommodate prescription frames up to 135mm wide and block 99.9% of UVA, UVB and UVC rays. Impact-resistant polycarbonate lenses and durable nylon frames mean the Ossa will stand the test of time and offer peace of mind in hazardous conditions.

Part No.	Description	Color	ANSI Rating
XF111L	Clear Lens	Black Frame	Z87+
XF116L	Smoke Lens	Black Frame	Z87+


SD111ARG2

DELANO SAFETY GLASSES

Delano G2 has an anti-slip details and a forgiving nylon frame that offers a custom-like fit. The Delano G2 offers more comfort, dollar for dollar, than virtually any other safety glass. With lens options to suite a variety of environments and light conditions, these ANSI-rated safety glasses are ready to provide total peace of mind in any setting. Soft nosepieces help keep the Delano G2 in place when you're hard at work, and its wraparound design defends from side impacts and offers more glare protection than some flatter-profile frame designs.

Part No.	Description	Color	ANSI Rating
SD111ARG2	Clear Lens	Metal Detectable, Black Frame	Z87+


SR116

RECLUS SAFETY GLASSES

Reclus is a sporty and comfortable Z87+-approved safety glasses and features thermoplastic rubber (TPR) nosepieces to enhance comfort, while keeping them securely where they need to be: On your face. The Reclus features a wraparound design and ANSI Z87+ rating to ensure airborne debris or jobsite hazards stay away from your eyes. And with available polarized lenses, the Reclus can be a worthy weekend companion for demanding days under bright rays. Whether you need impact-rated sunglasses for DIY projects around the house or safety glasses for gettin' it done during the workweek, let the Reclus defend your sight in style.

EDGE

Part No.	Description	Color	ANSI Rating
SR116	Smoke Lens	Metal Detectable, Black Frame	Z87+


SDK117

ZHOR SAFETY GLASSES

Khor Z87+ safety glasses are ideal for professionals who require a frame that offers an unobstructed field of vision and ANSI-approved shatter-resistant lenses. With our proprietary anti-fog technology, you can experience visual clarity in even the most hazy environments. The Khor safety glasses feature uncompromising comfort and a bold style wrapped into a blade-style frame. These Z87+ safety glasses are constructed with a flexible nylon frame for durability and comfort. Plus, an adjustable thermoplastic rubber (TPR) nosepiece adapts to a variety of face shapes and helps keep them from slipping around when the going gets tough.

EDGE

Part No.	Description	Color	ANSI Rating
SDK117	Silver Mirror Lens	Metal Detectable, Black Frame	Z87+
TSDK21DCK	Smoke Lens	Camouflage Frame	Z87+

TOTE


62800BP

TRADESMAN PRO™ XL TOOL BAG BACKPACK, 40 POCKETS

- Tool Bag Backpack with large interior to easily carry power tools, zipper bags, and equipment
- 40 pockets for maximum tool and gear storage and includes a spacious interior for power tools
- Curved, fully-molded bottom is comfortable to wear and helps protect contents from the elements
- 1.5-Foot USB-C cord is included with a cord management system
- Exterior port for charging devices outside of the tool backpack
- Hard, molded front pocket with dividers help protect items like phones and safety glasses
- Constructed with durable water resistant 1680d ballistic weave material
- Easily organize and access frequently-used tools in front pocket
- Main zipper designed to open bag fully for easy access
- Exterior tape measure clip and tape loop
- Extra padding on the shoulder straps

KLEIN TOOLS

Part No.	Description	Includes	Color	Overall Length (In)
62800BP*	XL Tool Bag Backpack	40 Exterior and Interior Pockets	Black/ Orange	14.75
62800BPCAMO*	XL Tool Bag Backpack	40 Exterior and Interior Pockets	Camo	14.75


5112

MISCELLANEOUS KLEIN TOOL ACCESSORIES

KLEIN TOOLS

Part No.	Description	Color	Overall Length (In)
5112*	Pliers Holder with Closed Bottom for use with 7" to 9" side cutting pliers	Black	3.25
51079*	Pliers Holder, for 8 and 9-Inch Pliers, Open Bottom	Black	3.75
5415S*	Heavy-Duty Embossed Leather Tool Belt, Small	Tan	43.00
5705*	PowerLine™ Web Work Belt - Adjustable, fits waist sizes up to 52"	Black	60.00
5139B*	Zipper Bag, Cordura Nylon Tool Pouch	Black	12.5
5129*	Flashlight Holder	Black	3.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

TOTE



55921

TRADESMAN PRO™ MODULAR WALL RACK

- Heavy-duty anodized aluminum rack securely stores three Modular Tool Pouches
- Designed for use with the Click Lock™ Modular System
- Quick-release clip design allows for easy change of tool pouches
- Comes with mounting hardware to secure in garage, shop, or work van
- Three adjustable mounts slide on bar to accommodate pouch configurations
- Use with Modular Piping, Open, Trimming and Drill Pouches (Cat. Nos. 55912, 55913, 55914, and 55917)

Part No.	Description	Color	Overall Length (In)
55921	Modular Wall Rack to use with Click Lock™ Modular System	Black	24



VETO-EDCPACGRAY

EDC PAC LCB BACKPACK W/ BASE

- Optimized capacity for everyday carry
- 36 interior and exterior pockets
- Expandable side pockets for water bottles and other items
- Separate padded laptop compartment with tablet sleeve
- Multiple D-Ring lashing points and Molle loops
- Trolly handle pass-through
- Over-molded haul handle
- Injection molded polypropylene waterproof base

Part No.	Description	Includes	Color
VETO-EDCPACGRAY	Every Day Carry Backpack with Base, Gray	36 Exterior and Interior Pockets	CARBON
VETO-EDCPACOLIVE	Every Day Carry Backpack with Base, Olive	36 Exterior and Interior Pockets	OLIVE



VETO-TPXL

TP ZIPPERED TECHNICIAN TOOL POUCH

- 47 available pockets
- External daisy chain for attaching pouches and accessories
- V-SWAP™ removable tool pocket panel system
- Includes rear tablet pocket & 2 padded meter pockets
- "Hang-up" hook - accessible while open and closed
- Over-molded rubber grip
- Padded shoulder strap
- YKK® zippers
- High Impact Polypropylene plastic base

Part No.	Description	Includes	Color
VETO-TPXL	Tool Bag XL	32 Exterior and Interior Pockets	OLIVE
VETO-TPXXL	Tool Bag XXL	46 Exterior and Interior Pockets	Gray
VETO-TPXXL-BLACKOUT	Blackout XXL Tool Bag	47 Exterior and Interior Pockets	Black
VETO-TP-XXL-INFRARED	Infrared XXL Tool Bag	47 Exterior and Interior Pockets	Black and Red
VETO-TP-XXL-SPCL-OPS	Special Ops XXL Tool Bag	47 Exterior and Interior Pockets	Black and Hi-Viz yellow



VETO-TECH-OT-LC

TECH-OT-LC LARGE CAPACITY WIDE OPEN TOTE

- 38 Available Pockets
- V-SWAP™ Removable Tool Pocket Panel System
- Optional Bulk Panel Storage Included
- 2 Movable Plastic Partitions
- Holds Up To 4 Removable Insert Boxes
- 1 Magnetic Lid and Insert Boxes
- Exterior Utility Pocket
- Electrical Tape Strap
- Padded Shoulder Strap

Part No.	Description	Includes	Color
VETO-TECH-OT-LC	Large capacity wide open tote	38 Pockets	Black and Brown
VETO-TECH-OTLC-BLACKOUT	Blackout Large capacity wide open tote	43 Pockets	Black



VETO-LBC15-CARBON

LBC LUNCH COOLER

- Holds up to 12 16oz/473ml beverage cans OR 12 12oz long neck bottles OR 16 12 oz cans
- Zipperless air-tight access with magnetic latch
- 300in3/5 liters of addtional storage in lid
- 6 exterior pockets
- Injection molded removable liner
- Rigid foam insulation
- Removeable Dry Storage Tray
- Zippered exterior pocket
- Removable carrying handle & shoulder strap
- Reflective accents for safety
- Over-molded TPR rubber waterproof polypropylene base

Part No.	Description	Includes	Color
VETO-LBC15-CARBON	15 Liter Lunchbox-sized cooler	6 Exterior Pockets	Black



VETO-TECH-PAC

TECH-PAC BACKPACK TOOL BAG

- V-SWAP™ removable tool pocket panel system
- Interior magnetic screw catcher
- Thermoformed cushioned EVA back pad
- Waterproof polypropylene plastic base
- Quick release metal hasp supports load & allows easy access to rear storage bay
- YKK® zippers

Part No.	Description	Includes	Color
VETO-TECH-PAC	HVAC service technician backpack	56 Exterior and Interior Pockets	Black
VETO-TECH-PAC-BLACKOUT	Blackout HVAC service technician backpack	56 Exterior and Interior Pockets	Black
VETO-TECH-PAC-MC	Compact backpack	39 Exterior and Interior Pockets	Black
VETO-TECH-PAC-MC-BLACK	Small Blackout Compact backpack	36 Exterior and Interior Pockets	Black
VETO-TECH-PAC-MCP-RED	Small Infrared Compact backpack	51 Exterior and Interior Pockets	Black and Red
VETO-TECH-PACMC-SPCL-OPS	Small Special Ops Compact backpack	39 Exterior and Interior Pockets	Black and Hi-Viz yellow
VETO-TECH-PAC-SPCL-OPS	Special Ops Compact backpack	56 Exterior and Interior Pockets	Black and Hi-Viz yellow
VETO-TECHPACLT	Laptop backpack tool bag	36 Exterior and Interior Pockets	Black
VETO-TECH-PAC-WHEELER	Wheeler Backpack	48 Exterior and Interior Pockets	Black



VETO-TECH-MC

TECH-MC TOOL BAG

- V-SWAP™ removable tool pocket panel system (panels available & sold separately)
- 48 Interior & exterior pockets of varying sizes
- 2 external side pockets for separate meter or tool storage
- Neoprene meter pockets for meters/testers
- Holds over 50 hand tools
- Waterproof Polypropylene plastic base for moisture and abrasion protection
- Extra wide padded shoulder strap
- Articulating/fold-flat handle with over-molded ergonomic grip
- YKK® zippers

Part No.	Description	Includes	Color
VETO-TECH-MC	Compact Tool Bag	38 Exterior and Interior Pockets	Black
VETO-TECH-MCTP-INFRARED	Infrared Compact Tool Bag	55 Exterior and Interior Pockets	Black and Red
VETO-TECH-MCT	Medium Compact Tool Bag	44 Exterior and Interior Pockets	Black
VETO-TECH-MCT-SPCL-OPS	Special Ops Medium Compact Tool Bag	48 Exterior and Interior Pockets	Black and Hi-Viz yellow



VETO-MB5B

MB5B TOOL BAG

- 21 exterior tool pockets
- Rear padded tablet computer pocket
- External daisy chain for attaching pouches or accessories
- All- Black Detachable/optional backpack straps
- 2 padded side-mounted meter or tool pockets with repositionable interior pockets
- V-SWAP™ removable component system - choose from several included or optional panels
- “Hang-up” hook - accessible while open and closed
- Over-molded rubber grip
- 8” electrical tape strap
- Waterproof Polypropylene plastic base for moisture and abrasion protection

Part No.	Description	Includes	Color
VETO-MB5B	Tool Bag	30 Exterior and Interior Pockets	Black and Olive
VETO-MB5B-INFRARED	Infrared Tool Bag	21 Exterior and Interior Pockets	Black and Red

TOTE

STRAP



VETO-TAPE STRAP

Part No.	Description	Color
VETO-TAPE STRAP	8" Electrical Tape Strap	Black
VETO-POUCHSTRAP	42" Pouch Shoulder Strap	Black
VETO-EXTRASHOULDERSTRAP	56" Extra Padded Shoulder Strap	Black
VETO-SHOULDERSTRAP	50" Padded Shoulder Strap	Black

SB-LD TOOL AND METER BAG



VETO-SB-LD

- Dedicated Open-Top Tool Storage Section for quick and easy access to tools
- Closed-Top Meter/Tester Storage Section w/ V-SWAP™ panel
- Waterproof Polypropylene plastic base for moisture and abrasion protection
- 1 Tape Loop
- 27 Total Exterior and Interior pockets
- 1 Stainless Tape Clip
- "Hang-up" hook
- Tarpaulin covered rear pocket for added weather and abrasion protection
- Detachable over-molded elastomeric grip handle
- YKK® zippers
- V-SWAP™ removable tool pocket panel system

Part No.	Description	Includes	Color
VETO-SB-LD	Hybrid Tool and Meter Bag	27 Exterior and Interior Pockets	Black

OTMC OPEN TOOL BAG



VETO-OTMC

- 28 Interior & Exterior Pockets
- Outside Mounted Stainless Steel Tape Clip
- Interior Injection Molded Plastic Box with Smaller Repositionable "Insert" Box with Lid
- Waterproof 3mm Polypropylene Base
- Over-molded Ergonomic Grip
- Shoulder Strap

Part No.	Description	Includes	Color
VETO-OTMC	Compact Open Top Bag	28 Exterior and Interior Pockets	Black

TP MULTI-FUNCTIONAL POUCH



VETO-SC-45

Part No.	Description	Includes	Color
VETO-SC-45	Small Multi-functional Pouch	6 Pockets	Black
VETO-TP3B	Tool organizer	18 pockets	Black
VETO-TP4B	Tool organizer	20 pockets	Black
VETO-TP6B	Tool organizer	25 pockets	Black
VETO-TP-LC	Closable large Closable Tool Pouch	35 pockets	Black

SP-MC CLOSED-TOP TOOL POUCH



VETO-SP-MC

- Top-down flap access with zippered 2-way access pocket, reachable from inside or outside
- Removable Tool Pouch with pockets for screwdrivers, pliers, thru-pockets, pencil pockets, stainless steel tape measure clip, electrical tape strap, and magnetic flap for securing to a waist belt or trouser pocket.
- Removable Drill Holster for 12V-18V drills with 4 drill bit pockets, stainless steel tape measure clip, optional lanyard for securing drill, and magnetic flap for securing to a waist belt or trouser pocket.
- 11 internal pockets
- V-SWAP™ interchangeable panel system
- Tarpaulin covered rear pocket for added weather & abrasion protection
- "Hang-up" hook
- Detachable over-molded elastomeric grip
- YKK® zippers
- Waterproof Polypropylene plastic base for moisture and abrasion protection

Part No.	Description	Includes	Color
VETO-SP-MC	Compact Closed-top Tool Pouch	27 Exterior and Interior Pockets	Black and Olive


VETO-TP-XD

TP-XD ONE-SIDED, CLOSABLE COMPACT-SIZED TOOL POUCH

- V-SWAP™ removable tool pocket panel system; up to 24 internal pockets
- 7 external tool pockets
- Backside tablet pocket
- Magnetic screw catcher
- "Hang-up" hook
- Over-molded rubber grip
- Padded shoulder strap
- YKK® zippers
- Deep base for stability
- Waterproof Polypropylene plastic base for moisture and abrasion protection

Part No.	Description	Includes	Color
VETO-TP-XD	BLACKOUT Closable Tool Pouch	31 Exterior and Interior Pockets	Black


VETO-XXL-F

XXL-F EXTRA LARGE TOOL BAG

- Vertical Tool Pockets (inside): 48 inside & 3 outside
- Flat Zippered Pockets (outside): 4 inside & 2 outside
- Neoprene Pockets: none
- D-Rings: 4 large and 5 small
- Exterior Electrical Tape Loop: 8" Fabric with Clip Closure
- Stainless Steel Tape Clip
- Waterproof Base: 3mm Injection Molded Polypropylene
- Waterproof Body Fabric: 1800 PVC Impregnated Denier Nylon
- Waterproof Tool Pocket Fabric: 1800 PVC Impregnated Denier Nylon
- Handle: Injection Molded Nylon Plastic w/ over-molded rubber grip
- Zippers: Double Stitched, Heavy Duty Plastic Coil Zippers with Oversized Zipper Tabs
- Fold-Back Snaps: 6 zinc, marine grade
- D-Rings: Powder Coated Steel
- Rivets: 38 zinc, marine grade rivets
- Stitching: Industrial Strength Double Nylon Stitching

Part No.	Description	Includes	Color
VETO-XXL-F	XL Tool Bag	54 Exterior and Interior Pockets	Black and Brown


VETO-TECH-LC

TECH-LC TECH TOOL BAG

- Vertical Tool Pockets: 50 inside & 3 outside
- Flat Zippered Pockets: 4 inside & 2 outside
- Neoprene Pockets: 2
- D-Rings: 4 large and 5 small
- Exterior Electrical Tape Loop: 8" Fabric with Clip Closure
- Stainless Steel Tape Clip
- Detachable padded shoulder strap
- Waterproof Base: 3mm Injection Molded Polypropylene
- Waterproof Body Fabric: 1800 PVC Impregnated Denier Nylon
- Waterproof Tool Pocket Fabric: 1800 PVC Impregnated Denier Nylon
- Handle: Injection Molded Nylon Plastic w/ over-molded rubber grip
- Zippers: Double Stitched, Heavy Duty Plastic Coil Zippers with Oversized Zipper Tabs
- Fold-Back Snaps: 6 zinc, marine grade
- D-Rings: Powder Coated Steel
- Rivets: 38 zinc, marine grade rivets
- Stitching: Industrial Strength Double Nylon Stitching

Part No.	Description	Includes	Color
VETO-TECH-LC	Large Tech Tool Bag	53 Exterior and Interior Pockets	Black


VETO-TECH-XL

TECH-XL TECH TOOL BAG

- Vertical Tool Pockets: 80 interior and exterior pockets of various sizes
- Neoprene Pockets: 2 Large, 3 Medium and 9 Small (for bits or memory sticks)
- D-Rings: 4 large and 5 small
- 8" Electrical Tape Strap
- Stainless Steel Tape Clip
- Waterproof Base: 3mm Injection Molded Polypropylene
- Waterproof Body Fabric: 1800 PVC Impregnated Denier Nylon
- Waterproof Tool Pocket Fabric: 1800 PVC Impregnated Denier Nylon
- Handle: Injection Molded Nylon Plastic w/ over-molded ergonomic rubber grip
- Zippers: Double Stitched, Heavy Duty Plastic Coil Zippers with Oversized Zipper Tabs
- Fold-Back Snaps: 6 zinc, marine grade
- D-Rings: Powder Coated Steel
- Rivets: 38 zinc, marine grade rivets
- Stitching: Industrial Strength Double Nylon Stitching

Part No.	Description	Includes	Color
VETO-TECH-XL	XL Tech Tool Bag	80 Exterior and Interior Pockets	Black

TOTE



VETO-HOSE-HAULER

HOSE HAULER

- Up to 6 pockets
- Water/oil resistant tarpalon interior for easy clean up
- 2 exterior molle straps
- Removable interior pouch
- 2 Removable Dividers
- 2 Exterior D-Rings
- Rugged bottom to prevent tears and scratches
- YKK® zippers

VETO PRO PAC TOOL BAGS THAT WORK

Part No.	Description	Includes	Color
VETO-HOSE-HAULER	Hose Hauler	6 pockets	Black



VETO-MB

MB CLIP-ON METER BAG

Clip-on meter bag designed to hold a small selection of tools and one or two meters. When not in use it can clip onto any model Veto bag's tape clip or D-Rings.

VETO PRO PAC TOOL BAGS THAT WORK

Part No.	Description	Includes	Color
VETO-MB	Small Meter Tool Pouch	10 Exterior and Interior Pockets	Black
VETO-MB2	Tall Meter/Tool Pouch	10 Exterior and Interior Pockets	Black
VETO-MB3	Large Zippered Diagnostic Bag	13 Exterior and Interior Pockets	Black
VETO-MB3B	Large Meter Bag	10 Exterior and Interior Pockets	Black
VETO-MB4B	Gate Mouth Style Meter Bag	14 Exterior and Interior Pockets	Black and Olive



58888

TOOL TOTE

- Constructed of rugged, 600 x 300 denier polyester to resist wear and tear on the jobsite.
- 2" wide, 900 lb-test, polypropylene padded carrying handles with comfortable leather wrap.
- Water-resistant to avoid the build-up of mold and mildew.
- Pockets hold a wide assortment of tools and supplies.
- Durable molded bottom with drain holes to prevent water retention.
- Contoured, padded, slip-resistant shoulder strap for hands-free mobility

KLEIN TOOLS

Part No.	Description	Includes	Color	Overall Length (In)
58888*	Tool Tote with Shoulder Strap	12 Exterior and Interior Pockets	Black	15.5
58890*	Tool Tote with Shoulder Strap	17 Exterior and Interior Pockets	Black	15.5



5189

TRADESMAN PRO ORGANIZER HARD CASE

- Hard shell protects tools, meters, small parts and tech devices
- Soft interior lining
- Durable zipper closure

KLEIN TOOLS

Part No.	Description	In-cludes	Color	Overall Length (In)
5189*	Large Hard Case	1 Pockets	Black with Gray and Orange Trim	10.25



554158

TRADESMAN PRO™ ORGANIZER

- Orange interior for easy tool visibility.
- Tough, durable feet protect from the elements.
- 1680d ballistic weave for durability (600D for 55452RTB)

KLEIN TOOLS

Part No.	Description	Includes	Color	Overall Length (In)
554158*	8" Tool Bag Tool Tote	20 Exterior and Interior Pockets	Black/ Orange	8
5541610*	10" Tool Bag Tool Tote	40 Exterior and Interior Pockets	Black/ Orange	10
55419SP*	10" Tool Bag Shoulder Pouch	14 Exterior and Interior Pockets	Black/ Orange	8
55431*	15" Tool Bag Lighted Tool Bag	31 Exterior and Interior Pockets	Black/ Orange	15.25
55452RTB*	19" Rolling Tool Bag	24 Exterior and Interior Pockets	Black/ Orange	19
55485*	Tool Master Backpack	48 Exterior and Interior Pockets	Black with Orange/ Gray	11
55461*	Phone Holder, Large - Cases up to 5.5" x 3.25" x 0.625"	-	Black	3.3



5127

MULTI-POCKET TOOL POUCHES

Durable and moisture-resistant black leather pouch designed for electricians, service techs, and maintenance workers

KLEIN TOOLS

Part No.	Description	Includes	Color	Overall Length (In)
5127*	Tool Pouch	6 Pockets	Black	7
516-5*	Tool Pouch Knife Snap	10 Pockets	Black	10

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


510216

CANVAS TOOL BAG

- Heavy-duty No. 8 natural canvas tool bag
- Two retaining straps with buckles provide secure closure
- Moisture resistant vinyl bottom with non-scratch feet to protect against wear
- Stitched and riveted leather handles for comfort and strength
- Rivet-reinforced for durability
- Steel-frame mouth with hinge for rugged use

Part No.	Description	Includes	Color	Overall Length (In)
510216*	16" Canvas Tool Bag	Open	Natural/ Brown	16
5003-18*	18" Canvas Tool Bag	11 Pockets	Natural/ Black	18
5141P*	Canvas Utility Bag	2 Pockets	Natural/ Black	10


5140

CANVAS ZIPPER BAGS

- Constructed of No. 10 canvas with heavy-duty brass zipper.
- Convenient storage for pliers, wrenches, screwdrivers, nut drivers and other tools and spare parts.

Part No.	Description	Color	Overall Length (In)
5140*	Canvas Zipper Bag	Olive, Orange, Royal Blue, Yellow	12.5
5139*	Canvas Zipper Bag	Natural	12.5


ECP135

E-CHARGE USB CHARGING TOOL BACKPACK

- Backpack includes an internal USB charging system with a removable power bank that simultaneously charges 2 devices.
- Removable power bank with 2 USB ports for internal charging and a micro USB port to recharge the power bank.
- Vertical pockets keep tools in sight for quick access.
- Padded web carrying handles and adjustable shoulder straps.
- Holds a multitude of tools and accessories like drills, pliers, screwdrivers, wrench sets, drill bits, testers and much more (not included)
- Base pad feet help reduce wear and abrasion.
- Backpack includes: Charging Power Bank, Internal USB Charging Ports, Internal Charging USB Connector, Micro USB Power Bank, Recharge Connector Cable, AC Power Bank Recharge Wall Adaptor

Part No.	Description	Includes
ECP135*	E-Charge USB Charging Tool Backpack	23 Exterior and Interior Pockets
ECPL38*	E-Charge Lighted USB Charging Tool Backpack	29 Exterior and Interior Pockets


1537

MULTI-COMPARTMENT TOOL CARRIER

- 20 Multi-use pockets inside and 10 pockets outside to organize tools and accessories.
- Zippered side panel prevents spillage of tools when carrying or storing carrier.
- Vertical pockets keep tools in sight for quick access.
- Padded web carrying handles and adjustable shoulder strap.
- Approx. 13"L x 7"W x 13"H

Part No.	Description	Includes	Color	Overall Length (In)
1537*	13" Multi-compartment tool carrier	20 Exterior and Interior Pockets	Black	13

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STORAGE



1152

BUCKET TRAY

Durable, lightweight plastic RoundUps™ bucket tray stacks or nests neatly in most 3?- to 5-gallon buckets, perfect for organizing small parts and fasteners. With unique "pop-up" carrying handle.

Part No.	Description	Color
1152*	2 1/2" RoundUps™ Bucket Tray	Off-White
1154*	4" RoundUps™ Bucket Tray	Off-White



1119

BUCKET ORGANIZER

Part No.	Description	Includes	Color
1119*	Bucket Organizer	48 Exterior and Interior Pockets	Black



URIBUCKET

BUCKET

- Order the lid separately

Part No.	Description	Color
URIBUCKET*	5 Gallon Bucket, Empty	Blue
URIBUCKETLIDG*	Lid with Gasket and Spout	Blue



N5444

COMPARTMENT BOX

Part No.	Description	Includes	Overall Length (In)
N5444	Metal Box, w/ Lid and Handle	24 Compartment	13.38

MODBOX



54100MBX

MODBOX TOOLBOX

- MODbox™ components easily interconnect for a customized mobile workstation
- Carries up to 250 pounds of tools and equipment
- 10-Inch solid rubber wheels and removable telescoping handle provide rugged mobility
- Case-compatible lid includes V-groove and molded-in ruler for cutting and measuring
- IP65-rated, impact-resistant polymers keep tools clean and dry
- Built-in side rails accept MODbox™ attachments for expansion
- Steel-reinforced lock point supports padlocks or cable locks
- Built-in headlamp bracket provides hands-free illumination

Part No.	Description	Color	Overall Length (In)
54100MBX	Rolling Toolbox	Orange	22.00
54200MBX	Medium Toolbox	Orange	22.00
54300MBX	Small Toolbox	Orange	22.00
54400MBX	Component Box, Full Width	Orange	22.00
54500MBX	Component Box, Half Width	Orange	10.90



54801MB

MODBOX TOOLBOX

Klein Tools MODbox™ Drawer Toolboxes have reinforced bottoms and heavy-duty ball bearing slides for smooth operation. Integrated locking bar secures drawer contents. Each come with removable dividers for optimal storage flexibility. Made with impact resistant polymers and supports 50-Pound (22.7 kg) capacity. Easily connects with other MODbox™ components to make a custom mobile workstation.

Part No.	Description	Color	Overall Length (In)
54801MB	Two Drawer Rolling Tool Box	Orangs	22.30
54821MB	Single Drawer Toolbox	Orange	22.30
54822MB	Two Drawer Toolbox	Orange	22.30
54823MB	Three Drawer Toolbox	Orange	22.30

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54814MB

MODBOX ATTACHMENTS

Part No.	Description	Color	Overall Length (In)
54814MB	Tool Carrier Rail Attachment	Dark Gray	8.10
54815MB	Parts Bin Rail Attachment	Dark Gray with Clear Lid	8.25
54816MB	Multi-Hook Rail Attachment, 2-Pack	Dark Gray	2.30
54817MB	Cup Holder Rail Attachment	Orange/Dark Gray	4.20
54818MB	Internal Rail Accessory	Dark Gray	17.00
54819MB	Magnetic Strip Rail Attachment	Dark Gray	7.40


56417

MODBOX RECHARGEABLE DUAL BEAM LED WORK LIGHT

- MODbox™ Rechargeable Dual Beam Work Light is a 2-in-1 flood and spot work light with high, medium, and low modes for multiple lighting applications
- Rotates 360-degree for easy adjustment to create customizable lighting angles
- Three mounting options for hands-free use including MODbox™ rail compatibility, magnetic base and a hanging hook
- LED light modes are All On: 3000 lumens for 3 hours; Spot: 1400 lumens for 5 hours, 475 lumens for 9.5 hours; Flood: 1400 lumens for 8 hours, 700 lumens for 10 hours, 250 lumens for 12 hours
- USB-A output charges small electronics and can power share between units
- Battery gauge indicates remaining battery level
- IP65 rating: dust-tight and water resistant

Part No.	Description	Includes	Color
56417	Rechargeable Dual Beam LED Work Light	Battery, USB-C Charging Cable	Orange/ Black


62201MB

MODBOX BAGS

- Connects to other MODbox™ components and easily unlocks with one hand
- Constructed with durable water resistant 1680d ballistic weave material
- Fully molded bottom protects from the elements

Part No.	Description	Includes	Color	Overall Length (In)
62201MB	Electrician's Backpack	32 pockets	Black/ Orange	15.5
62203MB	Tool Bag	28 pockets	Black/ Orange	15.3
62202MB	Tool Tote	33 pockets	Black/ Orange	17


65238

KNECT™ ESSENTIAL DEEP-WELL HEAVY-DUTY FLIP SOCKET SET, SAE 7-PIECE

- Multi-purpose adapter makes the sockets compatible with the Klein KNECT™ system for unlimited driving potential
- Deep Well Impact Flip Socket set includes six sizes combined into three color coded sockets, adapters, and 1/4-Inch square drive ratchet
- Stack two sockets on the extended shaft to quickly change socket sizes and reduce the number of tools needed
- Klein KNECT™ specialized 1/4-Inch square drive adapter compatible with Klein Tools pass through socket wrench (Cat. No. 65300) and any 1/4-Inch square drive ratchet
- 72-tooth 1/4-Inch square drive low profile ratchet for extra clearance in tight spaces
- Compact, modular storage system with a clear lid is compatible with MODbox™ and stackable with other cases of its similar design

Part No.	Description	Includes
65238	7-piece Essential Deep-Well Heavy-Duty Flip Socket Set, SAE	Drive Size 1/4", 3/8": Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16": Case

MODBOX



65618

KNECT™ FLIP-10 HEAVY DUTY FLIP IMPACT SOCKET SET, SAE, 8-PIECE

- Multi-purpose adapter makes the sockets compatible with the Klein KNECT™ system for unlimited driving potential
- Deep Well Impact Flip Socket Set includes ten sizes combined into five color-coded sockets plus two nested adapters
- Klein KNECT™ specialized square drive adapter compatible with Klein Tools pass through socket wrench and any 3/8-Inch square drive ratchet
- Nested adapters for dual drive (1/4-Inch hex flip socket shaft nest into 3/8-Inch square drive adapter)
- Compact, modular storage system with a clear lid is compatible with MODbox™ and stackable with other cases of its similar design

Part No.	Description	Includes
65618	8-Piece KNECT Flip-10 Heavy Duty Flip Impact Socket Set, SAE	Drive Size 1/4", 3/8"; Socket Size 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16



65239

KNECT™ FLIP-20 IMPACT SOCKET SET, SAE AND METRIC, 13-PIECE

- Multi-purpose adapter makes the sockets compatible with the Klein KNECT™ system for unlimited driving potential
- Deep Well Impact Flip Socket Set includes 20 SAE and metric sizes combined into 10 color-coded sockets plus two nested adapters and one extended shaft
- Six smaller sockets sizes 1/4-Inch to 9/16-Inch (8 to 14mm) are stackable on 650QSAL to quickly change socket sizes and reduce the number of tools needed
- Klein KNECT™ specialized square drive adapter compatible with Klein Tools pass through socket wrench (Cat. No. 65400) and any 3/8-Inch square drive ratchet
- Small parts storage tray inside the case to secure loose fasteners, washers and extra bits
- Compact, modular storage system with a clear lid is compatible with MODbox™ and stackable with other cases of its similar design

Part No.	Description	Includes
65239	13-Piece Flip-20 Impact Socket Set, SAE and Metric	Drive Size 1/4", 3/8": Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16": Case flip socket impact adapters, Case



65300

KNECT™ 1/4-INCH DRIVE IMPACT-RATED PASS THROUGH SOCKET SET, 32-PIECE

- Klein KNECT™ Small Pass Through Socket Set with 7 sockets, 21 screwdriver bits, extension, impact adapter, 1/4-Inch square adapter, and handle
- Pass through head for driving hex nuts on extended threaded rod
- Impact-rated sockets and screwdriver bits for the toughest driving applications
- 1/4-Inch Socket doubles as a standard 1/4-Inch bit holder
- 1/4-Inch Square adapter allows for use with traditional sockets
- Connects on the MODbox™ Case Adapter Side Rail Attachment for easily accessibility (Cat. No. 54875MB)

Part No.	Description	Includes
65300	32-Piece KNECT 1/4-Inch Drive Impact-Rated Pass Through Socket Set	Drive Size: 1/4"; Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"



33805

PROFLEX IMPACT SCREWDRIVER BIT AND SOCKET SET, 38-PIECE

- S2 Impact-Rated Steel torsion zone bit and socket set with 6 essential socket sizes and 29 unique bits
- Adjustable length Cushion-Grip™ screwdriver with quick-adjust push button
- Powerful magnet inside barrel to better retain bits, as well as pick-up and hold fasteners
- Small parts storage tray inside the case to secure loose fasteners, washers and extra bits
- Compact, modular storage system is compatible with MODbox™ and stackable with other cases of its similar design
- Clear lid allows you to easily see what is inside
- Durable, impact-resistant case featuring steel hinges, and a stay-shut latch

Part No.	Description	Overall Length (In.)	Includes
33805	38-Piece ProFlex Impact Screwdriver Bit and Socket Set	7	Nut Driver Sizes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"; Phillips Bits #0, #1, #2, #3; Slotted Bits 3/16", 1/4", 5/16"; Square Bits #1, #2, #3; Hex Bits 3/32", 1/8", 5/32", 3/16", 1/4", 2", 2.5", 3", 4", 5"; Combo Bits C1, C2; TORX® Bits T10, T15, T20, T25, T27, T30, T40; Other Bits 3/8" Square Impact Adapter


33801

PROFLEX IMPACT DRIVER BIT SET, 40-PIECE

- Impact Driver Bit Set with ProFlex torsional recoil system features energy absorbing technology to extend the life of the bit
- S2 impact-rated steel bits built for heavy-duty applications
- Extended length 3.5-Inch #2 Phillips and #2 Square bits to easily access hard to reach fasteners
- Compact, modular storage system is compatible with MODbox™ and stackable with other cases of similar design
- Set includes 3-Inch bit extension with strong magnet to keep bits in place
- Variety of Phillips, Slotted, Square and TORX® bits to drive the most common fasteners on the job
- 1/4-Inch and 5/16-Inch magnetic power nut drivers

KLEIN TOOLS

Part No.	Description	Overall Length (In.)	Includes
33801	40-Piece ProFlex Impact Driver Bit Set	7	Nut Driver Sizes 1/4"; 5/16"; Phillips Bits #1, #2, #3; Slotted Bits 3/16", 1/4", 5/16"; Square Bits #1, #2, #3; TORX® Bits T15, T20, T25, T27, T30; Other Bits 3/8" Square Impact Adapter


32787

PRECISION RATCHET AND DRIVER SYSTEM, 64-PIECE

- Precision Driver Set with 33 precision bits, 16 standard bits, 11 nut drivers, bit adapter, adjustable screwdriver, and micro-ratchet inside our MODbox™ System Case for multi-faceted applications
- Low-profile micro-ratchet design to provide maximum access and extra torque
- Magnetic, adjustable 1/4-Inch and 3.5 mm bit holders for standard and precision bits
- Modular case easily connects to other compatible Klein case sets for convenient organization and on-the-go carry
- Spin cap offers optimum and precise control
- Cushion-Grip™ handle for maximum torque and comfort
- Compact case houses all components and offers a storage area to stow fasteners and other bits along with your tools

KLEIN TOOLS

Part No.	Description	Includes
32787	64-Piece Precision Ratchet and Driver System	Compact Case, 60 Bits, Cushion-Grip™ Handle and Ratchet

SCALE


P250

PLATFORM

pelouze® A product of Pelstar, LLC.

Part No.	Graduations Range (Lbs.)	Description
P250	0 to 250 x 1	18 Ga Steel Platform

SPILL RESPONSE


N3125

SHOP TOWEL

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N3125	Shop Towels	10 Pc.


5RLF

BULK COTTON

MONARCH BRANDS

Part No.	Description	Pkg Qty
5RLF	Bulk Cotton Rag, Lint Free, Blue	5 lbs.



RT600D

VIPER WIPES

Viper Wipes are an ultra-strong dual textured hand towels that will clean almost anything. Use to remove dirt, grease, oil, grime, tar, mastic, caulking and more! Towels absorb soils leaving your hands clean. These convenient wipe and go towels are used by professional mechanics on the road, on the roof and in the shop. No water rinse is required. Viper Wipes contain Lanolin, Aloe, and Vitamin E for soothing relief on hands covered with nicks, scraps, and minor cuts.

REFRIGERATION TECHNOLOGIES

Part No.	Description	Pkg Qty
RT600D	Viper wipes, waterless hand wipes	80 count

SPILL RESPONSE



6000

WIPER

WYPALL® L40 Wipers in POP-UP® Box 6000 (05790)

- Ideal for routine industrial cleaning and maintenance
- Removes soils and liquids from face and hands
- One-at-a-time dispensing for users on the go
- Teri® X60 TERI® Reinforced Wipers, POP-UP® Box, (34790)
- Brings the absorbing power of HYDROKNIT® technology to a lighter weight wiper. Reinforced for extra scrubbing and cleaning power. Tough enough for big jobs -- soft enough for face and hands. White color

DIVERSITECH

Part No.	Description	Pkg Qty
6000	Wypall®, L40 Wiper, White	100/pack
34790	Teri®, X60 Wiper, Reinforced, White	126/pack



31930700

HEAVY DUTY CLEAN-UP BAG

3 Mil, 7 bushel capacity

Part No.	Description	Pkg Qty
31930700	Heavy duty contractor bags, 3 mil	20/Bags


GS10

OIL ABSORBENT

- Contractor caliber absorbent of HVAC oils, lubricants, treatments, cleaners and descalers
- Reusable on different types of spills
- Works faster on more types of liquid spills
- Reduced handling, storage and disposal costs
- Use less water and liquid cleaners on spills
- Safe for use on all roof coatings
- Changes hazmat liquids into dry solid waste
- Gritty, non-slip material for floor spills
- Clean and dust-free
- Reduces flammability and ignitability
- Use inside, outside in wet or dry conditions

GREENSORB

Part No.	Container Size	Description
GS10	10 Lb bucket	Oil Absorbant, Reusable


51425

KLEANERS® HAND CLEANING TOWELS

Klein Kleaners Hand Cleaning Towels make it easy to keep your hands clean on the jobsite. These towels quickly loosen, dissolve and absorb dirt and grease without needing to rinse your hands. The natural solvent is more gentle on the skin than petroleum-based hand cleaners.

- Simple and convenient pre-moistened towels
- Powerful, yet gentle pumice-like cleaning action
- Quickly loosens, dissolves, and absorbs dirt and grease
- Features a natural citrus solvent that's gentler than petroleum-based hand cleaners

KLEIN TOOLS

Part No.	Description	Pkg Qty
51425*	Hand Cleaning Towels - Towel Size 9" x 12"	72 count


CL-BAR04

TERRY TOWELS

Part No.	Description	Pkg Qty
CL-BAR04	Terry Towels - white	3 lb box
CLTW4R	Terry Towels - "Bar" - white	8 lb bundle

MIRROR


78100

INSPECTION MIRRORS

Telescoping and stainless telescoping inspection mirrors.

YELLOW JACKET

Part No.	Size	Description
78100*	3 3/4" round	Telescoping Mirror
78098-REC*	1 1/4" round	Telescoping Mirror w/ Pocket Clip & insulated head
78101*	3 3/4" rectangular	Telescoping Mirror
78104*	1" x 2" oval	Telescoping Mirror w/ Pocket Clip & insulated head

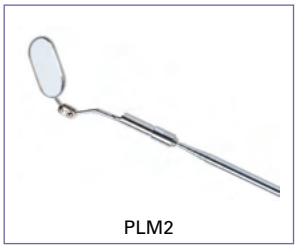
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

INSPECTION


NUC20

Part No.	Size	Description
NUC20*	2 1/4 round	Telescoping Round Mirror
NUK20*	2 1/8" Rectangular	Telescoping Rectangular Mirror
NUC2H*	2 1/4 round	Refill Head for NUC20
NUK2H*	2 1/8" Rectangular	Refill Head for NUK20

LED INSPECTION


PLM2

The PLM2 pocket extension LED flashlight comes with a mirror attachment for inspecting nameplates, hardware, or anything else hidden around the corner or in the dark. It extends to over two and a half feet to give you easy access in close quarters.

- Telescopes between 6 1/2" and 30 1/2".
- Bright white LED to light the darkest of spaces.
- Mirror slides off when all you need is a light.
- Adjustable tension pivot; omnidirectional ball joints for precise mirror positioning.
- 2" x 1" mirror

Part No.	Size	Description
PLM2	2" oval	LED Flashlight, Inspection Mirror

NON-INVERTED IMAGE INSPECTION MIRROR


RSIM1

This mirror presents a true Non-Inverted image, making it a must to read those hard to read serial numbers. Extends to 16".

Part No.	Description
RSIM1	Rite-Site Non-Inverted Image Inspection Mirror
EMF2	Extendable Magnetic (Includes Inspection Mirror & Pocket Clip)

LIGHT

SLYDE KING 2K FLASHLIGHT


NEBWLT1003

Rechargeable, waterproof (IP67) and extremely versatile, the SLYDE KING 2K features a 2,000 lumen flashlight with 4x zoom, and a 500 lumen C•O•B work light. Each light mode is dimmable with programmable memory. The 2K also has an ergonomic rubberised grip and powerful magnetic base.

Part No.	Includes	Color	Power
NEBWLT1003*	SLYDE KING 2K, Li-ion 18650 rechargeable battery, USB-C to USB charging cable, Product manual	Black	Lithium-Ion

MYCRO 400 RECHARGEABLE HEADLAMP


NEBHLP0011

The MYCRO is a rechargeable head lamp and cap light that includes an adjustable head strap. Small enough to fit in the palm of your hand, this powerful light features an impressive 400 lumen Turbo Mode.

Part No.	Includes	Color	Power
NEBHLP0011*	MYCRO® 400 Headlamp, Adjustable head strap, Li-ion rechargeable battery, Micro-USB to USB charging cable, Product manual	Black	Lithium-Ion

REDLINE X FLASHLIGHT RECHARGEABLE


NEBFLT0008

The Redline X Flashlight Rechargeable: Illuminate Your World. This powerful flashlight is a must-have for any outdoor enthusiast or emergency preparedness kit. Whether you're camping, hiking, or facing a power outage, the Redline X Flashlight will be your reliable source of light. With its rechargeable battery, you can say goodbye to constantly buying and replacing batteries. The durable construction ensures it can withstand the toughest conditions, while the adjustable zoom allows you to focus the beam for precise lighting. Don't let darkness hold you back - light up your path with the Redline X Flashlight Rechargeable.

Part No.	Includes	Color	Power
NEBFLT0008*	Redline X flashlight, Li-ion 18650 rechargeable battery, Micro-USB to USB charging cable, Product manual	Black	Lithium-Ion

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIGHT



NEBFLT0003

REDLINE FLEX FLASHLIGHT

The Redline Flex Flashlight Black 450 Lumens is a versatile and powerful tool that will illuminate your path in any situation. Whether you're camping, hiking, or working in low-light conditions, this flashlight is a reliable companion. With its 450 lumens, it provides a bright and focused beam, ensuring maximum visibility. The Redline Flex is designed with flexibility in mind, allowing you to easily adjust the beam angle to suit your needs. Its sleek black design adds a touch of sophistication, while the NEBO brand guarantees durability and quality. Don't let darkness hold you back - light up your world with the Redline Flex Flashlight. NEBO

Part No.	Includes	Color	Power
NEBFLT0003*	Redline Flex flashlight, Li-ion 14500 rechargeable battery, Micro-USB to USB charging cable, Product manual	Black	Lithium-Ion/ AA



NEBPOC0004

INSPECTOR™ POWERFUL PEN SIZED POCKET INSPECTION LIGHT

The INSPECTOR is an innovative, powerful pocket light that outputs 180 lumens, with 3 light modes and 3x adjustable zoom that provide the perfect amount of light for any situation. The INSPECTOR is also waterproof (IP67) and features a removable steel clip and Soft-Touch Technology, which provides momentary operation when the light is off, with the slight touch of the button. NEBO

Part No.	Includes	Color	Power
NEBPOC0004*	INSPECTOR flashlight, NEBO AAA batteries, Product manual	Black	AAA



NEBPOC0005

INSPECTOR RC PEN LIGHT RECHARGEABLE AND WATERPROOF

The NEBO INSPECTOR™ RC is a powerful 360 lumen rechargeable, waterproof (IP67) penlight. The INSPECTOR™ RC features FLEX-POWER and is equipped with a removable steel clip, 4x zoom and 3 light modes (high, low, strobe) and Soft-Touch Technology, which provides momentary operation when the light is off, with the slight touch of the button. NEBO

Part No.	Includes	Color	Power
NEBPOC0005*	INSPECTOR™ RC, Li-ion 10850 rechargeable battery, Micro-USB to USB charging cable, Product manual	Black	Lithium-Ion/ AAA



NEBHLP1005

MYCRO 500+ RECHARGEABLE HEADLAMP

Hands-free performance that's head and shoulders above the competition, literally. The MYCRO® 500+ delivers 500 lumens of brightness and puts the light you need right where you need it. Wear it on your hat with the detachable cap clip, or use the adjustable head strap. Either way, this rechargeable wonder frees up your hands and comfortably lights the way to more productivity when it's dark out. NEBO

Part No.	Includes	Color	Power
NEBHLP1005*	MYCRO® 500+ Headlamp, Adjustable head strap, Li-ion rechargeable battery (internal), USB-C to USB charging cable, Product manual	Grey	Lithium-Ion

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



NEBHLP0007

EINSTEIN 1000 FLEX HEADLAMP

The EINSTEIN® 1000 FLEX by NEBO is a low-profile, compact, 1000 lumen, USB-C rechargeable headlamp with 5 light modes. The included rechargeable battery will power the light for up to 18 hours of use.

Part No.	Includes	Color	Power
NEBHLP0007*	EINSTEIN 1000 FLEX headlamp; Li-ion 18650 rechargeable battery; USB-C to USB charging cable; Product manual	Black	Lithium



NEBFLT1068

DAVINCI 18000 MAG DIAL FLASHLIGHT

The DAVINCI® 18000 is the pinnacle product to NEBO's DAVINCI® rechargeable flashlight series and is the brightest to date with 18000 lumens making it perfect for camping, hiking, hunting, fishing or other outdoor activities. It is a rugged, yet refined design and includes our latest smart technology features like Optimized COB, Smart Power Control (SPC), Smart Temperature Control (STC), Direct-to-Low Startup and our proprietary Mag Dial to quickly and easily select and power up in the light mode of your choice.

As one of the brightest, and most technologically advanced handheld rechargeable flashlights on the market today, the uses for this flashlight are virtually limitless. Flood the night with light out to 830 feet!

Part No.	Includes	Color	Power
NEBFLT1068*	Davinci 18000 Mag Dial Flashlight; Lanyard; USB-C Charging Cable	Black	Lithium



NEBFLT0026

LUXTREME MZ60 BLUELINE FLASHLIGHT

Luxtreme MZ60 Blueline Edition – a game-changing 2-in-1 flashlight and spotlight designed to redefine your lighting experience. Boasting 1000 lumens for close-range illumination and an impressive half-mile+ beam distance for long-range spotlight performance, this flashlight is perfect for enthusiasts, outdoorsmen, and professionals like law enforcement or search and rescue teams. With 5 adaptable light modes and a 16x adjustable zoom, it's equipped to handle any situation near or far. The rechargeable design, featuring a bidirectional USB-C port allows it to work as a power bank, adding extra convenience. With an IP67 waterproof rating, it excels in all conditions from heavy rain and can even be submerged. Upgrade to the Luxtreme MZ60 Blueline Edition for unmatched versatility in one compact design.

Part No.	Includes	Color	Power
NEBFLT0026*	Lithium-ion Battery; USB-A to USB-C Charging Cable; Lanyard	Black	Lithium



NEBFLT1033

BIG LARRY 600 RECHARGEABLE WORK LIGHT

The Big Larry 600 is the light you reach for when a basic flashlight isn't up to the task. This legendary 3-in-1 flashlight, work light and task light set the bar with its' innovative design, and this is the first rechargeable version. The versatility of this light helps you get more done with less tools thanks to its' 7 light modes and upgraded 600 lumen work light, 220 lumen flashlight and 40 lumen red task light. With useful features like variable dimming, Direct-to-Red, Power Memory Recall, and a strong magnetic base you have a light that works for you and your unique lighting needs. The aircraft-grade aluminum construction is impact- resistant, so it is designed to last and it now boasts an IPX7 waterproof rating. It can be carried in a pocket or on a belt with the sturdy steel belt clip. When not in use, you can attach it to any metal surfaced with the powerful magnetic base. This latest version also includes a rubber grip for additional drop protection. USB-C rechargeable and it includes a USB-A to USB-C charging cable.

Part No.	Includes	Color	Power
NEBFLT1033*	Work Light	Grey/Black	Li-Ion rechargeable

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIGHT


NEBFLT1042

SLIM MINI RECHARGEABLE POCKET LIGHT

The SLIM® Mini Rechargeable Pocket Light sets the bar on what compact LED flashlights should be. Designed to easily slide in and out of a pocket, the ultra-thin profile body makes it one of the easiest flashlights to carry. It is USB-C rechargeable, has 2 light modes and offers up to 250 lumens and a max 10 hour run time. The SLIM Mini LED flashlight is sure to find a home in your pocket and every day carry collection. NEBO

Part No.	Includes	Color	Power
NEBFLT1042*	SLIM MINI flashlight; USB-C to USB-A charging cable; Product manual	Gray	Lithium


NEBFLT1007

12K FLASHLIGHT

This amazing flashlight is our brightest ever, and has 5 light modes, so you can choose the perfect setting for any situation. The NEBO 12K blasts up to 12,000 lumens of bright light up to 721 feet away. It also has an impressive run time of up to 12 hours on low mode, so you can be sure it will last when you need it most. Plus, the IP67 waterproof rating means you don't have to worry about using it in inclement weather. The 12K is also tough as nails and is made from aircraft grad aluminum, making it one of the most durable and impact-resistant LED flashlights on the market today.

Finally, one of the hallmarks of the 12K is its versatility. Rounding out the amazing features on this flashlight is the 2x adjustable zoom, removable lanyard for easy carry, plus, the 12K doubles as a power bank for any of your USB rechargable devices. All of this makes the NEBO 12K a perfect choice as a camping light, hunting light, EDC flashlight, and more. NEBO

Part No.	Includes	Color	Power
NEBFLT1007*	12K flashlight; Rechargeable battery (2x 26650's in single sleeve); USB-C to USB charging cable; Product manual	Black	Lithium


NEBPOC1000

INSPECTOR 500+ FLEX PEN LIGHT

he INSPECTOR™ 500+ is a powerful 500 lumen, rechargeable, waterproof (IPX7) penlight and expandable area light. The INSPECTOR™ 500+ is equipped with a powerful magnetic base, steel clip, 4 light modes and features Flex-Power Technology, which allows the light to be powered by rechargeable or AAA batteries. NEBO

Part No.	Includes	Color	Pow-er
NEBPOC1000*	INSPECTOR™ 500+ pen light Li-ion 10850 rechargeable battery; Micro-USB to USB charging cable; Product manual	Black	AAA


6713

INSPECTOR™ POWERFUL PEN SIZED POCKET INSPECTION LIGHT

The INSPECTOR is an innovative, powerful pocket light that outputs 180 lumens, with 3 light modes and 3x adjustable zoom that provide the perfect amount of light for any situation. The INSPECTOR is also waterproof (IP67) and features a removable steel clip and Soft-Touch Technology, which provides momentary operation when the light is off, with the slight touch of the button. NEBO

Part No.	Includes	Color	Power
6713	INSPECTOR flashlight; 2 x NEBO AAA batteries; Product manual	Black	AAA


56412

LED WORKLIGHT

- Rechargeable Flashlight with integrated work light is a compact, powerful every day light offering 5 different light modes
- Features two Flashlight modes: High 500 lumens for 7 hours, Low 315 lumens for 10 hours; three Work Light modes: High-375 lumens for 10 hours, Medium- 235 lumens for 11 hours, and ECO- 35 lumens for 30 hours
- Magnetic end cap and side-barrel LEDs for a hands-free work light
- Durable flashlight rated for a 6-Foot drop and is IP66 water-resistant and dustproof

KLEIN TOOLS

Part No.	Includes	Color	Power
56412	Rechargeable Flashlight, USB-C Charging Cable, Removable Pocket Clip	Orange/ Black	Lithium-Ion

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AL6V

BATTERY

- Industrial alkaline battery

Part No.	Description
AL6V	EN529 6V Industrial Alkaline Lantern Spring Top - 6/pack
AL9V	EN22 9V Industrial Alkaline - 6/pack
ALAA	EN91 AA Industrial Alkaline Battery
ALAAA	EN92 AAA Industrial Alkaline Battery
ALC	EN93 C Industrial Alkaline Battery
ALD	EN95 D Industrial Alkaline Battery



CR1632

LITHIUM BATTERY

Part No.	Description
CR1632	ECR1632 3V Lithium Coin Battery
CR2032	ECR2032 3V Lithium Coin Battery
CR2450	ECR2450 3V Lithium Coin Battery
ECR2025BP	ECR2025 3V Lithium Coin Battery
EL123APBP	CR123A 3V Lithium Battery
L91SBP-4	L91SBP AA Lithium Battery - 4/pack


AMP1LBBK

PRINCETON TEC LED FLASHLIGHT

- Batteries included

Part No.	Description
AMP1LBBK	45 Lumens, w/ Bottle Opener, Waterproof Housing
LG1BK	210 Lumens, Waterproof Housing


DWL-1

DUAL WORK LIGHT

- Powerful LED flashlight offers 250 lumens of intense white light
- COB worklight outputs 190 lumens
- Extend body to access COB worklight
- 60 meters viewing distances with 200 lumen setting
- Powerful magnetic base
- Side-positioned ON/OFF button with Soft Touch Technology
- Anodized aircraft grade aluminum
- Water and Impact resistant
- Four AAA Batteries Included

Part No.	Description	Color	Power
DWL-1	LED Dual-Purpose Flashlight - 250 lumen	Blue	AAA



HYBBK

PRINCETON TEC HEADLAMP

- Batteries Included

Part No.	Description	Color
HYBBK	3 LEDs w/ 2 Mode Flood Light, and 2 Mode 100 Lumen Spot Light	Black
HYBUVBK	3 UV LEDs to Highlight Leak Detection Dyes, and 2 Mode 100 Lumen White LED Spot Light	Black


MPLS1HAT

PRINCETON TEC CLIP-ON FLASHLIGHT

Part No.	Description	Color
MPLS1HAT	Hat Visor Clip-On LED Flashlight w/ Flex Neck, 10 Lumens	Black
IMP1BK	LED Flashlight w/ Carabiner and Hat Clip, 10 Lumens	Black

LIGHT


TKIL10

THE INSPECTOR PORTABLE LIGHT

- Lightweight
- Totally portable
- Two ligh modes
- Rotating and magnetic base
- Dimmable power settings
- 6 hours of operating time (full power)

Part No.	Description	Color
TKIL10	The Inspector portable LED light, 2-mode, 250 lumens	Red/Black


56040

RECHARGEABLE FOCUS FLASHLIGHT WITH LASER

- The rechargeable focus flashlight with class IIIa red laser pinpoints out-of-reach objects
- LED light's twist focus bezel concentrates the light beam where it's needed
- Strong magnetic end cap for hands-free use
- A 12-hour all day runtime on low of 125 lumens; bright 350 lumens on high with a 6-hour runtime
- Rated a durable 10-Foot (3 m) drop test, IP54 water- and dust-resistant
- Battery gauge notifies when the battery is low; rechargeable via micro-USB cable (included)
- Removable pocket clip with an integrated lanyard hole
- When light is on for 5 seconds, the next click is off

Part No.	Includes	Color	Power
56040	Rechargeable Flashlight, Micro-USB Charging Cable	Orange/ Black	Lithium-Ion


56048

HEADLAMP

- Rechargeable Headlamp is 3 lights in 1: a focused, long-range white spotlight, wide-casting floodlight, and low-intensity red LEDs
- Features bright white LEDs in 2 settings: Spotlight (Boost: 800 lm for 4 hrs, High: 600 lm for 8 hrs, Low: 300 lm for 10 hrs, Strobe: 100 lm for 40 hrs) and Floodlight (High: 500 lm for 5 hrs, Medium: 250 lm for 10 hrs, ECO: 30 lm for 27 hrs)
- Low intensity red LEDs for non-blinding night vision (2.5 lumens for 56 hours) also feature a long-lasting red strobe (2.5 lumens for 160 hours)
- Light can be removed from bracket for recharging or attached directly to Klein® hard hats (equipped with bracket system)
- Silicone infused, adjustable fabric strap features a convenient marker and pencil holder

Magnet allows for use as hands-free work light while the slim profile also pivots allowing up to a 64-Degree lighting angle

Part No.	Includes	Color	Power
56048	Rechargeable Lamp, Bracket, Fabric Strap, USB Charging Cord; Instruction Manual	Black	Lithium-Ion/3.7V
56414	Rechargeable Lamp, Bracket, Fabric Strap, Pencil/Marker Holder, USB-C Charging Cord; Instruction Manual	Black	Lithium-Polymer


56403

RECHARGEABLE PERSONAL WORKLIGHT

- Versatile Rechargeable Personal Worklight stands, hooks, hangs, and mounts magnetically
- LED Light modes are High: 460 Lumens for 9 hours, and Low: 175 Lumens for 16 hours
- Able to charge smartphones and other small devices via USB-A
- Infinite light direction; head rotates 360 degrees while the kickstand rotates 270 degrees
- Kickstand features strong magnets for mounting, three nail notches, and a built-in carabiner for easy hanging

Part No.	Includes	Color	Power
56403	Rechargeable Worklight, Micro-USB Cord, DC 5V, 1.3A	Orange/ Black	Lithium-Ion 18650

LAMP AND EXTENSION CORD



N5230

Part No.	Description	Color
N5230*	Extension Cord (3 Outlets), 25'	Orange
N5229*	Extension Cord, 50', 15A	Red

MOUNTED POWER STRIP



29601

lein Tools' rugged PowerBox uses powerful magnets to easily mount anywhere in the metal job box or other magnetic surface, and includes built-in hanging holes for fixed mounting locations. Easily distribute power across your job box with 5-Foot durable power cord. Integrated LED lighting illuminates the inside of any dark job box to quickly find gear. Besides the four surge protected 120V outlets, the two USB-A and one 45W USB-C (PD capable) ports allow for convenient charging of personal devices including phones, tablets, and laptops.

Part No.	Description	Color
29601	Powerbox 1, Magnetic Mounted Power Strip with Integrated LED Lights - 4 x 120V AC Outlets - 2 x USB-A Ports - 1 PD Capable USB-C Port	Orange

BRUSH

TUBE CLEANING BRUSH, BLUE NYLON

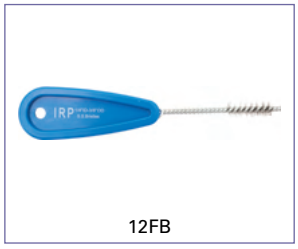


GTC211-1/4

Blue Nylon Brushes with exclusive X filament technology are Goodway's most popular tube cleaning brushes. It is recommended for removing soft deposits (mud, algae, etc.) in straight, ferrous, and nonferrous tubes. Tube-cleaning nylon brushes are made from the highest quality components with strict engineering tolerances designed to deliver the desired results. Brush should be equal to or 1/16" (1.6mm) smaller than tube I.D. Available for tube sizes 1/4"-1" (6.4-25.4mm) I.D.

Part No.	Description	Brush Diameter (In.)
GTC211-1/4	Tube Cleaning Brush	1/4
GTC211-15/16	Tube Cleaning Brush	15/16
GTC211-3/8	Tube Cleaning Brush	3/8
GTC211-7/16	Tube Cleaning Brush	7/16
GTC211-1/2	Tube Cleaning Brush	1/2
GTC211-9/16	Tube Cleaning Brush	9/16
GTC211-5/8	Tube Cleaning Brush	5/8
GTC211-11/16	Tube Cleaning Brush	11/16
GTC211-3/4	Tube Cleaning Brush	3/4
GTC211-13/16	Tube Cleaning Brush	13/16
GTC211-7/8	Tube Cleaning Brush	7/8
GTC211-5/16	Tube Cleaning Brush	5/16
GTC211-1	Tube Cleaning Brush	1

FITTING



12FB

- Stainless steel wire brush
- The highest quality fitting brush, double spiral 4-ply wire construction
- Solid plastic hand-fitting handle with convenient hole for hanging

Part No.	Description	Brush Diameter (In.)
12FB	Fitting brush, stainless steel	1/2
14FB	Fitting brush, stainless steel	1/4
34FB	Fitting brush, stainless steel	3/4
38FB	Fitting brush, stainless steel	3/8
58FB	Fitting brush, stainless steel	5/8
78FB	Fitting brush, stainless steel	7/8
118FB	Fitting brush, stainless steel	1 1/8
138FB	Fitting brush, stainless steel	1 3/8
158FB	Fitting brush, stainless steel	1 5/8
218FB	Fitting brush, stainless steel	2 1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BRUSH


B501

CHIP

100% pure bristle, wood handle. Poly sleeve over bristles. Excellent for applying duct adhesive.

IRP International Refrigeration Products

Part No.	Description	Brush Diameter (In.)	Material
B501	Chip brush	1	Wood
B502	Chip brush	1.5	Wood
B503B	Chip brush	2	Wood
B504B	Chip brush	2.5	Wood
B505	Chip brush	3	Wood


00440

RADIATOR/FURNACE

- Single spiral / single stem
- Brush length: 7”

SCHAEFER BRUSH MANUFACTURING

Part No.	Description	Brush Diameter (In.)	Brush Length (In.)	Material
00440	Radiator brush	1/2 to 1	7	Black natural bristle
76524	Radiator brush	2 1/2	7	Horse hair/ polyester bristle
76220	Furnace brush	2 1/8	7	Horse hair/ polyester bristle


N2310

SCHAEFER BRUSH MANUFACTURING

Part No.	Description
N2310	Curved Handle Wire Brush - 3 x 19
N2311	Shoe Handle Wire Brush - 4 x 16
N2411	2” Flat Varnish Brush
N2421	Parts Cleaning Brush


B4W

WIRE

Wire brush for cleaning all metals.

IRP International Refrigeration Products

Part No.	Description
B4W	Welders Brush, Stainless Steel Bristles


B26FW

WHISK

A plastic handled whisk for cleaning condenser and evaporator fins.

IRP International Refrigeration Products

Part No.	Description
B26FW	Fin whisk, plastic handle

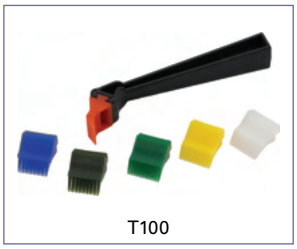

T200

FIN TOOL, METAL

All metal long lasting fin straightener. The heavy duty spring wire bristles automatically adjust to ALL fin spacings. Tension adjustment band is featured to allow maximum rigidity and ease of operation.

IRP International Refrigeration Products

Part No.	Description
T200	Fin tool, metal, adjusts to all fin spacings
T300	Fin tool, metal, heavy duty handle


T100

FIN TOOL, MULTI HEAD

Each nylon head slides into the master handle and tightens in place. Each head is engraved with its own size and is color coded for fast identification. The heads are angled so that when inserted in the handle, the hand is a safe distance from the sharp fins. Heads may also be reversed in the handle, so that combing with an upward stroke (recommended method) may be done easily.

DIVERSITECH

Part No.	Fins/Inch	Description
T100	8,9,10,11,12,14	Fin tool, multi head kit, nylon, color coded


FST

FIN STRAIGHTENER

Both tools feature one-piece adjustable combs. The resilient nylon comb material will not damage the soft aluminum fins of condenser or evaporator units.

Malco

Part No.	Fins/Inch	Description
FST	8, 10, 12, 14	Fin straightener, 1 piece pinwheel combs
FST2	16, 18, 20, 22	Fin straightener, 1 piece pinwheel combs


FC0810

FIN COMB

- Straightens and cleans evaporator and condenser fins
- Fits in your tool box for easy access and prevention of loss

Supco

Part No.	Fins/Inch	Description
FC0810	8 & 10	Fin comb, orange
FC0915	9 & 15	Fin comb, yellow
FC1113	11 & 13	Fin comb, blue
FC1214	12 & 14	Fin comb, green
FC1617	16 & 17	Fin comb, lime
FC1820	18 & 20	Fin comb, red
FC2224	21/22 & 23/24	Fin comb, purple
FCR6	Set of 6, FC0810 - FC1820	Fin comb set - FC0810, FC0915, FC1113, FC1214, FC1617, FC1820


437BN14

CONDENSER TUBE, NYLON

- Nylon bristles
- Single spiral/single stem construction recommended for cleaning all tubes where deposits are light.
- Female couplings: 12-24 threads

IRP International Refrigeration Products

Part No.	Brush Diameter (In.)	Brush Length (In.)	Material
437BN14	1/4	3	Nylon
437BN38	3/8	4	Nylon
437BN118	1 1/8	4	Nylon


43604

CONDENSER TUBE, BRASS

- Brass bristles
- Single spiral/double stem construction recommended for brass or copper tubes
- Brush length: 4”
- Female couplings: 12-24 threads

SCHAEFER BRUSH MANUFACTURING

Part No.	Brush Diameter (In.)	Brush Length (In.)	Material
43604	3/8	4	Brass
43622	3/4	4	Brass


24H

CONDENSER BRUSH ACCESSORIES

- Accessories for use with 436, 437 Series condenser tube brushes

SCHAEFER BRUSH MANUFACTURING

Part No.	Description	Material
24H	Rod, 24”, 12-24 Thread, Male x Female, for 436, 437 Series, 3/8 - 1 1/8	Aluminum
36H	Rod, 36”, 12-24 Thread, Male x Female, for 436, 437 Series; 3/8 - 1 1/8	Aluminum
14H	Rod, 48”, Formed Handle, 8-32 Thread, Male, for 437BN14	Steel
13001	T Handle, 12 - 24 Screw, for 24H, 36H	Aluminum


AB

ACID

- Select horsehair bristles pressed securely in tin handles
- Brush width: 3/8”
- Handle length: 5”

IRP International Refrigeration Products

Part No.	Description
AB	Acid Brush

ROPE


N120

High strength polyester, braided, low stretch

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Diameter (In.)	Cord Length (Ft.)	Color
N120	0.50	50	White
N380	0.50	50	White

LUBRICATION


BUTYLGR

BUTYL CAULK

An inexpensive sealant used as perimeter seal, or capping around windows, doors, masonry or metal to metal applications. Used extensively in refrigerated cases, walk-in cooler doors by the fast food and convenience store market. Available in White and Gray.

ENERGY SAVING PRODUCTS

Part No.	Description
BUTYLGR	Butyl Caulk Gray 100% Industrial Grade
BUTYLWH	Butyl Caulk White 100% Industrial Grade


VULKEMGR

VULKEM CAULK

Vulkem 116 is a textured, single-component, moisture-curing, gun-grade polyurethane sealant. Vulkem 116 is an excellent general-purpose sealant designed for use on poured and precast concrete, masonry work, window and door perimeters, and similar types of construction joints. Available in Gray and White

ENERGY SAVING PRODUCTS

Part No.	Description
VULKEMGR	Grey Textured, Single-Component Polyurethane Sealant
VULKEMWH	White Textured, Single-Component Polyurethane Sealant


N3132

GREASE GUN

- Cartridge not included

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
N3132	Mini Grease Gun
N3100	Grease Gun, 14 Oz. Cartridge


N1212

GREASE GUN ACCESSORIES

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
N1212	12" Grease Hose
N1218	18" Grease Hose
N0531	Coupler, 1/8" NPT
N3124	14 Oz. Grease Cartridge
N31273	3 Oz. Mini Grease Cartridge, Pkg. 3


N6312

GREASE FITTING

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
N6312	8 Pc., 1/8" NPT Straight
N6310	29 Pc. Assortment - 5 1/4" - 28 NPT 90°

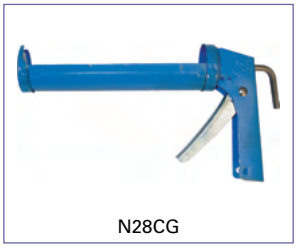

GFK1

GREASE FITTING KIT

Eliminates need for cover removal and equipment disassembly. Furnished complete with 10' of high pressure tubing and all required fittings for installation.

Supco

Part No.	Description
GFK1	Grease fitting kit, w/10' tubing


N28CG

CAULK GUN

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
N28CG	Caulking Gun


NFP

MAX FLO OIL PUMP

With this oil hand pump you can smoothly pump oil into the compressor on the down stroke while the system is under pressure. This makes pumping easier with a positive stroke.

- Automatic bleed valve with no moving parts equalizes pressure inside and outside of the oil container
- Pumps against 200 psi pressure
- Comfort-grip rubber handle
- Compatible with all oil types (synthetic-mineral-polyolester)
- Fits all 1, 2 1/2 and 5 gallon containers

Part No.	Description
NFP	Max Flo Oil Pump
NFP250MAX	250 Psi Oil Pump Max Ultimate


77940

COMBINATION OIL PUMP

- Pumps 2.6 ounces per stroke
- Pumps against 250 psi pressure
- Universal stopper automatically adjusts to all standard openings in 1, 2 1/2 and 5 gallon oil containers
- Suction transfer hose and fittings included. Connects to bottom of unit to pump oil from equipment quickly and efficiently
- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils

Part No.	Description
77940*	Container Oil Pump


77930

OIL PUMP

- Pumps 3.8 ounces per stroke
- Foot stand base provides support and leverage
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently
- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils
- Will pump against 250 psi pressure
- 77939: optional 3/8" drain hose, 2' long

Part No.	Description
77930*	Foot Stand Hand Oil Pump

SHEET METAL TOOL


MB48

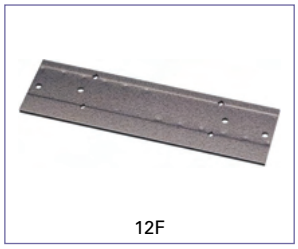
MINI BRAKE

Make big or small fabrications on the job with this lightweight and portable tool! The versatile Mini Brake produces bends up to 135 degrees in sheet metals, including aluminum, copper and 22-gauge galvanized steel. The brake's compact size can accommodate sheet metal stock up to 4-feet wide and as small as 4 inch square, in any length, because there is no fixed throat depth to contend with.

Features

- Bends narrow roof-flashing strips
- Ideal for fabricating plenums or large transitions at the job site
- Dual-direction, cam-over style keep anvil secure in any position
- Optional Leg Kit

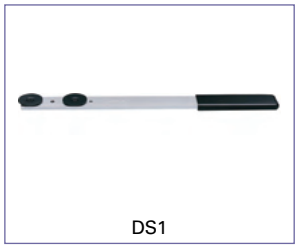
Part No.	Description
MB48	Portable mini break for sheet metal, 135° bends 22 gauge capacity
MBL	Leg Set with Bases and Fasteners


12F

FOLDING TOOL

Folding seams are formed from two steel halves, permanently joined together. Handy sight holes assure proper depth alignment.

Part No.	Description
12F	Folding tool, 12" L, 3/8", 1" fold depths
18F	Folding tool, 18" L, 3/8", 1" fold depths
24F	Folding tool, 24" L, 3/8", 1" fold depths


DS1

DUCT STRETCHER

Use the duct stretcher to hold duct in place with one hand while slipping drive cleat in place with other hand.

Part No.	Description
DS1	Duct Stretcher, Straight 16"
DS2	Duct Stretcher, Offset 16"
DS1C[1]	Replacement Wheels, Nuts, Screws (DS1, DS2, DS3)

[1] 2 ea.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SHEET METAL TOOL


M12N

ALUMINUM HANDLE SNIP

- Cuts straight, mild curves, and multiple layers
- Cuts to 24 ga. metal
- M12RB: Replacement blade for M12

Part No.	Description	Overall Length (In.)
M12N	Andy Aluminum Handled Snips	12
M14N	Andy Aluminum Handled Snips	14


MC12N

ALUMINUM HANDLE COMBINATION

Versatile for cutting sheet metal stock, including metal ductwork or aluminum, steel, and vinyl siding. For straight, left or right cuts to 6" diameter. A rugged cast aluminum frame is half the weight of comparable size forged steel snips. Separate inset blade components permit the use of cutlery grade high carbon steel that is heat treated and tempered to stay sharper longer. Blades are replaceable.

Part No.	Description	Overall Length (In.)
MC12N	Andy Aluminum Handled combination Snips	12
MC14N	Andy Aluminum Handled combination Snips	14


M6P

AVIATION SNIP

Part No.	Description	Overall Length (In.)
M6P	Offset, Tradesman Aviation Left Cut	11.35
M7P	Offset, Tradesman Aviation Right Cut	11.35
M8P	Offset, Tradesman Aviation Straight Cut	11.35


1201R

AVIATION SNIP

Part No.	Description	Overall Length (In.)
1201R	Aviation snip with wire cutter, right/ straight	10
1200L-Klein	Aviation snip with wire cutter, left/straight	10
1202S	Aviation snip with wire cutter, straight/ wide curves	10


N1R

NOTCHER

Notcher makes a clean 30° V shaped cut in sheet metal.

Part No.	Description
N1R	Notcher, 30° V shape in sheet metal, 13/16" max throat depth
N2R	Notcher, 30° V shape in sheet metal, 1" max throat depth


RH4

HAMMER

One-piece forged, I-beam construction. Full-polished heads are corrosion-resistant. Hammer sections are indiviually hardened and tempered for strength and resiliency.

- Leather grip

Part No.	Description	Head Weight (Oz.)
RH4	Leather Gripped Riveting Hammer	12
RH4V	Vinyl Gripped Riveting Hammer	12
SH3	Leather Gripped Sheet Metal Setting Hammer	18
SH3V	Vinyl Gripped Sheet Metal Setting Hammer	12


S2R

HAND SEAMER

Part No.	Description
S2R	3 in. Hand Seamer
S3R	3 in. Offset Hand Seamer
S6R	6 in. Hand Seamer


SC3R

BLADE CRIMPER

Use the SC3R 3-Blade Crimper to downsize heavier stove pipe and round metal duct to create a male connection for joining sections. The tool's hardened steel construction features heavy-duty, compound head and handle linkage to make easy work of crimping up to 24 gauge (0.86 mm) galvanized steel. A handle closing stop maintains a consistent crimp profile for the life of the tool, and the steel handle frame stands up to abuse and will not collapse. Nickel plating resists elements.

The Malco SC3R Crimper also features ergonomic RedLine Handle technology. An Engineered handle opening compliments the natural power stroke of any user's hand and maximizes the powerful 7:1 mechanical advantage of compound-leverage head to handle linkage. Comfortable handle grip contours, a non-slip grip insert, spring handle actuation and a thumb-operated handle latch ensure a natural fit and feel for comfortable one hand operation anywhere on the job.

Part No.	Description
SC3R	Pipe Crimper, 3 Blades


C5R

PIPE CRIMPER

Equip yourself with only the best during HVAC installation with the C5R Malco 5 Blade Sheet Metal Crimper. The C5R creates long, shallow double crimps that replicates factory indentations. These longer shallower crimps result in a tighter fitting, more self supporting, leak proof connection. Made with nickel plating to help resist corrosion and hardened steel for greater strength and resistance to abuse.

The Malco 5 Blade Sheet Metal Crimper also features comfortable ergonomic RedLine Handle's. These handles offer non-slip handle grip contours, spring handle actuation, and a thumb operated handle latch. The engineered handle opening of the tool compliments the natural power stroke of any user's hand.

Part No.	Description
C5R	Pipe crimper, 5 blades


SL1R

SNAP LOCK PUNCH

Join sheet metal, duct and pipe sections economically. Punches raise a louvered shaped projection on metal edge for locking into rolled edge of sheet or piece to be joined.

Part No.	Description
SL1R	Snap lock punch, 3/8" throat depth


2DH

DUCT HOLDER

Two powerful clamps and four feet of 125 lb. tensile strength linked chain. Set holds duct in place, either between or under joists, until it is properly secured.

Part No.	Description
2DH	Pair of Clamps with Chain

DUCT BOARD TOOL

SERRATED DUCT KNIFE



DK06

KLEIN TOOLS

Part No.	Description	Color
DK06	Serrated Duct Knife	Black/Silver

DUCT KNIFE



48221927

The Milwaukee® Duct Knife is designed for optimal edge retention and durability. The stainless steel blade is engineered to stay sharper up to 5X longer when cutting flexible duct and insulation. The double edge blade allows for a wide range of applications. A full metal tang provides durability for tough cuts. Includes a durable sheath for easy carry and storage.

Milwaukee

Part No.	Description	Includes
48221927	Duct Knife	Knife and Sheath

DUCT KNIFE



DK6S

Use as an aid in fabricating fiberglass duct. Long life, double edge blade facilitates easy piercing for inside cuts. Double edge also ideal for tapping into and trimming flex duct. Made of heavy cutlery steel with comfortable hickory wood handle.

Malco

- Resharpenable

Part No.	Description	Color
DK6S	Duct Knife, Cushioned Grip, Serrated	Black/Red/Silver

HOLE CUTTER



KBHC

Supplied with standard double point utility knife blade for cutting 1" board. Cuts 4" to 20" diameter holes in fiberglass ductboard. Durable extruded aluminum frame and engineering grade molded plastic and nylon components.

Malco

Part No.	Description
KBHC	Replacement Blade for 1 1/2" Duct

SLED KNIFE

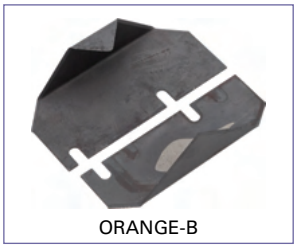


PURPLE

AMCRAFT INC. Manufacturers of Quality Products Since 1959

Part No.	Description	Color
PURPLE	Sled knife for 1" ductboard, male shiplap	Purple
ORANGE	Sled knife, modified corner shiplap	Orange
GREY	Sled knife for 1" ductboard, female shiplap	Grey
BLACK	Sled knife for 1-1/2" ductboard, female shiplap	Black
YELLOW	Sled knife for 1" ductboard, male shiplap	Yellow
BROWN	Sled knife, male/female combination	Brown
BLUE	Sled knife for 1" ductboard, end cut off	Blue
BLUE112	Sled knife for 1-1/2" ductboard, end cut off	Blue
RED	Sled knife for 1" ductboard, V-groove	Red
RED112	Sled knife for 1-1/2" ductboard, V-groove	Red

REPLACEMENT BLADE



ORANGE-B

AMCRAFT INC. Manufacturers of Quality Products Since 1959

Part No.	Description	Color
ORANGE-B	Replacement blade for sled knife 1"	Orange
GREY-B	Replacement blade for sled knife 1"	Grey
PURPLE-B	Replacement blade for sled knife 1"	Purple
BLUE-B	Replacement blade for sled knife 1"	Blue
RED-B	Replacement blade for sled knife 1"	Red
RED112-B	Replacement blade for sled knife 1-1/2"	Red 1-1/2

MACHINE TOOL

MAGNETIC HEX DRIVER


MSHL1/4

Part No.	Description	Hex Opening (In.)	Overall Length (In.)
MSHL1/4	Red Code Long Hex Driver	1/4	2.56
MSHL5/16	Yellow Code Long Hex Driver	5/16	2.56
MSHL38	Blue Code Long Hex Driver	3/8	2.56
MSHML14	Red Code Extra Long Hex Driver	1/4	4
MSHXL1/4	Red Code Extra Long Hex Driver	1/4	6
MSHXL3/8	Blue Code Extra Long Hex Driver	3/8	6
MSHXL5/16	Yellow Code Extra Long Hex Driver	5/16	6

ESHOK-GUARD™ MAGNETIC ISOLATED BIT HOLDER


CAEBH2C

Protect yourself from electric shock with Crescent's new patented isolated technology, eSHOK-GUARD™, providing insulation of up to 1,000 volts. Combining safety and convenience for a revolutionary experience when working around potential live wire applications, eSHOK-GUARD's impact-rated design withstands heavy-use, impact tool applications, so you never have to sacrifice protection when using power tools. With over 85% of professionals experiencing shocks on construction job sites, eSHOK-GUARD™ is protecting you – for life.

Part No.	Description
CAEBH2C*	eSHOK-GUARD™ Magnetic Isolated Bit Holder

HOLE DOZER™ HOLE SAW BI-METAL CUPS


49569607

HOLE DOZER™ Bi-Metal Hole Saws new 3.5 TPI tooth design offers you the longest life in metal applications. These MILWAUKEE® HOLE DOZER™ Bi-Metal Hole Saws feature the industry's only Lifetime Tooth Break Warranty and can take on all general purpose applications, making them the most durable hole saws.

Part No.	Description
49569607	7/8" Hole Saw Bi-Metal Cups
49569611	1-1/8" Hole Saw Bi-Metal Cups
49569615	1-3/8" Hole Saw Bi-Metal Cups
49569617	1-1/2" Hole Saw Bi-Metal Cups
49569624	2" Hole Saw Bi-Metal Cups
49569626	2-1/8" Hole Saw Bi-Metal Cups
49569631	2-1/2" Hole Saw Bi-Metal Cups
49569633	2-5/8" Hole Saw Bi-Metal Cups
49569637	3" Hole Saw Bi-Metal Cups
49569642	3-5/8" Hole Saw Bi-Metal Cups
49569646	4-1/8" Hole Saw Bi-Metal Cups
49568000	1/4 X 4" High Speed Steel Pilot Bit

HOLE DOZER™ ELECTRICIANS HOLE SAW KIT - 10PC


49224095

10-Piece HOLE DOZER™ Electrician Hole Saw Kit features a new 3.5 TPI tooth design that offers you the longest life in metal applications. These MILWAUKEE® HOLE DOZER™ Bi-Metal Hole Saws feature the industry's only Lifetime Tooth Break Warranty and can take on all general purpose applications, making them the most durable hole saws. Our ALL-ACCESS SLOTS solve the frustration of plug removal, making you more productive with less downtime between holes.

Part No.	Description	Includes
49224095	10-Piece	7/8 " Hole Dozer™ Bi-Metal Hole Saw; (1)1 1/8 " Hole Dozer™ Bi-Metal Hole Saw; (1)1 3/8 " Hole Dozer™ Bi-Metal Hole Saw; (1)1 3-4 in Hole Dozer Bi-Metal Hole Saw; (1)2 " Bi-Metal Hole Saw; (1)2 1/2 " Hole Dozer™ Bi-Metal Hole Saw; (1)3/8 " Hex Shank Arbor; (2)3-1/2 " Pilot Bit; (1)1/8 " Hex Key; (1)7/16 " No wobble Arbor

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MACHINE TOOL


48281010

QUIK-LOK HOLESAW EXTENSIONS

The Universal QUIK-LOK™ Extension has an innovative design that fits shanks - with or without a power-groove. The unique design requires no tools to change out bits, making it fast and efficient. These new extensions are impact rated for maximum durability.

Part No.	Description	Overall Length (In.)
48281010	1/4" Universal QUIK-LOK™ Extension	6.00
48281020	1/4" Universal QUIK-LOK™ Extension	12.00


48005272

THE WRECKER™ WITH NITRUS CARBIDE™ BLADES

WRECKER™ with NITRUS CARBIDE™ SAWZALL® blade for multi-material cutting is the next generation of carbide teeth technology. Our NITRUS CARBIDE™ technology allows this blade to be the fastest cutting and longest life multi-material blade on the market. The blade features a 6TPI design for best material versatility and the ability to cut materials from wood with nails and screws to thick metals. Our blade delivers 2x life versus carbide teeth blades eliminating the need for blade changes when cutting a variety of materials. Our carbide sawzall blade is available in 6", 9" and 12" blade lengths. It is the ideal blade for demolition and remodeling jobs.

Part No.	Description	Length (In.)	Teeth Per Inch
48005272	Sawzall Wrecker Blade	2.00	6


48001630

SAWZALL® SPECIALTY BLADES

The Flush Cut Sawzall® Blade has been engineered to solve the unique frustrations encountered during window and door cut-outs. The unique design provides straighter cuts and protects the blade and teeth when cutting bottom plates.

- Unique Blade Geometry protects against floor impacts during bottom plate cut-outs.
- Floor Guard shields teeth from floor contact during bottom plate cut-outs.
- Double Truss Design guides blade for straight window cut-outs.
- NAIL GUARD ™.
- Unique design protects against tooth fracture when cutting nails between studs and joists.
- FANG TIP ™.
- Fang Tip delivers fast plunge cutting for window cut-outs.

Part No.	Description	Length (In.)	Teeth Per Inch
48001630	Sawzall Ductwork Blade	4.00	24
48005162	Sawzall Flesh Cut Metal Blade	3 5/8	14


48005221

SAWZALL® THE AX™ WITH CARBIDE TEETH WOOD BLADES

The AX™ with Carbide Teeth, engineered to deliver long life in the toughest applications while being the fastest carbide-tipped recip saw blades on the market. These new blades will deliver 50X longer life over standard bi-metal blades and 2X faster cutting than other carbide blades. The Ax with Carbide Teeth features optimized carbide tipping technology that delivers extreme life. A fast, aggressive 5 TPI blade design allows for the fastest cutting in nail-embedded wood and a wide range of residential material. In addition, The Ax with Carbide Teeth will feature Milwaukee patented features Nail Guard(tm) and Fang Tip(tm). Nail Guard allows the user to Rip Nails Not Teeth, delivering extreme durability. The Fang Tip(tm) provides the fastest plunging on any wood cutting blade on the market. The Ax with Carbide Teeth is optimized for Cordless Recip Saws delivering over 25% more cuts per charge.

Part No.	Description	Length (In.)	Teeth Per Inch
48005221	Sawzall AX Blade	6.00	5


48005021

SAWZALL® THE AX™ NAIL EMBEDDED WOOD BLADES

The AX™ SAWZALL® Blades have been engineered with MILWAUKEE® NAIL GUARD™ technology to deliver you 2X faster cuts, the longest life and greatest tooth durability of any wood demolition blades on the market. Our innovative FANG TIP™ bites into wood on first contact for the quickest plunge cuts into both wood and nail-embedded wood for increased versatility. With a thicker, more rigid blade body, these SAWZALLS® resist fracturing and bending to maximize durability in the toughest applications. The wood cutting blade has a 1" tall blade body that reduces blade twisting for straighter, more accurate cuts.

Part No.	Description	Length (In.)	Teeth Per Inch
48005021	Sawzall AX Blade	6.00	5
48005026	Sawzall AX Blade	9.00	5
48005027	Sawzall AX Blade	12.00	5


48005035

SAWZALL® NAIL EMBEDDED WOOD BLADES

Wood Cutting SAWZALL® blades have been engineered with MILWAUKEE® NAIL GUARD™ to deliver you the fastest cuts, longest life and greatest tooth durability on the market. These wood cutting blades feature FANG TIP™ that bites into wood on first contact providing you with the quickest plunge cuts for maximum efficiency. These SAWZALL® blades are equipped with matrix II bi-metal teeth that prevent against tooth fracture for greater durability. MILWAUKEE® SAWZALL® wood blades have ½" universal tangs that fit all SAWZALLS® and standard competitive saws.

Part No.	Description	Length (In.)	Teeth Per Inch
48005035	Sawzall Wood Blade	6.00	5
48005036	Sawzall Wood Blade	9.00	5


48005093

SAWZALL® STANDARD MULTI-MATERIAL BLADES

Multi-Material SAWZALL® Blades can cut through a variety of materials in the toughest professional applications. This MILWAUKEE® reciprocating saw blade features double relief angles that reduce tooth stress for longer life and have our precision forming process to create sharper teeth for fast cutting in wood, nail embedded wood, composition material, plastic, cast iron, ferrous and non-ferrous metals. Each blade is equipped with matrix II bi-metal teeth for greater durability and a ½" universal tang that fits all SAWZALLS® for maximum versatility.

Part No.	Description	Length (In.)	Teeth Per Inch
48005093	Sawzall Standard Blade	8.00	12
48005194	Sawzall Standard Blade	12.00	14


48005092

SAWZALL® STANDARD METAL BLADES

THE TORCH™ Metal Cutting Blades feature a tooth form optimized for the longest life and maximum durability. TOUGH NECK™ is engineered to protect against tang breakage and delivers the strongest SAWZALL® blade tang on the market. GRID IRON™ features a stamped honeycomb pattern throughout the body of the blade that greatly increases the rigidity of the blade, making it the stiffest metal-cutting SAWZALL® blade on the market. These blades are ideal for making tough, straight cuts.

Part No.	Description	Length (In.)	Teeth Per Inch
48005092	Sawzall Standard Metal Blades Blade	6.00	10
48005182	Sawzall Standard Metal Blades Blade	6.00	14
48005184	Sawzall Standard Metal Blades Blade	6.00	18
48005186	Sawzall Standard Metal Blades Blade	6.00	24
48005187	Sawzall Standard Metal Blades Blade	9.00	14
48005188	Sawzall Standard Metal Blades Blade	9.00	18

MACHINE TOOL



48005201

SAWZALL® TORCH™ CARBIDE BLADES

TORCH™ with Carbide Teeth SAWZALL® Blades have been engineered to deliver extreme life and unmatched versatility in thick and extreme metal cutting applications. This reciprocating saw blade delivers up to 50X life over standard blades. The TORCH™ with Carbide Teeth tackles a wide variety of metal materials ranging from black pipe and angle iron to cast iron, stainless steel, and high strength alloys. With up to 70% larger gullets than other carbide blades and an optimized tooth design, these blades deliver extreme life in metal cutting applications.

Part No.	Description	Length (In.)	Teeth Per Inch
48005201	Sawzall Carbide Torch Blade	6.00	8
48005202	Sawzall Carbide Torch Blade	9.00	8
48005301	Sawzall Carbide Torch Blade	6.00	8
48005302	Sawzall Carbide Torch Blade	9.00	8



48005712

SAWZALL® TORCH™ METAL DEMOLITION BLADES

The Torch™ metal-cutting blades with the Double Duty Upgrade™ feature a tooth form optimized for the longest life and maximum durability. Tough Neck™ is engineered to protect against tang breakage and delivers the strongest SAWZALL® blade tang on the market. Grid Iron™ features a stamped honeycomb pattern throughout the body of the blade that greatly increases the rigidity of the blade, making it the stiffest metal cutting SAWZALL® blade on the market. These blades are ideal for making tough, straight cuts.

- Carbide Teeth for 50X Life in thick metal
- 25% More Carbide per Tooth for longest life
- 7 TPI for fast, efficient cutting in thick and extreme metals

Part No.	Description	Length (In.)	Teeth Per Inch
48005712	Sawzall Torch Blade	6.00	10
48005786	Sawzall Torch Blade	6.00	24
48005782	Sawzall Torch Blade	6.00	14



48005261

SAWZALL® TORCH™ WITH NITRUS CARBIDE™

TORCH with NITRUS CARBIDE™ blade is the fastest cutting and longest life blade in cast iron and thick metals. Our NITRUS CARBIDE™ technology dissipates heat better and delivers 5X the life of existing carbide teeth reciprocating saw blades, greatly improving user productivity when cutting through cast iron. Our blade features a new 8TPI design, allowing for the fastest, smoothest cuts in all thick metals. With larger gullets than competitive carbide blades, the TORCH with NITRUS CARBIDE™ will provide easier chip ejection and resist gumming up the teeth when cutting the thickest metals. Available in 6" 9" and 12" blade lengths in 1PKs, 3PKs, and 5PKs. This blade has the best performance in all metals 3/16" thick and greater

Part No.	Description	Length (In.)	Teeth Per Inch
48005261	Sawzall Nitrus Carbide Blade	6.00	8
48005262	Sawzall Nitrus Carbide Blade	9.00	8



49567240

LARGE THREAD QUICK CHANGE ARBOR

- Tool-free operation
- Universal, quick change with all brands of hole saws
- No adapters required
- Durable hardened steel construction
- Fits all hole saws 1-1/4 in. and larger

Part No.	Description	Length (In.)
49567240	7/16" Quick Change Arbor Large Thread	1 3/4
49567250	3/8" Quick Change Arbor, Large Thread	1 3/4

CHUCK ASSORTMENT KIT

The Original Magnetic Jiffy Chuck MULTI-PIECE KITS



DC9F

SHOOK Manufactured Products, Inc.

Part No.	Descrip-tion	Includes
DC9F	9-piece	1/4 x 1-3/4 , 1/4 x 2-9/16 , 1/4 x 4 , 1/4 x 6 , 5/16 x 1-3/4 , 5/16 x 2-9/16 , 5/16 x 4 , 5/16 x 6 , 3/8 x 1-3/4, plastic storage box
DC10F	9-piece	1/4"x1-3/4",1/4"x2-9/16", 1/4"x4", 1/4"x6", 5/16"x1-3/4", 5/16"x2-9/16", 5/16"x4", 5/16"x6", 3/8"x1-3/4", and a quick change adapter, plastic storage box

BITS



32525

- Durable PVC gray block allows for easy storage of tamperproof bits.
- Block slides over most screwdriver shafts for easy bit access and storage.
- Industrial strength, heat-treated steel bits for long-lasting use.
- TORX® bits included: T7, T8, T10, T15, T20, T25, T27, T30 and T40
- Fraction Hex bits included: 3/32", 7/64", 1/8", 9/64", 5/32" and 3/16"
- Metric Hex bits included: 2 mm, 2.5 mm, 3 mm, 4 mm, and 5 mm
- Spanner bits included: 4, 6, 8, and 10
- Tri-Wing® bits included: 1, 2, 3 and 4
- TORQ-SET® bits included: 6, 8 and 10
- Includes 1/4" square to 1/4" hex adaptor to drive sockets.
- TORX® is a registered trademark of Acument Intellectual Properties, LLC.
- TORQ-SET® and Tri-Wing® are registered trademarks of Phillips Screw Co.

KLEIN TOOLS

Part No.	Description
32525*	Tamperproof Bit Set, 32 pc

JOBBER DRILL SET



FJ6180

Malco

Part No.	Description	Includes	Length (In.)
FJ6180	20-piece	Sizes: 61 to 80	5.50

DRILL BIT



N2008P

- High speed steel
- Jobber length
- Black finish

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Length (In.)	Size (In.)
N2008P	4.00	1/8

DRILL BIT



116DB

- High speed steel
- Jobber length
- Black finish

Part No.	Length (In.)	Size (In.)
116DB	1.88	1/16
564DB	2.00	5/64
332DB	2.25	3/32
764DB	2.63	7/64
964DB	2.88	9/64
532DB	3.13	5/32
1164DB	3.25	11/64
316DB	3.50	3/16
1364DB	3.63	13/64
732DB	3.75	7/32
1564DB	3.88	15/64
14DB	4.00	1/4
1764DB	4.13	17/64
932DB	4.25	9/32
1964DB	4.33	19/64
516DB	4.50	5/16
2164DB	4.63	21/64
1132DB	4.75	11/32
2364DB	4.88	23/64
38DB	5.00	3/8
2564DB	5.13	25/64
1332DB	5.25	13/32

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MACHINE TOOL

Part No.	Length (In.)	Size (In.)
2764DB	5.38	27/64
716DB	5.59	7/16
2964DB	5.63	29/64
1532DB	5.75	15/32
3164DB	5.88	31/64
12DB	6.00	1/2


48899201

STEP DRILL BITS

Step drill bits far surpasses the competition. With our single cutting edge design, you will have more control and a cleaner finish. Made of high speed steel, these new step drill bits are durable and designed to drill through most metals. The black oxide finish prevents corrosion and has great capacity to work with drilling lubricants. The new speed start tip prevents bit walking and allows faster penetration. Laser etched markings you will always know your hole sizes.

Part No.	Description	Length (In.)
48899201	#1 Step Drill Bit; 1/8"-1/2"; # of steps: 13	3.00
48899203	#3 Step Drill Bit; 1/4" - 3/4"; # of steps: 9	3.00
48899208	#8 Step Drill Bit; 1/2" - 1"; # of steps: 9	3.00
48899212	#12 Step Drill Bit; 7/8" - 1-3/8"; # of steps: 5	3.00


DE18

DOUBLE END BIT

- Punch style length
- Bit at each end
- 1/2" twist length
- 135° split point
- For use on sheet metal

Part No.	Length (In.)	Size (In.)
DE18	2.00	1/8
DE30	2.00	#30
DE316	3.50	3/16
DE14	2.50	1/4


49109112

OPEN-LOK™ MULTI-TOOL BLADE

- Reinforced Universal Fit OPEN-LOK™ anchor for better strength & control
- Universal Fit OPEN-LOK™ Anchor fits all major brands of non-starlock tools
- Cut-away blade body shape for fast plunge cuts
- Long lasting laser etching for clear and easy blade identification

Part No.	Description	Includes
49109112	OPEN-LOK™ Multi-Tool Blade Variety Kit 6PC	(2) OPEN-LOK™ 1-3/8" HCS Japanese Tooth PRO-CURVE™ Hardwood Multi-Tool Blade, (2) OPEN-LOK™ 1-3/8" TITANIUM CHARGED™ Bi-Metal Multi-Material Multi-Tool Blade, (1) OPEN-LOK™ 2-1/2" TITANIUM CHARGED™ Bi-Metal Multi-Material Multi-Tool Blade, (1) OPEN-LOK™ 1-3/8" HCS Wood Multi-Tool Blade, (1) Storage Case
49251233	OPEN-LOK™ 1-3/8" TITANIUM CHARGED™ Bi-Metal Multi-Material Multi-Tool Blades (3 PK)	QTY 3
49251571	NITRUS™ Carbide Extreme Materials Universal Fit OPEN-LOK™ Multi-Tool Blade (1 PK)	QTY 1


48324403

SHOCKWAVE IMPACT DUTY™ DRIVER BIT SET -18PC

MILWAUKEE® SHOCKWAVE Impact Duty™ 18PC Driver Bit Set is engineered to be the Most Durable, Best Fitting driver bits on the market. The WEAR GUARD TIP™ delivers increased wear resistance which protects the impact bit's fit over the life of the bit. The SHOCK ZONE™ is optimized for each tip type and length of driver bit in the set to absorb peak torque and prevent breaking.

Part No.	Description	Includes	Length (In.)
48324403	18-Piece	(1)Square Bit 2" SQ3 - (1)Slotted Bit 1" SL 1/4" - (2)Square Bit 2" SQ2 - (1) Slotted Bit 1" SL 3/16" - (1)Square Bit 1" SQ2 - (1)Square Bit 1" SQ1 - (1) SHOCKWAVE™ Compact Magnetic Bit Holder - (1)Phillips Bit 2" P3 - (2)Phillips Bit 2" P2 - (1)Phillips Bit 1" P3 - (1) Phillips Bit 1" P2 - (1)Phillips Bit 1" P1 - (1)Phillips Bit 3-1/2" P2 - (1)Square Bit 3-1/2" SQ2 - (1)TORX® 2" T15 - (1) TORX® Bit 2" T25	8.46

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


HC1

HOLE CUTTER

The hole cutter adjusts for making holes in galvanized sheet metal. It will install into the chuck of a standard electric drill as small as 1/4". Both the HC2 and HC1 feature a lightweight aluminum frame and high speed bearings at the top and bottom of the drill shaft to assure perfect cutting balance and long cutting life.

- Cutters handle up to 20 GA metal
- HC1B: replacement pivot pin set
- CBBIT: replacement cutting bit

Part No.	Description
HC1	Hole cutter, light weight aluminum frame, 2" to 12" hole
HC2	Hole cutter, light weight aluminum frame, 2" to 20" hole


TS1SHEAR

TURBO SHEAR

The time-saving TURBOSHEAR inserts directly into the chuck of a standard 1200 rpm A/C or cordless drill. It's that easy to convert your power drill to a power shear! This rugged but inexpensive accessory cuts straight and to the left and is capable of navigating tight curved patterns and squares in heavy gauge galvanized steel. Cutting applications include both ferrous and non-ferrous sheet metals, metal roofing/building panels, vinyl, steel mesh, ductwork, even the thick metal of furnace jackets, equipment enclosures or automotive body panels. An offset design keeps both hands away from work surface. Long-wearing hardened jaws are also replaceable.

- Clamping device is standard with TSHD Heavy Duty TurboShear, optional with TS1
- Non-slip flats on drive shaft of TSHD for higher torque cutting.
- TSHD will cut 20 ga spiral or layered metal seams
- Fits most 14.4-volt or larger A/C or cordless drills.
- Blind cuts require a 1-inch starting hole for TSHD, 1/2 inch for TS1

Part No.	Description	Length (In.)
TS1SHEAR*	Turbo Shear	8.30
TSHD*	Turbo Shear HD with Drill Clamp	16.75
TS1RB*	TS1SHEAR Replacement Blades	9.88
TSHDRB*	TSHD Replacement Blades	9.69

LOAD SECURITY

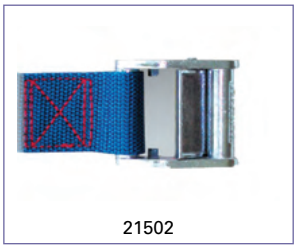

HS30

WEB STRAP

Straps for securing loads. More user friendly than rubber tie downs. Spring loaded adjustable buckle. Strong, durable 1" polypropylene webbing.

Part No.	Length (In.)
HS30	4.10
HS60	4.20
HS144[1]	5.30

[1] 3,000 lb. rating


21502

WEB STRAP

When more is better, it's time for the 1.5 inch polypropylene cam tiedown. The 1.5 inch cam buckle is rust proof, stays tight even when wet and releases easily with the thumb press. These heavy duty straps are available in lengths of 2 through 20 feet and are length color coded for convienance.

- For heavier loads
- 1.5 inch polypropylene cam tiedown
- Weather and sunlight resistant
- 1125 lb test
- Easy thumb release
- Package of 2

Part No.	Length (In.)	Color
21502	24.00	Black
21540	48.00	Red
215600	72.00	Yellow
21580	96.00	Green

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LOAD SECURITY


HS192

RATCHET STRAP

Unique ratchet action permits tie-down securely, positively. Designed with an innovative latch and a fast release cam that reduces socket wear. Cadmium-plated steel buckle has a positive lock that eliminates release due to vibration.

IRP International Refrigeration Products

Part No.	Length (In.)
HS192	7.20


BNG39

MONKEY FINGERS ADJUSTABLE BUNGEE CORD

Part No.	Length (In.)
BNG39	39.00


TD10

TIE DOWN STRAP

Hundreds of uses truck lids, boat moorings, luggage racks, tarpaulins, etc. Made of long-life weather-resistant rubber. Protects your load—no flapping or sagging. Quick on and off-hooks eliminate rope tying. Reinforced ends, hooks will not pull out.

IRP International Refrigeration Products

Part No.	Length (In.)
TD10	5.90
TD15	8.80
TD21	12.50
TD31	12.10
TD41	12.80

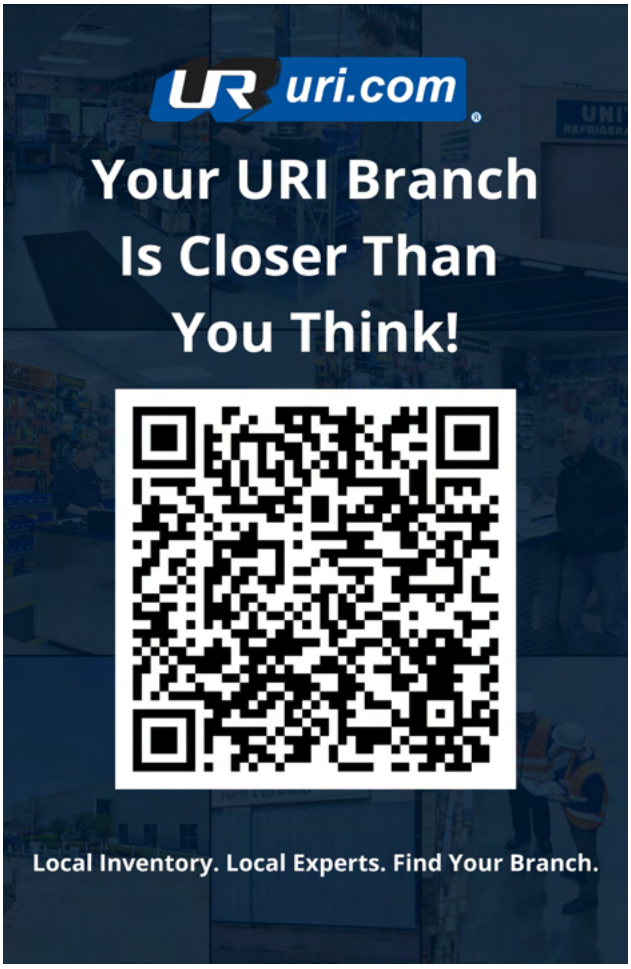

259-KLEIN

SWIVEL ANCHOR HOOK

- Swivel clevis on this forged hook will engage with snap on Klein block & tackle Cat. Nos. 1802-30 and H1802-30
- Swivel prevents twisting and kinking of rope
- Maximum safe load 750-pounds
- 1-3/16" x 1" Swivel Opening
- 1-7/8" Throat Opening
- These are NOT occupational protective devices. NOT for human support

KLEIN TOOLS

Part No.	Length (In.)
259-KLEIN	1.00



OXYACETYLENE WELDING/BRAZING


NKA700M

STUBBY™ KIT

Stubby-Style products are rugged and designed for commercial applications where size is a consideration. These tips give the user close up control and they maximize movement in tight areas.

Part No.	Includes	Regulator Tank Connection	Applica-tion
NKA700M*	NTC15WA handle, 1, 3 tip, 12' hose, goggles, lighter, 2-gauge O, MC acetylene regulators.	MC	Brazing


NKA125B

WELDING KIT

Part No.	Includes	Regulator Tank Connec-tion	Applica-tion
NKA125B*	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator.	B	Brazing
NKA125M*	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator.	MC	Brazing
NKA125M12P*	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator, plastic stand	MC	Brazing


K23

STARTER KIT, 2 TIP

These are basic starter outfits for brazing and welding.

- Kit includes 71 welding handle, 0 tip, 2 tip, 2 gauge O & MC regulators, 12 1/2' twin hose, goggles, and flint lighter.

Part No.	Includes	Application
K23	#71 welding handle, #0, #2 tip, 2 gauge 02 and MC regulators, 12-1/2' twin hose, goggles, flint lighter - Less Stand	Welding, Brazing
K23P	#71 welding handle, #0, #2 tip, 2 gauge 02 and MC regulators, 12-1/2' twin hose, goggles, flint lighter and 511 Stand - Tanks not included (Sold Separately)	Welding, Brazing
K23PT	#71 welding handle, #0, #2 tip, 2 gauge 02 and MC regulators, 12-1/2' twin hose, goggles, flint lighter and 511 Stand - Oxygen and Fuel Tanks	Welding, Brazing


NTC141CAT

CUTTING ATTACHMENT

- Used by heating, cooling, refrigeration, repair shops and industry contractors
- Forged heads for durability
- Numerous tip sizes and styles available
- UL listed components

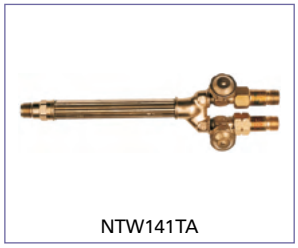
Part No.	Description
NTC141CAT*	Cutting Handle, Includes 1 Tip


CA550

CUTTING ATTACHMENT

Advanced state-of-the-art design with heavy duty one-piece solid copper mixer. Cuts up to 2" steel using proper series 5 cutting tips.

Part No.	Description
CA550	Cutting Attachement - 8" L, Light Duty - 90° Head Angle - 2" Cutting Capacity


NTW141TA

WELDING ATTACHMENT

- Rear valves
- Check valves
- A hose inlets

Part No.	Description
NTW141TA*	Rear Valve Torch with "A" Hose Inlets


NTW5A

FRONT VALVE HANDLE

- Use with N20, N3033 tips

Part No.	Description
NTW5A*	Compact Brazing Torch with "A" Hose Fitting and Front Needle Valve

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OXYACETYLENE WELDING/BRAZING


71

WELDING HANDLE

Compact, light weight, two tube silver brazed construction with front stainless steel ball point valves for one-hand fingertip control and positive shutoff. Welds up to 1/4" steel and brazes up to 6" copper tubing using proper tips.

- A hose connection: 3/8"-24 RH, O; 3/8"-24 LH, Fuel Gas

Part No.	Description
71	Welding Handle with A Hose Connections and Front Valves


KL714

HVAC, 3 TIPS, CUTTING

These are popular outfits for refrigeration and HVAC service technicians. The outfits include a cutting attachment for cutting steel and three different size welding tips for brazing and welding. These outfits are capable of brazing from 3/16" to 1" copper tubing, welding up to 1/8" and cutting up to 1/2" steel with supplied tips.

- Kit includes 71 welding handle, 0, 1, 2 tip, CA550 cutting attachment, 0 cutting tip, 2 gauge O & MC regulators, 12 1/2' twin hose, goggles, and flint lighter.

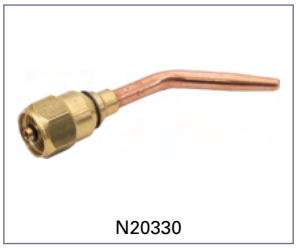
Part No.	Includes	Application
KL714	#71 welding handle, #0, #1, #2 tip, CA550 cutting attachment, #0 cutting tip, 2 gauge 02 and MC regulators , 12-1/2' twin hose, goggles, flint lighter - Less Stand	Welding, Brazing
KL714PT	#71 welding handle, #0, #1, #2 tip, CA550 cutting attachment, #0 cutting tip, 2 gauge 02 and MC regulators , 12-1/2' twin hose, goggles, flint lighter and #511 stand	Welding, Brazing
K46PT	#71 welding handle, #0, #1, #2 tip, CA100 cutting attachment, #0 cutting tip, 2 gauge 02 and MC regulators , 12-1/2' twin hose, goggles, flint lighter and #511 stand	Welding, Brazing


KLT714

MAINTENANCE, CUTTING

These are outfits designed for the maintenance service technician that has a variety of job requirements. The outfits include an attachment for cutting steel; an oxyacetylene welding tip for brazing and welding and a gas/air adapter with an acetylene Twister® tip for soldering and brazing without the use of cylinder oxygen. These outfits are capable of brazing up to 1" copper tubing, welding up to 1/8" and cutting up to 1/2" steel with supplied tips.

Part No.	Includes	Regulator Tank Connection	Application
KLT714	#71 welding handle, #2 tip, AS5 Twister® tip, F11 gas/air adapter, CA550 cutting attachment, #0 cutting tip, 2 gauge O and acetylene regulators, 12-1/2' twin hose, goggles, flint lighter, MC regulator	MC	Welding, Brazing
KLT715	#71 welding handle, #2 tip, AS5 Twister® tip, F11 gas/air adapter, CA550 cutting attachment, #0 cutting tip, 2 gauge O and acetylene regulators, 12-1/2' twin hose, goggles, flint lighter, B regulator	B	Welding, Brazing


N20330

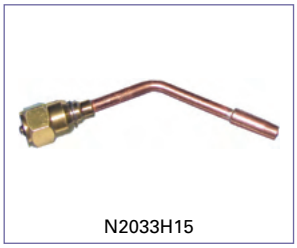
WELD/BRAZE TIP/STUBBY™

- Tips are 3" overall length
- Fits all NRP oxy-fuel handles
- Rugged design for commercial applications
- Short heavy duty design
- Gives up close control and maximizes movement in tight areas
- Made of brass and copper

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Brazing	Tip Number
N20330*	Stubby™ welding/brazing tip, 3" L, 3/16" to 3/4" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/16 to 3/4	0
N20331*	Stubby™ welding/brazing tip, 3" L, 5/16" to 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/16 to 1 1/8	1
N20332*	Stubby™ welding/brazing tip, 3" L, 3/16" to 3/4" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/16 to 3/4	2

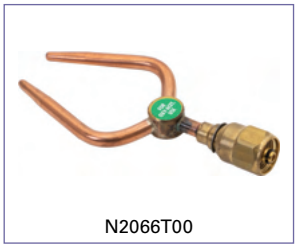
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

ROSEBUD TIP/STUBBY™


N2033H15

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Brazing	Tip Number
N2033H15*	Stubby™ rosebud tip, up to 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1 5/8	15

TWIN TIP/STUBBY™


N2066T00

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Braz-ing	Tip Num-ber
N2066T00*	Stubby™ twin tip, up to 5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 5/8	00
N2066T0*	Stubby™ twin tip, up to 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1 1/8	0
N2066T1*	Stubby™ twin tip, up to 2-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 2 1/8	1

G-TIP/STUBBY™


N2077G00

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Braz-ing	Tip Num-ber
N2077G00*	Stubby™ G-tip, up to 5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 5/8	00
N2077G0*	Stubby™ G-tip, up to 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1 1/8	0
N2077G1*	Stubby™ G-tip, up to 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1 5/8	1
N2077G2*	Stubby™ G-tip, up to 2-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 2 1/8	2

WELDING TIP


N30331

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Braz-ing	Tip Num-ber
N30331*	Welding tip, fits NRP oxy-fuel handles, 1/4" to 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/4 to 1 1/8	1
N30332*	Welding tip, fits NRP oxy-fuel handles, 5/16" to 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/16 to 1 1/8	2
N30333*	Welding tip, fits NRP oxy-fuel handles, 1/2" to 1-3/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/2 to 1 3/8	3
N3033H15*	Rosebud tip, fits NRP oxy-fuel handles, up to 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1 5/8	15
N3033H30*	Rosebud tip, fits NRP oxy-fuel handles, up to 3" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 3 1/8	30

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OXYACETYLENE WELDING/BRAZING

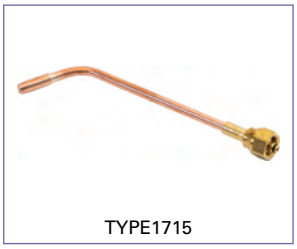

TYPE1700

WELDING, BRAZING TIP

All type 17 welding tips fit both the 71 and WH550 welding handles. Welding tips come complete with elbow, mixer and nut. Various fuel gases may be used such as acetylene, propane, Mapp®, and natural gas.

- X25R: replacement for small o-ring
- X26R: replacement for large o-ring

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Braz-ing	Tip Num-ber
TYPE1700	Welding/brazing tip, 3/64" weld thickness, 3/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8	00
TYPE170	Welding/brazing tip, 5/64" weld thickness, 5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/8	0
TYPE171	Welding/brazing tip, 3/32" weld thickness, 7/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8	1
TYPE172	Welding/brazing tip, 1/8" weld thickness, 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8	2
TYPE173	Welding/brazing tip, 3/16" weld thickness, 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 5/8	3
TYPE174	Welding/brazing tip, 1/4" weld thickness, 2-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	2 1/8	4
TYPE175	Welding/brazing tip, 3-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	3 1/8	5

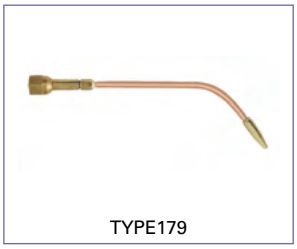

TYPE1715

ROSEBUD TIP

These tips are ideal for brazing, soldering and heating. They are compatible with both the 71 and WH550 welding handles. Ideal for brazing large copper pipe in tight work areas.

- Overall length: 7"

		Copper Tube Capacity (OD In.)	
Part No.	Description	Copper Tube	Braz-ing
TYPE1715	Rosebud tip, 7" L, 1/8" to 2-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/8 to 2 5/8
TYPE1730	Rosebud tip, 7" L, 5/8" to 6-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/8 to 6 1/8
TYPE28#2	Rosebud tip, 12" L, 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/8 to 1-5/8


TYPE179

FLEXIBLE TIP

- 10 1/2" long with mixer

		Copper Tube Capacity (OD In.)	
Part No.	Description	Copper Tube	Braz-ing
TYPE179	Flexible Tip, 10-1/2" L, up to 7/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	Up to 7/8


MTW1

MINIATURE TIP

The high performance Micro 6000™ oxyacetylene brazing tips provide precise concentrated heat up to 6,000°F, assuring pinpoint brazing accuracy and minimizing the chances of overheating adjacent components.

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Braz-ing	Tip Num-ber
MTW1	Micro 6000™ oxyacetylene brazing tip #1, 3" L, 3/64" weld thickness, 5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/8	1
MTW2	Micro 6000™ oxyacetylene brazing tip #2, 3" L, 5/64" weld thickness, 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8	2
MTR[1]	Micro 6000™ oxyacetylene brazing rosebud tip, 4" L, 1-5/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 5/8	-

[1] Rosebud style


MTT

MINIATURE FLEXIBLE TWIN TIP

• Adjustable tip ends for maximum control

Part No.	Description	Copper Tube Capacity (OD In.)	
		Copper Tube	Brazing
MTT	Miniature flexible twin tip, 4" L, 1-1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8


510100

CUTTING HEAD, SERIES 5

This series of cutting tips fits the CA550 cutting attachment.

Part No.	Description	Copper Tube Capacity (OD In.)		Tip Number
		Copper Tube	Brazing	
510100	Oxyacetylene cutting tip, fits CA550, cuts 3/8" OD	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8	00
51010	Oxyacetylene cutting tip, fits CA550, cuts 5/8" OD	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/8	0
51011	Oxyacetylene cutting tip, fits CA550, cuts 7/8" to 1-1/8" OD	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8 to 1-1/8	1
51012	Oxyacetylene cutting tip, fits CA550, cuts 1-1/8" to 2-1/8" OD	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8 to 2-1/8	2


NEN450F

REGULATOR, 2 GAUGE

These UL listed regulators are manufactured from durable brass with a neoprene rubber diaphragm, inlet filters and conical seat design.

Part No.	Tank Type	Contents (Psi)	Delivery Pressure (psi)
NEN450F*	Nitrogen	0 to 4000	0 - 300
NEN850F*	Nitrogen	0 to 4000	0 - 300


NEA1G

REGULATOR

These UL listed regulators are manufactured from durable brass with a neoprene rubber diaphragm, inlet filters and conical seat design.

Part No.	Description	Gauges		
		Delivery Pressure (psi)	Tank Type	Tank Type
NEA1G*[1]	Single gauge regulator	0 to full	B	B
NEA2G*[1]	Single gauge regulator	0 to full	MC	MC
NEA25BA*	Dual gauge regulator	0 to 30	B	B
NEA25MA*	Dual gauge regulator	0 to 30	MC	MC
NE025A*	Dual gauge regulator	0 to 100	O2	O2

[1] 1 gauge


F11

AIR/GAS ADAPTER

Converts the 71 and WH550 welding handles to use gas/air tips for brazing and soldering without the use of cylinder oxygen.

Part No.	Description
F11	Adapter, 71 & WH550, Fuel Gas Only

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OXYACETYLENE WELDING/BRAZING



1811168

OXYSET MOBILE BRAZING SYSTEM

The Oxyset is a lightweight, portable welding & brazing system for use with disposable gas cylinders. Complete with an easy-carry cylinder stand, the Oxyset is ideal for highly-mobile tradespeople or for working in hard-to-reach areas. A mixture between oxygen and gas fuel is ideal in many applications due to its adjustable heat output, this kit is suitable for a variety of applications including: welding, brazing, silver soldering and heating.

AMBRO CONTROLS

Part No.	Includes	Application
1811168	Welding torch; 6.5ft twin hose; 2 x check valves; Oxygen and Fuel Gas regulators; 2 x Nozzles; Flint sparker; spanner and caddy	Heating, Soldering, Brazing, Cutting


1811161

OXYSET PRECISION TORCH

- Thin flame, for brazing in narrow spaces
- Lightweight, easy to control torch
- Durable, nickel-plated handle
- Increased agility with superior flexible twin hose assembly
- Heavy duty design, for longer serviceability
- Connects to Oxyset regulators

AMBRO CONTROLS

Part No.	Includes	Application
1811161	Precision torch; 3 x Torch tips; 6.5 ft Twin hose assembly; Carry case 6.54" H x 10.24" L	Copper and Aluminium Soldering and Brazing


1811900

OXYSET BACKPACK

The perfect accessory for increased portability, designed to comfortably fit a complete Ambro Controls brazing solution in one convenient place. Store your Oxyset kit with a spare cylinder and torch accessories or carry the Oxyset brazing setup and Nitrogen setup together easily. Manufactured from durable, waterproof, high heat-resistant fabric, with a capacity of up to 28 lbs. Organize everything you need for that hard-to-reach brazing job in one easily accessible backpack

AMBRO CONTROLS

Part No.	Application
1811900	For storing & transporting Ambro Controls Oxyset Mobile Brazing System (1811168) sold separately



1811323

1L OXYGEN CYLINDER

The Ambro Controls 1L Oxygen Disposable Cylinder is a compact, portable, lightweight option, designed for use with Map//Pro for applications including soldering, brazing, welding and heating.

AMBRO CONTROLS

Part No.	Description
1811323	Ambro Controls Replacement Oxygen Cylinder 1595 PSI


R

OXYGEN

Part No.	Description	Size (Ft^3)
R	Oxygen gas exchange	20
RTANK	Tank deposit	20
Q	Oxygen gas exchange	40
QTANK	Tank deposit	40
60Q	Oxygen gas exchange	60
60QTANK	Tank deposit	60
80Q	Oxygen gas exchange	80
80QTANK	Tank deposit	80
125OEXC	Oxygen gas exchange	125
125OTANK	Tank deposit	125
150Q	Oxygen gas exchange	150
150QTANK	Tank deposit	150
300Q	Oxygen gas exchange	300
300QTANK	Tank deposit	300


KCHP

CAP'N HOOK® OUTFIT

Uniweld's premium portable Cap'n Hook® Outfits includes:

- Five flame tip for 100% wraparound brazing heat.
- Single stage Patriot® & Centurion® Series regulators with protective rubber gauge boots
- Front valve welding handle with stainless steel ball point valves for accurate gas control
- Welding tip for brazing up to 1" copper tubing and welding up to 1/8" steel
- NEW & Improved Cap'n Hook® 5 flame tip for brazing up to 1" copper tubing

Part No.	Includes	Application
KCHP	Less tanks - #71 welding handle, RO100 O2 and RCM100 Acetylene regulators, 17-2 and MTF5 tips, 511 carrying stand	Welding, Brazing


MTF5

CAP'N HOOK® WRAP AROUND TIP

The tough, durable stainless steel construction offers a stable flame time after time while holding its shape. This provides precise concentrated directional heat up to 6,000°F, assuring pinpoint accuracy and minimizing the chances of burning adjacent components. Cap'n Hook® tips provide 100% wraparound for even heat distribution and excellent brazing and flow of alloy.

- Cap'n Hook® tips fit Uniweld's 71 and WH550 welding handles
- Acetylene only

		Copper Tube Capacity (OD In.)	
Part No.	Description	Copper Tube	Brazing
MTF5	Cap'n hook® wrap around tip, acetylene only	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8

AIR/ACETYLENE BRAZING


NKX4B

AIR/ACETYLENE KIT

These kits feature the compact, adjustable Target® tips. Kits include quick disconnect handle, hose & accessories.
UL listed regulator.

Part No.	Includes	Regulator Tank Connection	Application
NKX4B*	quick disconnect handle, hose, NGA5, NGA14 tips, "B" regulator	B	Soldering, Brazing
NKX5B*	quick disconnect handle, hose, NGA5, "B" regulator	B	Soldering, Brazing
NKX6MC*	quick disconnect handle, hose, NGA3, NGA8, "MC" regulator	MC	Soldering, Brazing


NKA37H

AIR/ACETYLENE KIT

Economical air fuel kit contains 12' hose, NEA1G regulator, NAA1 handle, NBA4 Kit.

Part No.	Includes	Regulator Tank Connection	Application
NKA37H*	12' hose, NEA1G regulator, NAA1 handle, NBA4 tip, "B" regulator	B	Soldering, Brazing


89600

STARTER KIT

- Kit includes: 1-gauge regulator, TH6 quick connect handle, 12 1/2' acetylene hose
- Uses quick connect Twister® tips

Part No.	Includes	Regulator Tank Connection	Application
89600	A-3/A-11 tip; TH6 Rear Valve Handle; RB Regulator; 12 ft Hose; tank key	B	Soldering, Brazing
89620	A-5 tip; TH6 Rear Valve Handle; RB Regulator; 12 ft Hose; tank key	B	Soldering, Brazing
89603	A-3/A-11 tip; TH6 Rear Valve Handle; RMC Regulator; 12 ft Hose; tank key	MC	Soldering, Brazing

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AIR/ACETYLENE BRAZING


KTAQ23

STARTER KIT

• Kit includes 1-gauge regulator, ATQ2, ATQ3 quick connect Thruster® tips, TH7 quick connect handle, 12 1/2' acetylene hose

Part No.	Includes	Regulator Tank Connection	Application
KTAQ23	1 - gauge regulator, ATQ2, ATQ3 quick connect Thruster® tips, TH7 quick connect handle, 12 1/2' acetylene hose	B	Soldering, Brazing
KTA23	1 - gauge regulator, AT2, AT3 Thruster® Tips, TH5 quick connect handle, 12 1/2' acetylene hose	B	Soldering, Brazing


K37

SOFT FLAME STARTER KIT

• Kit includes: 1-gauge regulator, S23 soft flame tip (screw), TH3 rear control valve, 12 1/2' acetylene hose

Part No.	Includes	Regulator Tank Connection	Application
K37	1 - gauge regulator, S23 soft flame tip (screw), TH3 rear control valve, 12 1/2' acetylene hose	B	Soldering
K38	1 - gauge regulator, S23 soft flame tip (screw), TH3 rear control valve, 12 1/2' acetylene hose	MC	Soldering


NGG4

BRAZING HANDLE

Snap-in style torches utilize a quick disconnect to rapidly change tips. Ribbed handle provides a positive grip. All NGA tips fit this handle.

Part No.	Description
NGG4*	Target® Torch Snap-In Syle Handle


TH5

HANDLE

These air/fuel torch handles are ergonomically designed with a super tough phenolic grip for balance and comfort.

• A thread

Part No.	Description
TH5	Air/fuel torch handles, screw connect, front pilot valve, thumb control lever
TH6	Air/fuel torch handles, quick connect, rear valve
TH7	Air/fuel torch handles, quick connect, front pilot valve, thumb control lever


NGP600

SELF LIGHT TRIGGER LP TORCH

• Hot turbine flame
• Flame adjustment valve
• Use Mapp® or propane fuel

Part No.	Description
NGP600*	Mapp/Propane Torch, Trigger Light


NGHT100

SWITCHFIRE™ HAND TORCH SYSTEM

Switch your performance with multiple interchangeable tips.

• One Torch with Multiple
• Interchangeable Tip Options
• Hot Turbine Flame for Fast Soldering and Brazing
• Uses MAP-Pro™ Propylene or Propane Fuel Gas
• Adjustable Brass Regulator
• Cylinders Not Included

Part No.	Description
NGHT100*	Standard Torch with GHTT1 Tip (Standard Single Tip)
NGHT100L*	Torch with GHTTL Piezo Lighter Tip (Push Button Ignitor)

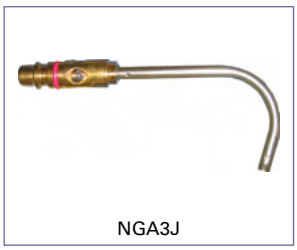
⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


NGA2

TARGET® TIP

- Tips have a filter and removable orifice
- Interchangeable with other quick disconnect style tips
- Made of heavy stainless steel and brass
- Air acetylene tip
- Snap in, quick connect style

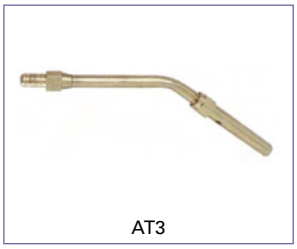
		Copper Tube Capacity (OD In.)		
Part No.	Flame Diameter (In.)	Copper Tube	Soft Solder	Silver
NGA2	1/4	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/8 to 1/2	1/8 to 1/4
NGA3*	5/16	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8 to 1 1/8	1/8 to 1/2
NGA5*	5/16	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8 to 1 5/8	3/8 to 7/8
NGA8*	3/8	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8 to 2 5/8	5/8 to 1 1/8
NGA11*	7/16	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 5/8 to 3 3/8	7/8 to 1 5/8
NGA14*	1/2	{Item.Copper Tube Soldering Capacity (OD In\.)}	2 1/8 to 4 1/8	1 1/8 to 2 1/8
NGA32*	3/4	{Item.Copper Tube Soldering Capacity (OD In\.)}	3 1/8 to 6 1/8	1 5/8 to 4 1/8


NGA3J

J TIP

- Adjustable and quiet
- Heat resistant
- Fits NGG4 handle
- Air acetylene tip
- Tip includes filter

		Copper Tube Capacity (OD In.)			
Part No.	Flame Diameter (In.)	Copper Tube	Soft Solder	Silver	Tip Number
NGA3J*	5/16	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8 to 1 1/8	1/8 to 1/2	J
NGA8J*	3/8	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8 to 2 5/8	5/8 to 1 1/8	J


AT3

THRUSTER® TIP

The air/acetylene Thruster® tips are also very popular with plumbers and repair maintenance tradesmen. The Thruster® air/acetylene injection tips produce a quiet, concentrated flame that is completely adjustable without tip damage. The tips produce a target heat of 2,700°F.

	Copper Tube Capacity (OD In.)		
Part No.	Copper Tube	Brazing	Tip Number
AT3	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8 to 2 1/8	AT3
ATQ2	{Item.Copper Tube Soldering Capacity (OD In\.)}	1/8 to 7/8	ATQ2
ATQ3	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8 to 2 1/8	ATQ3
ATQ4	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8 to 3 1/8	ATQ4


ASQ21

SOFT FLAME TIP

The air/acetylene soft flame has always been the old reliable flame tool for the plumber. The soft flame produces a precise 2,700°F target heat and is excellent for soldering copper tubing.

	Copper Tube Capacity (OD In.)		
Part No.	Copper Tube	Brazing	Tip Number
ASQ21	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1/16	ASQ21
ASQ22	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1/8	ASQ22
S22	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 1/8	S22
S23	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 3/8	S23
S24	{Item.Copper Tube Soldering Capacity (OD In\.)}	to 5/8	S24
S-25	{Item.Copper Tube Soldering Capacity (OD In\.)}	5/8 to 7/8	S25
S26	{Item.Copper Tube Soldering Capacity (OD In\.)}	7/8 to 1 5/8	S26

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AIR/ACETYLENE BRAZING


S28

TWIN FLEXIBLE TIP

- Size S22 tip ends
- Solder 1/8"-3/8", braze to 1/8"

		Copper Tube Capacity (OD In.)
Part No.	Description	Copper Tube
S28	Twin flexible acetylene tip, 1/8" to 3/8" OD solder capacity, to 1/8" OD brazing capacity	{Item.Copper Tube Soldering Capacity (OD In\.)}


NAA1

ACET-O-LITE HANDLE, SCREW-IN

- Adjustment handle in front for single hand operation
- Needle valve design
- Standard 3/8-24 LH A fitting
- Compatible with NBA tips

Part No.	Description
NAA1*	Acet-O-Lite® Screw-in Handle


UTA

TIP ADAPTER

- For TH air/gas control handles

Part No.	Description
UTA	Tip adapter for TH air/gas control handles, quick connect tip to screw connect handle

FLAME TOOL ACCESSORIES


NMA8016F

GAUGE

		Gauges	
Part No.	Description	Delivery Pressure (psi)	Outside Diameter (In)
NMA8016F*	Flat gauge for NEA1G, 1-1/2" diameter	0 to Full	1 1/2
NSTE146*	Gauge, delivery for NEA25	0 to 30	1 1/2
NSTE145*	Oxy Gauge, 1-1/2" diameter	0 to 100	1 1/2
NSTE148*	Oxy Gauge, 1-1/2" diameter	0 to 100	1 1/2
NSTE147*	Gauge, contents for NEO25	0 to 4000	1 1/2
NSTE391*	Gauge, delivery for NEN450F	0 to 1000	2
NSTE392*	Gauge, contents for NEN450F	0 to 4000	2


G15D

REPLACEMENT GAUGE

- 1 1/2" diameter
- 1/8" MPT bottom

	Gauges	
Part No.	Delivery Pressure (psi)	Gas
G15D	0 to 3	Acetylene
G19D	full to 400	Acetylene
G49D	0 to 100	Oxygen
G56D	0 to 4000	Oxygen

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RB

REGULATOR, R SERIES

- Compact design with rear inlet service
- Forged brass body with polished chrome plated bonnet
- Low profile forged brass pressure adjusting screw
- UL Listed
- 1 1/2" gauges with one piece polycarbonate lens
- Outlet connection: oxygen A RH, acetylene A LH
- Delivery pressure: oxygen 2-60 psi, acetylene 2-15 psi

	Gauges		
Part No.	Delivery Pressure (psi)	Tank Type	Tank Type
RB	0-15	B	B
RB2	0 to 30	B	B
RMC	0 to full	MC	MC
RMC2	0 to 30	MC	MC
RO	0 to 100	O2	O2


RSB2

REGULATOR, RS SERIES

- T handle for adjusting operation pressure
- Forged brass body
- Specially compounded diaphragm and seat material
- UL Listed
- 1 1/2" gauges with one-piece polycarbonate lens

	Gauges		
Part No.	Delivery Pressure (psi)	Tank Type	Tank Type
RSB2	2-15	B	B
RSMC2	0-30	MC	MC
RSO	0-100	O2	O2


NHA36

HOSE ASSEMBLY

Constructed from quality 3/16" ID single ply, fabric reinforced grade R hose.

- 200 PSI working pressure
- 3/8-24 A fittings

Part No.	Description	Connection Type	Length (Ft)
NHA36*	Single Acetylene	"A"	6.0
NHA312*	Single Acetylene	"A"	12.0
NHA325*	Single Acetylene	"A"	25.0
NSW12A*	Dual Oxy-Acetylene	"A"	12.0
NSW25A*	Dual Oxy-Acetylene	"A"	25.0


H11

SINGLE ACETYLENE HOSE

- 3/16" nominal hose size

Part No.	Connection Type	Length (Ft)
H11	"A"	6.0
H12SS	"A"	12.5
H13	"A"	25.0
H12B	"B"	12.5


H32B

OXYACETYLENE TWIN HOSE

- 3/16" nominal hose size

Part No.	Connection Type	Length (Ft)
H32B	"B"	12.5
H33A	"A"	25.0
H33B	"B"	25.0


NC1200P

CYLINDER CART

Part No.	Description
NC1200P*	Tank carrier, plastic, "R" oxy and "MC"


512

STAND

Part No.	Description
512	Tank stand, holds "MC", utility tray
515	Tank stand, holds "N20" or "CO/5 lb.", utility tray

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLAME TOOL ACCESSORIES


510

STAND, METAL

- Holds MC, R tanks

Part No.	Description
510	Tank stand, dual, holds “MC” and “R”, utility tray


511

CARRIER, PLASTIC

Part No.	Description
511	Carrying Stand For (1) Mc Tank Or (2) Disposable Fuel Cylinders & (1) R-Oxygen Tank W/Utility Tray And Brazing Rod Holder


NGA3L

EZE-LITE TIPS

- Easy push button lighting
- Interchangeable with other quick disconnect tips
- Removable/cleanable orifice
- Fits NGG4 handle

		Copper Tube Capacity (OD In.)		
Part No.	Flame Diameter (In.)	Copper Tube	Soft Solder	Silver
NGA3L*	1/4	{Item.Copper Tube Soldering Capacity (OD In\.)}	3/8 to 1 1/8	1/8 to 5/8
NGA8L*	3/8	{Item.Copper Tube Soldering Capacity (OD In\.)}	1 1/8 to 2 5/8	5/8 to 1 5/8
NGA14L*	1/2	{Item.Copper Tube Soldering Capacity (OD In\.)}	2 1/8 to 4 1/8	1 1/8 to 2 1/8


PCLD33

PROPANE LEAK DETECTOR

The propane halide leak detector instantly locates noncombustible halide (CFC & HCFC) refrigerant gas leaks. Leaks are located when the refrigerant gases are drawn in through the probe hose and exposed to a copper reactor plate, changing the blue flame to green. The detector is very sensitive and can be used to locate leaks as small as 20 ppm of CFC and HCFC refrigerants.

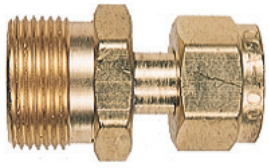
Part No.	Description
PCLD33	Propane halide leak detector, with probe hose, valve assembly, propane cylinder
PCLD33T	Propane halide leak detector, with probe hose, valve assembly, propane cylinder, tool box
PLD33V	Propane halide leak detector, with probe hose, valve assembly
LDPLC	Replacement reactor plate for propane halide leak detector


NGP18R

HALIDE LEAK DETECTOR

- For MAPP or propane gas
- 24” search hose

Part No.	Description
NGP18R*	Halide leak detector for MAPP or propane gas, 24” seared hose
NDA8A*	Replacement reactor plate for halide leak detector NGP18R


NBRS364

ADAPTER

Part No.	Description
NBRS364*	“MC” Cylinder to “B” Regulator
NBRS365*	“B” Cylinder to “MC” Regulator

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CYLINDER WRENCH



NMA2

Part No.	Description
NMA2*	Cylinder Wrench

FRICTION LIGHTER



N3011

Part No.	Description
N3011*	Friction lighter
N3011X*	Friction lighter flints, 5/pack

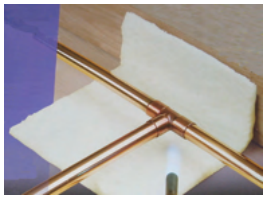
FLINT LIGHTER



FL35

Part No.	Description
FL35	Triple Flint Lighter
FL36	Triple Flint Renewal
FL37	Single Flint Renewal (Pkg. 5)

FLAME GUARD



NFG

Protects wood, painted or metal surfaces from the heat and flame of a torch.
Designed for soldering and brazing using propane and MAPP gas.

Part No.	Description
NFG	Flame guard, designed for soldering and brazing using propane and MAPP gas, 9" x 12"



NFM200F

NITRO-SAVER™ NITROGEN PURGE/BRAZE

- Preset flow rates for purging and brazing
- Internal filtering for constant flow
- Easy to use, attaches to any regulatorwith 1/4" flare outlet
- Heavy duty brass construction

Part No.	Description	Connection Size (In.)
NFM200F	Nitro-Saver™ Nitrogen purge/Braze. Attaches to any Nitrogen regulator	1/4 Flare outlet



RP3A

UNITORCH® REGULATOR

Part No.	Description
RP3A	Unitorch® Regulator with A Outlet Fitting



F31

ADAPTER, CYLINDER TO REGULATOR

- Fitting adapts cylinders to regulators

Part No.	Cylinder	Regulator
F31	CGA520 "B"	CGA200 "MC"
F32	CGA510 "POL"	CGA520 "B"
F33	CGA520 "B" 90°	CGA510 "POL"
F36	CGA580 "N"	CGA320 "CO"
F37	CGA510 "POL"	CGA200 "MC"
F41	CGA200 "MC"	CGA520 "B"
FV600[1]	CGA600 "PR"	CGA200 "MC"

[1] Use only with Uniweld MC acetylene regulators

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLAME TOOL ACCESSORIES


F58L

OUTLET ADAPTER

- Adapts regulator to hose

Part No.	Regulator	Hose
F58L	"A" Conn. LH	"B" Hose Nut LH
F58R	"A" Conn. RH	"B" Hose Nut RH
F59L	"B" Conn. LH	"A" Hose Nut LH
F59R	"B" Conn. RH	"A" Hose Nut RH


HCC47

HOSE COUPLING

- Adapts hose nut to hose nut

Part No.	Description
HCC47	Hose Coupling "A" Hose Nut RH to "A" Hose Nut RH
HCC79	Hose Coupling "A" Hose Nut LH to "A" Hose Nut LH
HCC41	Hose Coupling "A" Hose Nut RH to "A" Hose Nut RH
HCC40	Hose Coupling "A" Hose Nut LH to "A" Hose Nut LH
HCC46	Hose Coupling "A" Hose Nut LH to "A" Hose Nut LH



TCLD

TIP CLEANER

Part No.	Description
TCLD	Tip cleaner, extra long sizes, 75-49

AIR MANAGEMENT TOOL


HK-12

REHVAC DRAIN CLEANING ACCESSORY KIT

Part No.	Includes
HK-12*	12ft Connection hoses and a variety of nozzle end attachments: DF-75 drain dawg blowout adapter, CK-141 universal drain cone, TC-25 tire chuck, QN-63 needle tip and CW-15 15 Inch whip hose with a trigger gun


CB2

GAUGE REGULATOR KIT

The Drain Dawg™ is a complete condensate drain cleaning kit.

- Industry leading 0-475 psi adjustable brass piston regulator
- Internal bleed down safety
- Made in the U.S.A.
- The supplied compartmented box contains all of the adapters, fittings, and nozzles that you need for maximum effectiveness.

Part No.	Includes
CB2*	CT-475M deluxe nitrogen / CO2 0-475 psi regulator, TG-10 & BS-25 ten foot hose and blowgun assembly, and CW-15 fifteen inch whip hose


MBK6

MULTIGAS MINI KIT

- Both the Drain Dawg and the Drain Kat feature an industry leading brass piston regulator with internal bleed down safety.
- The flexible hose assembly enables you to maneuver through cabinets, coils, and hard to reach drains.
- Drain Kat can be used for many job-site tasks. With a nitrogen fill, you can purge and pressure test copper tube, calibrate pressure controls, clean condensate lines, clean coils, operate air powered tools, and cleanout oil burner lines. With a CO2 fill you can do everything you do with nitrogen except purge and test copper tube or calibrate pressure controls. CO2 should never be used inside the refrigerant pipework.

Part No.	Includes
MBK6*	Small cylinder that holds 9 cubic feet of nitrogen or 2-1/2 pounds of CO2; integral mounted regulator. 87" hose and drain gun kit, the CW-15 whip hose, and the AP-DK DrainKatTM Accessory Fitting Kit which contains the DF-75 DrainDawgTM inflatable tip, the CB-03 3/4"-1" cone fitting, the FA-01 male to male CO2 to nitrogen adapter, the FA-03 CO2 trans-fill adapter, and the the QN-S3 needle tip

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AP-06

ACCESSORY PACK

Accessory kit for MBK6

DIVERSITECH

Part No.	Includes
AP-06*	Drain Dawg™, Tire Chuck, Universal Draine Cone, 15" Whip Hose


FA02

ACCESSORIES

DIVERSITECH

Part No.	Description	Use with
FA02*	Female Nitrogen to CO Adapter	Drain Kat™ and Drain Dawg™ drain clearing equipment
BS25	Blowgun with Safety Tip	Drain Dawg™ and Drain Kat™ products are compatible with a series of fittings to connect to condensate drain lines and hoses
CK141*	1/4" to 1" Drain Cone with 1/4" Flare Fitting	Drain Dawg™ and Drain Kat™ products are compatible with a series of fittings to connect to condensate drain lines and hoses
DF75*	Inflatable Flusher	Drain Dawg™ and Drain Kat™ compatible with a series of fittings to connect to condensate drain lines and hoses
QN-S3*	Needle Tip, Part of the CB2 Kit	Drain Dawg™ and Drain Kat™ products are compatible with a series of fittings to connect to condensate drain lines and hoses
TC25	Air Chuck	Drain Dawg™ and Drain Kat™ products are compatible with a series of fittings to connect to condensate drain lines and hoses


BG1

BLOWGUN

UNIWELD

Part No.	Description
BG1	Blow gun, 1/4" MFL inlet x 1/8" FPT outlet


CT475M

REGULATOR

- Solid brass construction
- Piston style regulator out performs diaphragm style
- Multiple inert gas usage
- Large 2" gauges
- Compatible with a variety of 1/4 flare accessories
- Internal bleed down piston prevents over pressuring

DIVERSITECH

Part No.	Description
CT475M*	Nitrogen Regulator, 475 Lb., with Multi Gas CO Adapter

CHARGING/TESTING


R1349

CO REGULATOR

- Gauge pressure 0-300 psi
- Delivery pressure 5-175 psi
- 1 gauge

UNIWELD

Part No.	Description
R1349	CO Regulator, Light Duty


TGCB

TANK TEST GAUGE

Protect yourself against gas shortages by checking the cylinder contents.

UNIWELD

Part No.	Description
TGCB	Tank test gauge "B" Tank Test Gauge
TGCMC	Tank test gauge "MC" Tank Test Gauge
TGCO	Tank test gauge Oxygen Tank Test Gauge
TGCN	Tank test gauge Nitrogen Tank Test Gauge

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CHARGING/TESTING


NFM100F

NITROGEN FLOWMETER

Part No.	Connection Size (In.)
NFM100F*	1/4 FFL x 1/4 MFL

DRAIN CLEANING


417901

GALLO GUN™

The Gallo Gun is a heavy duty CO2 powered tool that quickly and easily clears condensate drain lines with 800psi of oil free air! The Gallo Gun has a strong and rugged design, built with ergonomic finger grips, and comes equipped with a flexible hose assembly and tapered fitting to fit up to a 1" drain opening. The Gallo Gun utilizes a revolutionary dual fit cartridge base that can quickly and easily fit either a 16g or larger 20g cartridge for 25% more clearing power.

Part No.	Description
417901	Gallo Gun Condensate Drain Line Declogger - CO2 Drain Opener
417916	Mag™ 16g CO2 Cartridge (12 pack)
417920	Mag™ 20g CO2 Cartridge (12 pack)
417905	Gallo Gun Cannon



NCO2K1

CO2 GUN KIT

Part No.	Description
NCO2K1	CO2 gun kit with 2 cartridges
NC02C	Refrigerant grade CO2 cartridges (5), to use with NCO2K. Contains 12 grams of refrigerant grade CO2.



CADS1

A/C DRAIN SUCKER KIT

A/C condensate drain pan overflows are a very common and costly service problem. The overflows are caused by slime and sludge that builds up and clogs the drain line. The A/C Drain Sucker quickly removes the clog and excess water, resolving the overflow problem.
Kit includes:

- Drain Sucker and Hoses
- PurCool® Shock Tabs clean and treat the remaining slime and sludge in the pan and lines
- PurCool® Pan Strip Treatment provides months of preventive treatment and free flowing drains
- All Fittings for Suction or Pressure Applications

Part No.	Description
CADS1	A/C Drain Sucker Kit with Treatment


LD10

BLOW OUT VALVE

Install this unit exiting the evaporator in a residential or commercial AC system, and hook up a 1/4" charging hose to the valve and the other end to your CO or Nitrogen tank. Turn the valve one way, and blow out the line. Turn in the other way, and remove any blockage inside the coil.

Part No.	Description
LD10	Slip Condensate Pan Blow Out Valve, 3/4" x 3/4"

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BRAZING GAS

OXYGEN


R

Part No.	Description	Size (Ft³)
R	Oxygen gas exchange	20
RTANK	Tank deposit	20
Q	Oxygen gas exchange	40
QTANK	Tank deposit	40
60Q	Oxygen gas exchange	60
60QTANK	Tank deposit	60
80Q	Oxygen gas exchange	80
80QTANK	Tank deposit	80
125OEXC	Oxygen gas exchange	125
125OTANK	Tank deposit	125
150Q	Oxygen gas exchange	150
150QTANK	Tank deposit	150
300Q	Oxygen gas exchange	300
300QTANK	Tank deposit	300

ACETYLENE


MC

Part No.	Description	Size (Ft³)
MC	Acetylene Gas Exchange	10
MCTANK	Tank deposit, (less gas)	10
20MC	Acetylene Gas Exchange	20
B	Acetylene Gas Exchange	40
BTANK	Tank deposit	40
SJR	Acetylene Gas Exchange	75
SJRTANK	Tank deposit	75
4ACET	Acetylene Gas Exchange	250
4ACETANK	Tank deposit	250
WQ	Acetylene Gas Exchange	60
WQTANK	Tank deposit	60

PROPANE


MT1

- CGA600 connection
- Non-refillable

Part No.	Description	Container Size
MT1	Mapp/Pro™	14.1 oz
TX9	Propane	14.4 oz

PRESSURE TESTING GAS

NITROGEN


20N

Part No.	Description	Size (Ft³)
20N	Nitrogen gas exchange	20
20NTANK	Tank deposit	20
N	Nitrogen gas exchange	40
NTANK	Tank deposit	40
60N	Nitrogen gas exchange	60
60NTANK	Tank deposit	60
88N	Nitrogen gas exchange	88
88NTANK	Tank deposit	88
88NTANKALUM	Tank deposit-Aluminum	88
115NEXC	Nitrogen gas exchange	115
115NTANK	Tank deposit	115
144N	Nitrogen gas exchange	144
144NTANK	Tank deposit	144
300N	Nitrogen gas exchange	300
300NTANK	Tank deposit	300
N230	Nitrogen gas exchange	250
N230TANK	Tank deposit	250

CO2


CO215TANK

Part No.	Description	Size (Lbs.)	Size (Ft³)
CO215TANK	Tank deposit	15	
50CO2	CO2 Gas Exchange	50	
CO2ALUM	CO2 Gas Exchange-Aluminum		20
CO2TANKALUM	Tank deposit-Aluminum		20

BRAZING ALLOY



SWALCU55

AL-COP BRAZE

Used to join aluminum and copper. It has a low melting point and narrow melt range; suitable for brazing aluminum alloys. High zinc content relative to other aluminum filler metals provides increased wetability.

- HVAC applications with Brass, Copper, Aluminum and Steel
- Is effective with any of these heat sources: Oxy-acetylene torch, Natural gas torch, MAPP Gas, Induction
- Joining all brazable grades of aluminum and copper; Aluminum to Aluminum or Aluminum to Copper wire pigtail splices; Aluminum to Copper, Aluminum to Brass or plated terminals
- Solution temperature during heat treating must be below the solidus of the braze alloy in order to ensure integrity of the joint is maintained.
- Where it is desirable to attain flow into tight capillary joints

Part No.	Sticks per Tube	Wire Length (In.)
SWALCU55	5	8



H21035

PHOSPHORUS/COPPER/SILVER BRAZING ALLOYS

Phos/copper and silver/phos/copper alloys are used to braze copper to copper and copper to brass. The phosphorus content in these alloys makes them self-fluxing on copper. When brazing brass or copper to brass, use Stay-Silv white brazing flux. Wire sizes are 20" in length and packaged in 1 lb. tubes.
H60148 comes in 36" lengths

Part No.	Ag %	Sticks per Tube	Wire Size (In.)	Container Size
H21035*	0	28	0.05 x 1/8	1 lb tube
H41035*	5	28	0.05 x 1/8	1 lb tube
H51035*	6	28	0.05 x 1/8	1 lb tube
DYNAFLOW*	6	28	0.05 x 1/8	1 lb tube
H61035*	15	28	0.05 x 1/8	1 lb tube
H60148*[1]	15	6	1/8 Sq.	1 lb tube
H60135*	15	11	1/8 Sq.	1 lb tube

[1] Special 36" in length packaged in bulk 25 lbs



ZN78CW09020POP

ALUMINUM ALLOY

Excellent strength and corrosion resistance for joining aluminum-to-aluminum or aluminum-to-copper or brass.

Free flowing with unequaled capillary attraction, ductility, and penetration. ALUXCOR™ zinc aluminum alloys have non-corrosive and non-hygroscopic cesium flux with a lower melting temperature and wider melting range than aluminum silicon alloys.

Part No.	Al %	Wire Dia.(In,)
ZN78CW09020POP*	22.0	9.4E-2



H76310

CADMIUM-FREE

These high silver content, cadmium free alloys are suitable for dissimilar metals such as steel to copper.

Part No.	Ag %	Wire Dia.(In,)	Container Size
H76310*	45	1/16	1 Oz. Spool
H76313*	45	1/16	3 Oz Spool
H76315*	45	1/16	5 Oz Spool
H75310*	56	1/16	1 Oz. Spool
H75313*	56	1/16	3 Oz Spool
H75315*	56	1/16	5 Oz Spool



C42F1

FLUX COATED, LOW FUMING BRONZE

- Cu 58%
- Sn 1%
- Mn 0.040%
- Fe 0.75%
- Si 0.10%
- Melting point: 1620°F

Part No.	Ag %	Sticks per Tube	Wire Dia.(In,)	Wire Size (In.)	Container Size	Wire Length (In.)
C42F1	0	25	3/32	18	1 lb tube	36

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


H76324

FLUX COATED

These high silver content, flux coated, cadmium free alloys are suitable for dissimilar metals such as steel to copper.

Part No.	Ag %	Sticks per Tube	Wire Dia.(In,)
H76324*	45	9	1/16
H75324*	56	1	1/16 x 18
H77324*	40	9	1/16 x 18
75324*	56	9	1/16


45TCW25004

HIGH SILVER FLUX CORED ROD

Contains 45% silver and meets the BAg-36 specification. Its primary use would be for joining copper or brass to metals such as brass, steel or stainless, and for joining steel or stainless to steel or stainless. It is a self fluxing rod and does not require additional flux.

Part No.	Ag %	Sticks per Tube	Wire Size (In.)	Wire Length (In.)
45TCW25004*	45	4	0.078	19 2/3


H45535

BLOCKADE® SI/SN BRAZING ALLOY

BLOCKADE® is the first of a new family of silicon/tin alloyed brazing filler metals. BLOCKADE® is engineered to join copper, brass, or bronze. Its innovative composition provides the following brazing features:

- The ability to form a large shoulder, or cap, at the braze connection
- A highly visible silver-gray cap, (fillet). This allows quick, accurate, visual confirmation of a leak free seal
- Improved ductility over BCuP-2, (non-silver bearing), alloys
- Significant reduction in brazing temperature over BCuP braze alloys

Part No.	Ag %	Sticks per Tube	Wire Dia.(In,)	Wire Length (In.)
H45535*	0	20	1/32	20


H10001

SILVER BEARING SOLDER, LEAD FREE

Federal law prohibits lead bearing solders in potable water applications. The 4 and 6% solders are widely used in refrigeration and HVAC applications, while Bridgit (50/50) is most commonly used in plumbing applications.

Part No.	Ag %	Wire Dia.(In,)
H10001*	4	1/8
H10004*	4	1/16
H10009*	6	1/8

TIN SOLDER


50/50

GENERAL PURPOSE

- General purpose solders
- Lead free

Part No.	Wire Dia.(In,)
50/50*	1/8
95/5*	1/8

FLUX



SWASF1

ALLOY SOL FLUX

This powdered flux used for brazing aluminum and aluminum based alloys. The flux wets the joining surfaces thoroughly and prevents the entrapment of aluminum oxide inclusions in the joints. It can be used as supplied or mixed with water to form a paste.

- Decontaminates the repair area without precleaning.
- Is effective with any of these heat sources: Oxy-acetylene torch, Natural gas torch, MAPP Gas, Induction
- Pairs with Alloy Sol Rods and Alloy Braze Rods

Part No.	Container Size	Use with
SWASF1	1 Oz.	Alloy Sol Rods; Alloy Braze Rods

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FLUX



H40022

WHITE PASTE FLUX

- An all purpose, low temperature flux for use with brazing rods and silver content above 5%

Part No.	Container Size	Use with
H40022*	7 Oz.	brazing rods and silver content above 5%
H40021*	1/2 Lb.	brazing rods and silver content above 5%
H40023*	1 Lb.	brazing rods and silver content above 5%



H40002

LIQUID

- Used with silver bearing and tin solders

Part No.	Container Size	Use with
H40002*	4 Oz.	silver bearing and tin solders
H40003*	16 Oz.	silver bearing and tin solders
H40004*	32 Oz.	silver bearing and tin solders
H40005*	1 Gal.	silver bearing and tin solders



H40027

STAY CLEAN PASTE

- Used with silver bearing and tin solders

Part No.	Container Size	Use with
H40027*	4 Oz.	silver bearing and tin solders



RFP4

FLUX PASTE

- Super detergent action cleans as it solders
- Nonacid, nontoxic, lead free
- Contains no zinc chloride
- Water soluble for faster flushing from pipe lines
- Use with all common soft solders
- For use on copper, brass, galvanized iron, lead, zinc, tin, silver, nickel, mild steel, terne plate, and malleable iron.
- Certified to ANSI/NSF Std. 61 for use with potable water

Part No.	Container Size	Use with
RFP4	4 Oz.	all common soft solders

BRAZING



RT420H

WETRAG HEATSHIELD

Part No.	Container Size	Description
RT420H	1 Pad	Viper Wetrag Heatshiled - Flame - Resistant Pad



LENE4

SOLDERLENE® FLUX

- A high quality, paste type, nonacid soldering flux.
- Industrial strength wetting agents to promote solder flow
- For use with low and mid-temp. soft solders, both leaded and lead-free

Part No.	Container Size	Use with
LENE4	4 Oz.	Low and mid-temp. soft solders, both leaded and lead-free
LENE16	16 Oz.	Low and mid-temp. soft solders, both leaded and lead-free


437136

THERMO-TRAP®

Solder, braze and weld without damaging nearby sensitive controls, gaskets, fittings or other equipment.
Applied to the metal working surface between the area being heated and the material to be protected, Thermo-trap absorbs the heat, preventing heat transfer. This keeps heat from spreading beyond the work area, protecting components, installed fittings and other sensitive parts safe from damage.

Part No.	Container Size	Case Qty*	Description
437136	11 Oz Paste	24	Thermo-Trap® Paste
437132	32 Fl. Oz., Spray Bottle	12	Thermo-Trap® Spray

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


CG11509

COOL GEL®

- Helps protect rubber, plastic, distortion, painted and finished surfaces during soldering, brazing or welding
- Unique gelled formula sticks to surfaces without dripping or running off
- Clear, non-staining gel leaves no residue eliminating clean-up
- Safe, non-toxic, harmless to skin and odorless
- Reduces danger of fire to surrounding surfaces

Part No.	Container Size	Case Qty*	Description
CG11509	32 Fl. Oz.	12	Cool Gel® heat barrier spray


RT400P

VIPER WETRAG PUTTY

Viper WetRag is a reusable putty made from the same materials found in the heat shield of the space shuttle.

- Reusable like a Wet Rag
- Protects surfaces, valves and other sensitive parts from heat damage
- Blocks direct and conductive heat transfer
- No mess formula
- Use with MAP/Pro, Oxy/Acetylene, Mig, Tig, Arc and Propane torches
- Non-Toxic

Part No.	Container Size	Case Qty*	Description
RT400P	12 Oz.	12	Viper Wet Rag Reusable Heat Blocking Putty


HC3

C-FLUX®

A lead free, high quality flux containing powdered solder which provides added insurance for a leak free joint.

- Use with tin/antimony soft solders

Part No.	Container Size	Use with
HC3	3 Oz	tin/antimony soft solders
HC12	12 Oz.	tin/antimony soft solders

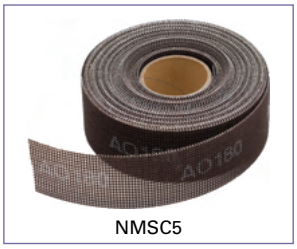
SERVICE


H1000B

HVAC BRAZING REPAIR KIT

The ultra-portable Harris® brazing repair kit meets the needs that most any HVAC and refrigeration service technician may have while repairing aluminum and copper leaks in the field. This six-piece kit features Aluxcor® for aluminum and Stay-Silv® 15, the industry's most widely used copper brazing alloy. The kit also includes two wire brushes for cleaning prior to repair - one for aluminum and one for copper, a general cleaning cloth, conveniently packed in a canvas storage bag that can be attached to a belt or equipment.

Part No.	Ag %	Sticks per Tube	Wire Dia.(In,)	Wire Length (In.)
H1000B	15.5	6	0.090	6


NMSC5

MESH CLOTH

- Open mesh sand screen cloth
- 180 Grit

Part No.	Length (Yards)	Description
NMSC5	5	Tube cleaning mesh cloth
NMSC10	10	Tube cleaning mesh cloth
NMSC25	25	Tube cleaning mesh cloth


66510

TUBE CLEANING

Part No.	Length (Yards)	Description
66510	10	Tube cleaning sand cloth
66525	25	Tube cleaning sand cloth

FASTENER


N6601

HEX HEAD CAP SCREW

- Grade 2 steel
- Zinc plated

Part No.	Thread Size (In.)	Pkg Qty
N6601	1/4″-20	24
N6621	5/16″-18	17
N6641	3/8″-16	11
N6602	1/4″-20	23
N6622	5/16″-18	15
N6642	3/8″-16	10
N6682	1/2″-13	7
N6603	1/4″-20	17
N6623	5/16″-18	15
N6643	3/8″-16	8
N6644	3/8″-16	6


N6401

STOVE BOLT

- Steel
- Zinc plated
- Nuts included

Part No.	Thread Size (In.)	Pkg Qty
N6401	3/16″-24	33
N6402	3/16″-24	30
N6412	1/4″-20	20
N6403	3/16″-24	25
N6413	1/4″-20	17
N6414	1/4″-20	14
N6415	1/4″-20	12
N6416	1/4″-20	10


N6701

FLAT WASHER

- Zinc plated
- N38WC packaged in plastic screwtop jar

Part No.	Nominal Size (In)	Pkg Qty
N6701	3/16	127
N6702	1/4	86
N6703	5/16	45
N6704	3/8	34
N38WL	3/8	50
N38WC	3/8	100
N38WII	3/8	250
N6706	1/2	16
N6700A[1]	-	107

[1] 6 assorted sizes


N6722

FENDER WASHER

- Zinc plated steel

Part No.	Nominal Size (In)	Outside Diameter (In)	Pkg Qty
N6722	1/4	1 1/4	23
N6722C	1/4	1 1/4	100
N6724[1]	3/8	1.5	18
N6724C	3/8	1 1/2	100

[1] Painted white


N6731

SPLIT LOCK WASHER

Part No.	Nominal Size (In)	Pkg Qty
N6731	1/4	85
N6732	5/16	70
N6733	3/8	48

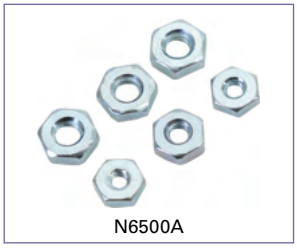

N6501

FINISHED HEX NUT

- Steel
- Zinc plated

NATIONAL REFRIGERATION PRODUCTS

Part No.	Thread Size (In.)	Pkg Qty
N6501	1/4"-20	57
N6501C	1/4"-20	100
N6502	5/16"-18	37
N6503	3/8"-16	26
N38HNL	3/8"-16	50 (Jar)
N38HNII	3/8"-16	250 (Jar)
N38HNC	3/8"-16	100 (Jar)
N6505	1/2"-13	11
N6505L	1/2"-13	50


N6500A

MACHINE SCREW HEX NUT

- Grade 2 steel
- Zinc plated

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N6500A	Assortment, 6-32, 8-32, 10-32	60


N6843H

SHEET METAL SCREW

- Slotted hex washer head
- Zinc plated steel

NATIONAL REFRIGERATION PRODUCTS

Part No.	Length (In.)	Screw Size	Pkg Qty
N6843H	4.50	8	84
N6845H	5.00	8	70
N6846H	5.20	8	58
N6855H	4.50	10	52
N6856H	5.00	10	47
N6858	5.60	10	34
N6859	5.40	10	24
N6865	4.90	12	38
N6865C	1.00	12	100
N6866	4.40	12	33


N6876

SHEET METAL SCREW, PAN

- Combination: phillips/slotted
- Zinc plated steel

NATIONAL REFRIGERATION PRODUCTS

Part No.	Length (In.)	Screw Size	Pkg Qty
N6876	4.20	14	21
N6858PH	4.00	10	29
N6859PH	4.80	10	21


N6943C

SHEET METAL SCREW, TEKS

- TEKS, self-drilling
- Zinc plated steel

NATIONAL REFRIGERATION PRODUCTS

Part No.	Screw Size	Pkg Qty
N6943C	8	100
N6943D	8	500
N6945C	8	100
N6945D	8	500
N6946C	8	100
N6953C	10	100
N6953D	10	500
N6955C	10	100
N6955CHH	10	100
N6955D	10	500
N6955DHH	10	500
N6955M	10	1000
N6956C	10	100
N6956D	10	500
N6966C	12	100
N6966D	12	500
N6900	12/14	Assorted

FASTENER


N6000

SET SCREW

- Hex socket
- Cup point

Part No.	Description	Pkg Qty
N6000	Set screw Assortment, 1/4" - 20, 5/16" - 18, 3/8" - 16	16
N6001	Set screw Assortment, 8 - 32, 10 - 32, 1/4"-28	23


N6943WHC

SHEET METAL SCREW, PHILLIPS WASHER HEAD

- Self-drilling screw

Part No.	Length (In.)	Screw Size	Pkg Qty
N6943WHC	1.00	8	100
N6943WHD	1.00	8	500


N7033

TOGGLE BOLT

- Zinc plated steel

Part No.	Bolt Size (In.)	Pkg Qty
N7033	3/16	6
N7034	1/4	5
N7036X	3/8	4
N7063	3/16	5
N7066X	3/8	4


N7101C

ANCHOR KIT

Part No.	Description	Includes	Pkg Qty
N7101C	Anchor kit, conical	8 x 1" Combination (Phillips/Slotted) Sheet Metal Screws with 8-10 x 7/8" Blue Plastic Conical Anchors and 3/16" x 4" Masonry Drill Bit	100
N7104BC	Anchor kit, fluted	8 x 1" Slotted Hex Washer Head Sheet Metal Screws with 7-9 x 1" Red Straight Fluted Anchors and 3/16" x 4" Masonry Drill Bit	100
N7106BC	Anchor kit, fluted	10 x 1" Slotted Hex Washer Head Sheet Metal Screws with 10-12 x 1" Green Straight Fluted Anchors and 1/4" x 4" Masonry Drill Bit	100
N7124BC	Anchor kit, lip	10 x 1" Slotted Hex Washer Head Sheet Metal Screws with Grey Lip Anchors and 1/4" x 4" Masonry Drill Bit	100
N7102C	Anchor kit, conical	10 x 1-1/4" Combination (Phillips/Slotted) Pan Head Sheet Metal Screws with 10-12 x 1" Blue Plastic Conical Anchors and 1/4" x 4" Masonry Drill Bit	100
N7111C	Anchor kit, fluted	14 x 1" Combination (Phillips/Slotted) Pan Head Sheet Metal Screws with 14 x 1" Blue Straight Fluted Anchors and 5/16" x 4" Masonry Drill Bit	100
N7103C	Anchor kit, conical	4 x 3/4" Combination (Phillips/Slotted) Sheet Metal Screws with 6-8 x 3/4" Blue Plastic Conical Anchors and 5/32" x 3" Masonry Drill Bit	100


N7302

MOLLY SCREW

Part No.	Description	Pkg Qty
N7302	Molly screw, 1/2" wall thickness, 1/4" hole	6
N7303	Molly screw, 3/4" wall thickness, 1/4" hole	6


NTK14

TAPCON KIT

- Hex washer head tapcons with drill bit

Part No.	Description	Pkg Qty
NTK14	Tapcon anchor kit with drill bit, 1/4" x 1-1/4"	25
NTK34	Tapcon anchor kit with drill bit, 1/4" x 1-3/4"	25


NSD14

DROP-IN THREADED ANCHOR

- For concrete

Part No.	Description	Pkg Qty
NSD14	Steel Drop In Anchor, 1/4"	4
NSD38	Steel Drop In Anchor, 3/8"	25
NDIT14	Setting Tool for 1/4" Drop-Ins	1
NDIT38	Setting Tool for 3/8" Drop-Ins	1


N6933C

SHEET METAL SCREW, ZIP

- Hex head
- Self-piercing
- Zinc plated steel

Part No.	Screw Size	Pkg Qty
N6933C	8	100
N6933M	8	1000
N6853Z	10	51
N6845Z	8	55
N6845ZM	8	1000


N7317L

SELF DRILL ANCHOR KIT

- Phillips pan head sheet metal screws
- Plastic self drilling anchors ideal for drywall installations

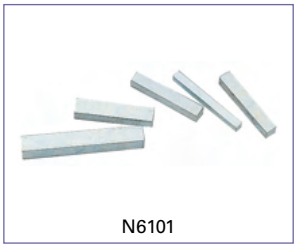
Part No.	Description	Pkg Qty
N7317L	Self drill anchor kit with screws, plastic, light duty	50
NPK92	Self drill anchor kit with screws, plastic	50
NZK92	Self drill anchor kit with screws, zinc plated	50


NWK38

WEDGE ANCHOR KIT

- With drill bit

Part No.	Includes	Pkg Qty
NWK38	3/8" x 2 3/4" Wedge Anchor with 3/8" x 4" Masonry Drill Bit	20


N6101

MOTOR SHAFT KEY

Part No.	Includes
N6101	Small assortment: 1/8 x 1 1/4" (2), 3/16 x 1 1/8" (4), 1/4 x 1 3/4" (2), 3/16 x 1/4 x 1 1/8" (2)
N6102	Large assortment: 1/4 x 1 3/4" (3), 5/16 x 3" (2), 3/8 x 3" (2)

FASTENER


N6202

HOSE CLAMP

- Stainless steel band, housing
- Plated steel screw

		Diameter (In.)		
Part No.	SAE Number	Min	Max	Pkg Qty
N6202		0.25	0.62	6
N6203	6	0.44	0.78	6
N5410	10	0.56	1.06	6
N5416	16	0.81	1.5	6
N5420	20	0.81	1.75	6
N5424	24	1.06	2.0	6
N5436	36	1.81	2.75	4


N6011

COTTER PIN

Part No.	Description	Pkg Qty
N6011	Cotter pins	66


P08X2ZW50

REGISTER SCREW, ZIP-IN ®

- Oval phillips slot
- Painted white

Part No.	Description	Pkg Qty
P08X2ZW50	Zip-In® register screw, oval phillips slot, white, 8-18 tpi	50
P08X2ZW250	Zip-In® register screw, oval phillips slot, white, 8-18 tpi	250


BT131T

SHEET METAL SCREW, BIT-TIP®

- Bit-tip® drills its own hole, taps a matching thread and fastens in steel up to .220" thick
- Hex head with washer

Part No.	Thread Size (In.)	Pkg Qty
BT131T	1/4"-8	1000
BT131100	1/4"-8	100
BT133100	1/4"-8	100
BT134	1/4"-8	500
BT141	5/16"-10	500
BT143	5/16"-10	500


HW8X1/2Z

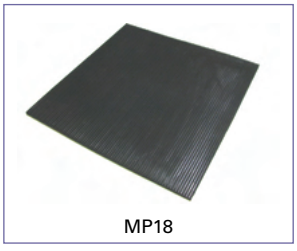
SHEET METAL SCREW, ZIP-IN®

A single starting thread is machined down to the very tip of the point and is the source of Zip-In's® penetrating power. A second thread above the point engages after initial penetration and moves the screw in double fast.

- 1/4" hex size

Part No.	Thread Size (In.)	Pkg Qty
HW8X1/2Z	1/4"-8	1,000
HW8X1/2ZBULK	1/4"-8	12,000
HW8X34Z1000	1/4"-8	1,000
HW8X1Z500	1/4"-8	500
HW8X112ZW250	1/4"-8	250
HW8X2Z250	1/4"-8	250
HW10X3/4Z	1/4"-10	1,000
HW10X1Z100	1/4"-10	100
HW8X12Z100	1/2"-8	100

VIBRATION DAMPENING


MP18

VIBRATION PADS

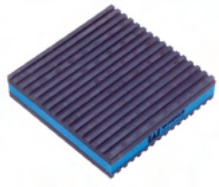
Highest quality elastomeric oil-resistant padding. Designed to withstand 50 lbs. per square inch. The plain rubber pads are corrugated on both sides and the cork is laminated between two corrugated pads.

Part No.	Description	Thickness (In)
MP18*	Vibration dampening pad, rubber	0.38
MP2C*	Vibration dampening pad, rubber/cork	0.88
MP3C*	Vibration dampening pad, rubber/cork	0.88
MP4C*	Vibration dampening pad, rubber/cork	0.88

Continued on next page

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

Part No.	Description	Thickness (In)
MP6C*	Vibration dampening pad, rubber/cork	0.88
MP18C*	Vibration dampening pad, rubber/cork	0.88


MP2E

EVA™ VIBRATION PADS

Extreme Vibration Attenuation (EVA™) is the latest generation in vibration dampening technology. In the most severe vibration extremes, testing shows the EVA™ pad outperforms regular pads. The enhanced performance comes from the special composite foam center which is structurally more sound than cork. EVA™ is not affected by oils or chemicals that can break down cork and is much more effective at vibration dampening that solid rubber. Designed to withstand 50 psi.

IRP International Refrigeration Products

Part No.	Description	Thickness (In)
MP2E*	Anti-vibration pad, EVA™	0.88
MP3E*	Anti-vibration pad, EVA™	0.88
MP4E*	Anti-vibration pad, EVA™	0.88
MP6E*	Anti-vibration pad, EVA™	0.88
MP-18E*	Anti-vibration pad, EVA™	0.88


SUPERWPAD

WAFFLE PAD

For noise and vibration reduction. Increased deflection from waffle design. Suction cup design does not walk.

- 3/4" thick
- Load rating: 180 lbs./2" square
- 2" squares with thin connecting web for easy separation into proper size

Part No.	Description	Thickness (In)
SUPERWPAD*	Vibration dampening waffle paf,	0.75
R2X2SW*	Vibration dampening waffle paf,	0.75


HDGREEN

NEOPRENE HANGER

Static deflection and vibration control in a steel strap for hanging loads.

- Double deflection neoprene element

MASON WHOLESALE

Part No.	Depth (In)	Rated Capacity (Lbs.)
HDGREEN	1.75	<35
HDABLACK	2.00	<45
HDAGREEN	2.00	30 to 75
HDARED	2.00	60 to 125
HDBRED	3.25	<235


NDABLACK

NEOPRENE SURFACE MOUNT

Double deflection neoprene mounts for surface loads. High static deflections. Complete rubber covering for corrosion protection in outdoor or humid environments.

MASON WHOLESALE

Part No.	Description	Maximum Load (Lbs)
NDABLACK	Vibration dampening neoprene hanger	45
NDAGREEN	Vibration dampening neoprene hanger	75
NDARED	Vibration dampening neoprene hanger	125
NDBGREEN	Vibration dampening neoprene hanger	150
NDBRED	Vibration dampening neoprene hanger	235
NDBWHITE	Vibration dampening neoprene hanger	380


SLFHA125

UNHOUSED SPRING MOUNT

1" deflection mounts used on upper building levels with wide vibration sensitive spans.

- With baseplate

MASON WHOLESALE

Part No.	Description	Capacity (Lbs)
SLFHA125	Vibration dampening neoprene hanger	125
SLFHA200	Vibration dampening neoprene hanger	200


HG38

ISOLATION WASHER BUSHING

Minimum isolation where mounts or hangers are not required.

MASON WHOLESALE

Part No.	Description	Outside Diameter (In)
HG38	Isolation washer bushing	1 1/4
HG50	Isolation washer bushing	1 1/8

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

HVACR TAPE



1599B3

UL STANDARD 181B-FX

A Specialty Grade Cloth Duct Tape Designed For Use In The Hvac Industry To Seal, Seam and Join Class 1 Flex Duct Systems. Used For Installing Air Ducts and Air Connectors.

Nashua Tape Products

Part No.	Description	Roll Length (yd)	Thickness (Mils)
1599B3	1599B UL181B-FX Polypropylene Duct Tape	120.0	3.0
5T555	555 UL181B-FX Silver Metalized Film Tape	120.0	3.1
957M-3	957 UL181B-FX Duct and Film Tape	180.0	6.5
957M-2	957 UL181B-FX Duct and Film Tape	180.0	14.0


326380

TPO LINE SET INSULATION WRAP

The TPO rolled mastic sealant is a 6.5-mil TPO roofing membrane laminated to a butyl adhesive sealant to form a 22-mil composite. The TPO Line Set Wrap is applied by peeling off the release liner while covering the pipe wrap insulation. Since this membrane is 100% solid, there is no shrinkage or additional coats required due to absorption by the insulation. This allows the product to meet or exceed the IECC code criteria for protection against sunlight-UV, moisture, equipment maintenance, and wind.

HARDCAST CARLISLE

Part No.	Description	Width (In)	Color	Roll Length (yd)	Thickness (Mils)
326380	TPO Line Set Wrap	6.00	White (none-gloss)	25.0	3.0


1507B

PIPE LINE SET

UV resistant, bi-axially oriented polypropylene tape coated with cold weather solvent acrylic adhesive. Lasts longer than cloth duct tape and will not delaminate with age. Waterproof, weatherproof, designed for use in refrigerators and freezers

VentureTape

Part No.	Description	Width (In)	Color	Roll Length (yd)	Thick-ness (Mils)
1507B	Polyken 444 Acrylic Printed Line Set Tape	2.00	Black	60.0	3.0
1507S	1507 Reflective BOPP Tape	2.00	Silver	60.0	3.0
1507W	White Yard Line Set Tape & Reflective Insulation Seaming Tape	2.00	White	60.0	3.0



1577CWE

COOLER REPAIR

Patented, zero permeability, 5-ply, self adhesive material that installs easily with no special tools. For covering seams in coolers and freezers. Can be applied in cold temperatures. Mold resistant adhesive

VentureTape

Part No.	Width (In)	Color	Roll Length (yd)	Thickness (Mils)
1577CWE	4.00	Aluminum	15.0	6.0
1577CWW	4.00	White	15.0	6.0

CLOTH DUCT TAPE

DUCT TAPE


357-2BL

Part No.	Description	Width (In)	Roll Length (yd)	Thick-ness (Mils)
357-2BL	357 Black Heavy Duty Duct Tape	2.00	60.0	13.0
2X60W357	357 Premium Duct Tapes	2.00	60.0	13.0
357-2SL	357 Silver Metalized Duct Tape	2.00	60.0	13.0
357-3BL	357 Premium Duct Tapes	3.00	60.0	13.0
398-2BL	398 Black Cloth Duct Tape	2.00	60.0	11.0
398-3BL	398 Black Cloth Duct Tape	3.00	60.0	11.0
398-2SL	398 Professional Grade Duct Tape	2.00	60.0	11.0
1T415	557 Premium Grade Duct Tape	3.00	60.0	14.0
950S-2	950G Cloth Duct Tape	2.00	60.0	10.0
5T550	Flexfix 555 UL181B-FX Film Tape, Acrylic Adhesive, Orientated Polypropylene Film Backing	2.00	120.0	3.1
5T560	Flexfix 555 UL181B-FX Film Tape, Acrylic Adhesive, Orientated Polypropylene Film Backing	2.00	120.0	3.1
3X50ASF	FSK Facing Duct Tape	3.00	50.0	5.5
1525CW6	FSK Facing Duct Tape	6.00	50.0	5.5

SHURTAPE DUCT TAPE

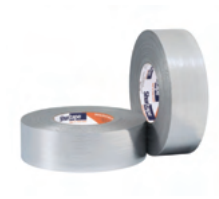

232032

Part No.	Description	Roll Length (yd)	Thickness (Mils)
232032	Shurtape AF 975CT Cold Temp Aluminum Foil Tape	50.0	4.0
199722	Shurtape PC 609 Duck Pro Co-Extended Cloth Duct Tape	60.0	10.0
146956	Shurtape SF 682 Shurflex Metalized Duct Tape	60.0	10.0
208144	Shurtape SF 683 Shurflex Metalized Cloth Duct Tape	60.0	10.0
PC857-2	Shurtape PC 857 UL181B-FX HVAC Duct Tape	60.0	14.0
164686	Shurtape DC 181 UL181B-FX Flex Duct Film Tape Metalized	120.0	2.7
205330	Shurtape DC 181 UL181B-FX Flex Duct Film Tape Metalized	120.0	2.7

Continued on next page

Part No.	Description	Roll Length (yd)	Thickness (Mils)
232035	Shurtape AF 975CT Cold Temp Aluminum Foil Tape	50.0	4.0
202873	Shurtape VP 410 Vinyl Film Tape	50.0	5.25
232036	Shurtape AF 984CT Cold Temp FSK Tape	50.0	7.4
138664	Shurtape SF 682 Shurflex Metalized Duct Tape	60.0	10.0
208574	Shurtape SF 683 Shurflex Metalized Cloth Duct Tape	60.0	10.0
101014	Shurtape PC 857 UL181B-FX HVAC Duct Tape	60.0	14.0
207113	Shurtape DC 181 UL181B-FX Flex Duct Film Tape Metalized	120.0	2.7

METALIZED DUCT TAPE


252-2-PRINT

Part No.	Roll Length (yd)	Thickness (Mils)
252-2-PRINT	60.0	11.0
252-3-PRINT	60.0	11.0

HVAC PREMIUM GRADE


1T355

The Nashua 345 Premium Cloth Tape is a versatile and high-quality duct tape designed for a variety of applications across multiple industries. Featuring a high-quality polyethylene coated cloth backing and a strong adhesive, this tape ensures excellent performance in demanding environments. It is ideal for HVAC, maintenance, construction, and general repair applications.

Part No.	Description	Width (In)	Roll Length (yd)	Thick-ness (Mils)
1T355	345 Premium Grade 2" Duct Tape, Rubber Adhesive, Polyethylene Coated Cloth Backing, Silver	2.00	60.0	12.0
1T375	345 Premium Grade 3" Cloth Tape, HVAC	3.00	60.0	12.0
1T365	345 Premium Grade 2" Cloth Tape, HVAC	2.00	60.0	12.0

CLOTH DUCT TAPE


1T380

GAFFERS

- Backing: waterproof, lusterless, vinyl film with a carrier of cotton cloth
- Adhesive: natural rubber
- Tensile strength: 44 lbs./in. width
- Adhesion to stainless steel: 55 oz./in. width
- Thickness: 12.5 mils
- Elongation: 5%
- Maximum temperature: 200°F

Nashua Tape Products

Part No.	Width (In)	Roll Length (yd)	Thickness (Mils)
1T380	2.00	60.0	12.5


1T400

UL STANDARD 181B-FX

An extra heavy-duty, waterproof, polyethylene-coated, cloth duct tape that has superior tack and a rubber adhesive. Designed to meet or exceed all UL standard 181B-FX requirements; has its listing and product identification code printed on the backing.

Nashua Tape Products

Part No.	Description	Width (In)	Roll Length (yd)	Thickness (Mils)
1T400	UL181B-FX Cloth duct tape	2.00	60.0	14.0
1T410	UL181B-FX Cloth duct tape	2.00	60.0	14.0
1T420	UL181B-FX Cloth duct tape	2.00	60.0	14.0
957B	957B UL181B-FX Premium Black Cloth Duct Tape	2.00	60.0	14.0


1T500

CONTRACTOR GRADE, METALIZED

- Backing: metalized, waterproof, polyethylene film with a carrier of polyester/cotton blend cloth
- Adhesive: natural rubber
- Tensile strength: 27 lbs./in. width
- Adhesion to stainless steel: 55 oz./in. width
- Thickness: 11 mils
- Elongation: 10%
- Maximum temperature: 200°F
- Applications: HVAC industry to seam, connect, splice, patch and seal sheet metal and flex duct, rigid duct boards, air vents, insulation, fibrous filter banks and pollution collection systems

Nashua Tape Products

Part No.	Width (In)	Roll Length (yd)	Thickness (Mils)
1T500	2.00	60.0	11.0
1T510	3.00	60.0	11.0


1599B

VENTURETAPE® FLEXIBLE DUCT CLOSURE TAPE 1599B

UV resistant polypropylene film tape which performs well in either subzero cold or warm temperatures. Meets or exceeds all requirements of UL181B-FX related to closure systems for flexible air ducts and air connectors. 25/50 rated for Flame Spread and Smoke Development.

3M

Part No.	Width (In)	Roll Length (yd)	Thickness (Mils)
1599B	1.90	120.0	3.0

ALUMINUM FOIL TAPE



200664

SHURTAPE FOIL TAPE

Nashua Tape Products

Part No.	Description	Roll Length (yd)	Thickness (Mils)
200664	Shurtape SF 685 Shurmastic Butyl Foil Tape	100.0	17.0
200666	Shurtape SF 685 Shurmastic Butyl Foil Tape	100.0	17.0
111163	Shurtape SF 686 Shurmastic Butyl Foil Tape	100.0	17.0
183431	Shurtape UL181B-FX SF 686 Shurmastic Foil Tape	100.0	17.0
204763	Shurtape AF 982 Maximum Strength Linered FSK Tape	50.0	6.6



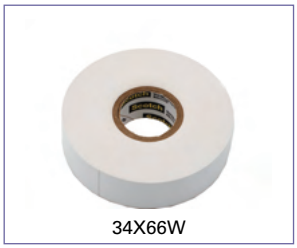
1T125

COLD WEATHER PREMIUM FOIL TAPE

UL181A & B New & Improved - Cold Weather, Premium Grade, Printed Foil Tape (with Liner) For Hvac Applications. Recommended For Use On UL Listed Fiberglass Duct Board In Accordance with Manufacturer's Installation Instructions. Ideal For Permanent Flexible Seals. Meets UL181 A-P Standard For Use As A Closure Material On Fiberglass Duct Systems and UL181 B-FX Standards For Use On Flexible Air Ducts and Closures.

Nashua Tape Products

Part No.	Description	Width (In)	Roll Length (yd)	Thickness (Mils)
1T125	324A UL181B-FX Cold Weather Premium Foil Duct Tape	2 1/2	60.0	4.0
1T130	324A UL181B-FX Cold Weather Premium Foil Duct Tape	3.00	60.0	4.0
0810-3	0810 UL181B-FX Aluminum Foil Tape	3.00	60.0	7.2


34X66W

GENERAL PURPOSE

- Backing: 2.0-mil, dead soft aluminum foil
- Adhesive: high tack, natural rubber, all weather
- Tensile strength: 14 lbs./in. width
- Adhesion to stainless steel: 129 oz./in. width
- Thickness: 4.9 mils
- Elongation: 2%
- Service temperature range: -20°F to 150°F
- Applications: HVAC industry to seal and join fiberglass duct insulation; can be applied to both smooth and scrim surfaces
- UL Std. 723

Nashua Tape Products

Part No.	Description	Roll Length (yd)	Thickness (Mils)
34X66W	Scotch 35 Vinyl Color Coding Electrical Tape	66.0	7.0
D88-SUPER	Scotch Premium Vinyl Electrical Tape 88-Super	66.0	8.5
0817-2	817 Aluminum Foil Tape	50.0	6.5
0817-3	817 Foil Tape	50.0	3.2
3520CW	3520CW HVAC Aluminum Foil Tape	50.0	3.7



0827-3

FOIL SCRIM/MAXIMUM STRENGTH

- Backing: aluminum foil/fiberglass scrim/kraft paper
- Adhesive: high tack, natural rubber
- Tensile strength: 25 lbs./in. width
- Adhesion to stainless steel: 60 oz./in. width
- Thickness: 7.0 mils
- Elongation: 1%
- Service temperature range: -25°F to 250°F
- Applications: sealing seams in scrim reinforced foil duct insulation
- Use in all weather conditions and when a maximum strength tape is needed

Nashua Tape Products

Part No.	Description	Roll Length (yd)	Thickness (Mils)
0827-3	0827 Foil Scrim Tape	150.0	15.2

ELECTRICAL TAPE


34X66E

3M

Part No.	Width (In)	Color	Roll Length (yd)	Thickness (Mils)
34X66E	3/4	Black	66.0	7.0
34X72G*	2.70	Black	66.0	7.0
34X66B	3/4	Blue	66.0	7.0
34X66BR	3/4	Brown	66.0	7.0
34X66G	3/4	Gray	66.0	7.0
34X66GR	3/4	Green	66.0	7.0
34X66O	3/4	Orange	66.0	7.0
34X66P	3/4	Pink	66.0	7.0
34X66R	3/4	Red	66.0	7.0
34X66Y	3/4	Yellow	66.0	7.0

SPECIAL PURPOSE TAPE



12X600T

TEFLON TAPE

- Withstands alkalies, acids, oils and solvents
- For thread sealing iron, stainless steel, copper, brass, plastic, glass or rubber pipes

Berry

Part No.	Width (In)	Color	Roll Length (yd)	Thickness (Mils)
12X600T	1/2	White	5.0	3.0



5T530

BUTYL MASTIC

Indoor/outdoor mastic, water resistant sealer and general purpose sealer on a roll. Seal flex, ductboard, sheet metal.
Backing: paintable, printed, 2-mil aluminum foil.
Adhesive: non-flammable butyl rubber.
Service Temperature: -20°F to 220°F.

- UL Std. 723

Nashua Tape Products

Part No.	Width (In)	Color	Thickness (Mils)
5T530	2.00	Aluminum	17.0
5T540	3.00	Aluminum	17.0

INSULATION



N5

TAPE

- Tape roll: 30' length, 2" wide, 1/8" thick
- 12 rolls/case

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Width (In)	Color
N5	Pressure sensitive insulation foam roll	6.40	Gold
NRP1	Rubber asphalt insulation cork roll	8.20	Black



INSULATION



NRP2

SEALING COMPOUND

- Nondrying synthetic polymer
- Off white color

Part No.	Description	Case Qty*
NRP2	Sealing Gum, 2 Lb. Slug/Box	24
NRP38	Sealing Cord, 3/8" Bead, 25'	12



IF1212

AEROSOL

- Economically insulates, seals, bonds and retrofits. Stops air infiltration
- Meets major building codes
- Cured foam can be trimmed, sanded and painted
- Excellent shelf life-guaranteed quick delivery
- Tack-free bond in less than 10 minutes
- Fully cured bead in approximately 1 hour
- HCFC formula
- UL classified

Part No.	Container Size	Yield Linear Ft 3/8" Bead	Yield ($Ft.^3$)	Case Qty*
IF1212*	12 Oz.	780	0.6	12
FF24*	24 Oz	1560	1.2	12

HAND CLEANER



436687

SCRUBS™

- Famous Scrubs hand cleaner towel

Part No.	Container Size	Description	Case Qty*
436687	72 Sheets	Hand cleaner towel, "Scrubs TM", 72 sheets	6


2215

CLENHANDS

Premium, citrus-based lotion hand cleaners, that quickly dissolve dirt, grease, fuel oil, pipe dope, resin, ink, paint, glue, rubber gasket and tile cements and many other hard-to-remove soils.

- Environmentally friendly: biodegradable, VOC-compliant.
- For use with or without water

Part No.	Container Size	Description
2215	15 Fl. Oz. bottle	Hand cleaner, orange pumice, 15 oz.

ROOFTOP UMBRELLA


MUKIT

ROOFTOP UMBRELLA

Stay in the shade on scorching rooftops, and keep tools dry during rainy repairs

- Includes umbrella (MUUMB) and magnetic base (MUBASE)
- Waterproof umbrella with durable & flexible fiberglass ribs
- Base Swivels and locks
- Heavy duty magnet attaches securely to any metal housing and holds up to 210 lbs

Part No.	Description
MUKIT*	Magnetic umbrella, 60" inch open width

WATER HOSE FITTING


58125

HEAVY DUTY GARDEN HOSE

- 5/8" premium heavy duty garden hose

Part No.	Description	Length (Ft.)
58125	Garden hose, heavy duty, 5/8"	25.0
58150	Garden hose, heavy duty, 5/8"	50.0
58175	Garden hose, heavy duty, 5/8"	75.0

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

WATER HOSE FITTING


A810

SPRAY NOZZLE

Slip Seal's Adjust-A-Power Nozzle produces 50% more power than twist grip nozzles. Adjust-A-Power adjusts from positive off, to a needle spray and to a power jet stream. This precision ball-bearing design is ideal for cleaning air-conditioner coils. Gasketed from tip to intake, it cannot leak like conventional style nozzles.

- Solid brass
- 50% more power
- Leakproof guarantee

Part No.	Description
A810*	Slip Seal's Adjust-A-Power nozzle, solid brass


129128

CONNECTION MALE THREAD

- Male tapered iron pipe thread or hose thread to male hose thread

Part No.	Description	Connection Type
129128*	Water hose thread adapter	1/2 MPT x 3/4 MHT
1291212	Water hose thread adapter	3/4 MPT x 3/4 MHT
127	Water hose thread adapter	3/4 MHT x 3/4 MHT


128S8

CONNECTION FEMALE SWIVEL

- Female tapered iron pipe thread or hose thread to female swivel hose thread

Part No.	Description	Connection Type
128S8	Water hose thread adapter swivel	1/2 FPT x 3/4 FHT
128S12	Water hose thread adapter swivel	3/4 FPT x 3/4 FHT
132S*	Water hose thread adapter swivel	3/4 FHT x 3/4 FHT


573C

ACCESSORIES

Part No.	Description
573C*	Spray Nozzle, Lever Type, Zinc
01CW*	Hose Washer, 10 Pc.
215Z	Hose Thread Cap, Pr.

HEAT GUN


69092

Used for:

- Faster vacuums
- Curing/drying
- Coil defrosting
- Drying out condensation in motors, clutches, etc.

Kit includes gun, adapters and case.

Part No.	Description
69092*	Heat Gun Kit 115V. 600° and 1000°F Settings

MATERIAL TRANSPORT


A1HIJACK

ECONOMY

Simple frame, sectional lift post, lever type jack mechanism.

- Maximum load: 500 lbs.

Part No.	Description	Max. Height (Ft.)	Max. Load (Lbs)
A1HIJACK	Material lift, economy, simple frame, sectional lift post, lever type jack mechanism	15	500

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


512A

UL LISTED

Medium duty 20" x 24" platform area. Model 512 has stabilizing bars, model 520 has outrigger and guy wire assemblies. Two handle crank winch assembly with automatic brake.

- Maximum load 500 lbs.

Part No.	Description	Max. Height (Ft.)	Max. Load (Lbs)
512A	Material lift, UL listed, stabilizing bars	12	500
520A	Material lift, UL listed, outrigger and guy wire assemblies	20	500


2355N

SPRAY PAINT

Use to clearly identify refrigerant type in systems. Aerosol containers are 16 oz. size. Sold individually, but come in cartons of 6. 2300 Series are spray-any-way cans while 2700 Series are regular all purpose.

Part No.	Color
2355N	Flat Black
2387N	OSHA Yellow
2389N	OSHA Red

MARKING



04030

PAINT MARKER

Pump Action Fiber Tip Paint Markers
Industrial grade paint marker. Designed to perform in the toughest environments imaginable. Bright marks on hard to mark surfaces including: metal, wood, plastic, leather, glass, stone, cardboard and more. Quick dry. indoor and outdoor use. Use in shop, at home for crafts, or for any other fun project. Stock markers come in a bullet tip.

Part No.	Color
04030*	White
04031*	Yellow
04033*	Black
04034*	Red
04035*	Orange
04036*	Blue
04037*	Green
04041*	Purple

SHOP VAC


SWV5

SHOP VAC

- Container Capacity: 5GAL
- Wet & Dry Cleaning
- Efficient Dust Shaking Function
- Powerful Suction and Blowing Functions
- Compact & Light Weight for Easy Operation
- Double Dust Filtration System
- 360 degree Rotation Castor Wheels
- 4.5 Meter Long POwer Cord
- Auto Shut OFF FLoat Valve
- On Board Accessories
- Easy Carry Handle

Part No.	Description
SWV5	5 Gallon Wet Shop Vac

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FAN


PJSFM2

RECHARGEABLE CLAMPING FAN

- The Rechargeable Clamping Fan runtime is High: up to 5 hours, and Low: up to 12 hours, for all day comfort
- A magnetic base, powerful clip, and a hang hole allow this fan to be placed anywhere
- 360-Degree pan and rotation allow for perfect airflow control
- The clip is shaped to grip tightly to studs or conduit
- Small form factor keeps this 13-Inch tall fan portable and light while delivering powerful airflow
- Convenient USB-A to USB-C charging with an included charging cable
- Durable 6.6-Foot (2 m) drop protection
- Powerful wind to keep you cool, no matter how hot your environment

KLEIN TOOLS

Part No.	Description
PJSFM2	Rechargeable Clamping Fan



FIRE EXTINGUISHER


466142MTL

FIRE EXTINGUISHER

Suitable for use on Class A (trash, wood & paper), Class B (liquids & gases) and Class C fires (energized electrical equipment). The Recreational unit is fitted with a pressure gauge that provides at-a-glance status, is manufactured from lightweight aluminum and a tough aluminum valve assembly.

- Model FA110G
- Multipurpose Dry Chemical
- UL listed
- UL rated 1-A,10-B:C
- U.S.C.G, DOT approved
- Supplied with retention strap bracket
- Monoammonium Phosphate

Kidde

Part No.	Description
466142MTL	2.5 lb Commercial ABC Dry Chemical Multi-Purpose Fire Extinguishor

FOLDING CART


F3SCBL

SITERUNNER 3 SHELF FOLDING JOBSITE CART

- No assembly required - set up your jobsite cart straight out of the box
- Designed for tradesman end use applications holding up to 100 pounds per shelf or 300 pounds total
- T-channel accessory rail allows you to effortlessly attach a variety of accessories and tools improving productivity and organization
- Palm grip handles optimize control and maneuverability on the jobsite while doubling as a hanging notch for tool belts, hard hats, cords, and more
- Acts as a mobile workstation at the perfect height
- Lift handle enables you to easily lift the cart over object providing seamless movement over obstacles on the job site
- Access tools efforlessly with the integrated tool strap
- Transport with ease using the carry handle
- Durable, non-marring 5" casters with 2 swivel and 2 fixed casters with brakes to ensure stability and control
- 8" compact folded profile makes transporting and storage easy
- Riveted design provides a stronger bond than fasteners

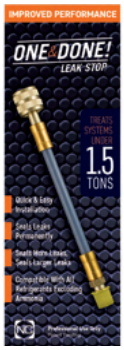
NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
F3SCBL	3 Shelf Heavy Duty Folding Jobsite Cart - 300-lb Capacity









Cleaners **Page**
- Condenser Coil 1146-1148
- Evaporator Coil 1148-1149
- All Purpose 1149-1150
- Ice Machine Cleaner 1150-1151
- Tube Flush Cleaner 1151-1152
- Cleaning Solvent 1152

Bacteria Control
- Bacteria/Fungi Control 1153-1155

Corrosion Control
- Scale/Corrosion Control 1156-1158
- Contamination Control 1159

Leak Detection
- Leak Detection 1160

Aerosol
- Aerosol 1161

Glycols
- Freeze Protection 1162

Tools & Clean-Up **Page**
- Cleaner Application 1163-1164
- Power Cleaning 1165-1167
- Fuel Heating 1167

Sealants
- Thread Sealant 1168-1170
- Refrigerant Leak Sealant 1170-1171
- Thread Lubricant 1171
- Gasket/Sealant 1171-1172
- Silicone Sealant 1172-1173
- Fire Stopping Sealant 1173
- Sealer & Adhesive 1173-1174
- Epoxy 1174-1175
- Duct, Roof 1175

Miscellaneous
- Thawzone 1176
- Oil Additive 1176
- Air Freshener 1176

CONDENSER COIL



KLEENBRITE1

KLEENBRITE

KleenBrite's acid-based condenser cleaner and brightener is formulated to make difficult jobs easy. Fast acting and safe when used as directed, it makes dirty fins and coils look like new.

Not recommended for indoor use.

Part No.	Description	Container Size	Case Qty*
KLEENBRITE1	Condenser coil cleaner, Kleen Brite, acid, 1 gal.	1 Gal.	4
KLEENBRITE2	Condenser coil cleaner, Kleen Brite, acid, 2-1/2 gal.	2 1/2 Gal.	2
KB55GNC	Condenser coil cleaner, Kleen Brite, acid, 55 gal.	55 Gal.	1



ALKAKLEEN1

ALKAKLEEN

A strong non-acid condenser cleaner and brightener. AlkaKleen's heavy duty foaming formula can be diluted to cover larger areas economically. Removes heavy grease, dirt, smoke, film and insects.

Not recommended for indoor use.

Part No.	Description	Container Size	Case Qty*
ALKAKLEEN1	Condenser coil cleaner, Alka Kleen, 1 gal.	1 Gal.	4
ALKAKLEEN2	Condenser coil cleaner, Alka Kleen, 2-1/2 gal.	2 1/2 Gal.	2
AN55GNC	Condenser coil cleaner, Alka Kleen, 55 gal.	55 Gal.	1



KLEENFOAM1

KLEENFOAM

An extra heavy foaming outdoor non acid cleaner. Thick foam removes stubborn deposits from outdoor air cooled condenser coils.

Not recommended for indoor use.

Part No.	Description	Container Size	Case Qty*
KLEENFOAM1	Condenser coil cleaner, Kleen Foam, 1 gal.	1 Gal.	4
KLEENFOAM2	Condenser coil cleaner, Kleen Foam, 2-1/2 gal.	2 1/2 Gal.	2
N4895	Condenser coil cleaner, Kleen Foam, 19 Oz. Aerosol, NSF	19 Oz. Aerosol, NSF	6



429108

NU-BRITE®

A nonacidic, alkaline-based product for cleaning and brightening air cooled condensers.

Not recommended for indoor use.

- Cuts through grease and grime better than acids
- Foams like acids
- Brightens as well as acids
- Safer than acids
- Biodegradable

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
429108	Condenser coil cleaner, Nu-Brite®, 1 gal.	1 Gal.	4
429105	Condenser coil cleaner, Nu-Brite®, 2-1/2 gal.	2 1/2 Gal.	1
429190	Condenser coil cleaner, Nu-Brite®, 4x Concentrate, 1 Qt.	1 Qt. 4x Concentrate	12
429118	Condenser Coil Cleaner, Nu-brite®, 18 oz.	18 Oz.	6



412008

ALKA-BRITE®

A nonacid, alkaline-based product for brightening and cleaning air cooled condensers. It contains the best available detergents and surfactants to quickly penetrate and remove greasy soils and oxidation.

For cleaning and brightening air cooled condensers, permanent filters and other finned heating and cooling coils.

Not recommended for indoor use.

- Foaming helps lift out stubborn soils
- Does not contain any acid
- Biodegradable
- Alka-Brite® has been authorized by the U.S.D.A. for use in federally inspected meat and poultry establishments

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
412008	Condenser coil cleaner, Alka-Brite®, 1 gal.	1 Gal.	4
412005	Condenser coil cleaner, Alka-Brite®, 2-1/2 gal.	2 1/2 Gal.	1
412090	Condenser coil cleaner, Alka-Brite®, 4x Concentrate, 1 Qt.	1 Qt. 4x Concentrate	12


419008

CAL-GREEN

Clean the condenser unit with an all natural environmentally friendly coil cleaner. This non-foaming, not-toxic cleaner is outstanding for removing dirt and grime which hinders heat transfer. By cleaning the fins with Cal-Green you restore the unit's efficiency while being environmentally responsible. This biodegradable product is free and clear of dyes, fragrances, and masking agents.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
419008	Condenser coil cleaner, Cal-Green®, 1 gal.	1 Gal.	4


KLEENSAFERTU

KLEENSAFE

- Eco-friendly, neutral pH cleaner and degreaser
- Powerful formula, removes tough dirt, grease and grime
- Biodegradable solvents and surfactants, non-corrosive, safe on roofs
- Recognized for safer chemistry under the EPA's safer choice program
- NSF registered for use in food processing areas

EPA/Safer Choice recognition does not constitute endorsement of this product. The Safer Choice label signifies that the product's formula, as National Refrigeration Products has represented it to the EPA, contains ingredients with more positive human health and environmental characteristics than conventional products of the same type. EPA/Safer Choice relies solely on National Refrigeration Products, its integrity and good faith, for information on the product's composition, ingredients and attributes. EPA/Safer Choice has not independently identified, that is, via chemical analysis, the ingredients in the product formula, nor evaluated any of National Refrigeration Products non-ingredient claims. EPA/Safer Choice provides its evaluation only as to the product's human health and environmental characteristics, as specified in the Safer Choice Standard and based on currently available information and scientific understanding.

NC

Part No.	Description	Container Size	Case Qty*
KLEENSAFERTU	Condenser coil cleaner, KleenSafe, 1 qt.	1 Qt.	12
KLEENSAFE1	Condenser coil cleaner, KleenSafe, 1 gal.	1 Gal.	4


417808

FOAM-BRITE™

This new generation condenser coil cleaner will provide the ultimate in foaming, brightening and cleaning. It can be used to replace the more dangerous HF acid-based products for condenser coil cleaning.

- Maximum foaming, nonacidic, condenser coil cleaner

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
417808	Condenser coil cleaner, Foam-Brite™, 1 gal.	1 Gal.	4
417805	Condenser coil cleaner, Foam-Brite™, 2-1/2 gal.	2 1/2 Gal.	1


437224

TRI-CLEAN 2X

TriClean 2x is equipped to assist in the annual cleaning of outdoor of residential or light commercial air conditioning or heat pump coils. The product can safely be used on coated and non-coated fin or microchannel designed coils. The concentrated formula is tailored to its integrated sprayer packaging, resulting in time savings of sprayer preparation/ clean-up or the cost of sprayer maintenance from usage wear. Each container is capable of cleaning three 5 ton coils, making its use cost effective.

- Quart sprayer with hose connector

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
437224	Tri-Clean 2x, quart sprayer with hose connector	1 Qt.	4


429508

NU-SOLVE

Nu-Solve NR is a ready-to-use, detergent based cleaner to aid in the removal of efficiency-robbing grime on the condenser coil. The cleaner is VOC, CARB compliant, contains no Prop. 65 compounds and ships as a non-hazmat product.

- Ready-to-use, non-rinse condenser coil cleaner
- Non-foaming, detergent based formula for emulsifying grime
- Formulated where water availability for rinsing the coil is problematic or solvent based aerosols are not desired
- For situations when its desirable to have less diluted cleaner on the roof
- Plastic, Metal and Rubber Safe

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
429508	Condenser coil cleaner, Nu-Solve, 1 gal.	1 Gal.	4

CONDENSER COIL



RT330V

VENOM PACK CONDENSER

Venom Pack Condenser Cleaner is a high foaming pure concentrate liquid designed to tackle the toughest soils. The proprietary blend of specialty detergents will liquify heavily embedded grease and grime to restore heat transfer and increase the efficiency of the coil.

- Non-Toxic & No Odor
- High Foaming
- Aluminum and Micro channel safe
- Lightweight pure concentrate

REFRIGERATION TECHNOLOGIES

Part No.	Description	Container Size	Case Qty*
RT330V	Venom pack condenser coil cleaner, pure concentrate, 36 oz. pouch	36 Oz.	6

EVAPORATOR COIL



RT310V

VIPER BRIGHTENER

Restore neglected and extremely dirty coils to their original performance with our pure concentrate, non-acid, high foaming coil brightener. This product's alkaline nature will strip coils of heavily embedded grease and grime, restoring the metal to a bright "like new" shine. Our coil brightener is maximum strength and should only be used by skilled HVAC/R professionals.

REFRIGERATION TECHNOLOGIES

Part No.	Description	Container Size
RT310V	Venom Pack Coil Brightener	33 Oz



EGP

EVAP-GARD PLUS

Cooling coil disinfectant cleaner for use on small air conditioning cooling coils and refrigeration equipment, refrigerator or freezer evaporative coils.

NC

Part No.	Description	Container Size
EGP	Evap-Gard Plus Disinfectant, 19 Oz Aerosol	19 Oz.



AEG32

EVAP-GARD

One-step hospital grade disinfectant, mildewstat, deodorizer and cleaner that is specifically registered with the EPA for use on coils and in drain pans of air-conditioning/ refrigeration equipment and heat pumps to kill odor-causing micro-organisms and to inhibit the growth of mold and mildew. For use on cooling coils and drain pans, grills, registers, vents, and other hard, inanimate surfaces.

NC

Part No.	Description	Container Size
AEG32	Evap-Gard HVAC coil and drain pan disinfectant, 32 Oz.	32 Oz.
AEG1	Evap-Gard HVAC coil and drain pan disinfectant, 1 Gal.	1 Gallon



RT320V

VENOM PACK EVAPORATOR

Venom Pack Evaporator Cleaner is a non-rinsing pure concentrate liquid designed to remove stubborn grease, grime, and dirt while destroying odors caused by bacterial growth. This 2 in 1 product eliminates the need for a separate cleaner and treatment, saving you time and money. The proprietary blend of enzymes digest odor causing bacteria while the specialty detergents attack heavily embedded grease and grime to restore heat transfer and increase the efficiency of the coil.

REFRIGERATION TECHNOLOGIES

Part No.	Description	Container Size	Case Qty*
RT320V	Venom pack evaporator coil cleaner, pure concentrate, 36 oz. pouch	36 Oz.	6



KLEENCOIL1

KLEEN COIL

Kleen Coil is a non-acidic and self-rinsing evaporator cleaner that safely cleans away grime, oil grease and dirt quickly. Kleen Coil is easy to use because no rinsing is required.

NC

Part No.	Description	Container Size	Case Qty*
KLEENCOIL1	Evaporator coil cleaner, Kleen Coil, 1 gal.	1 Gal.	4
KLEENCOIL2	Evaporator coil cleaner, Kleen Coil, 2-1/2 gal.	2 1/2 Gal.	2



EP1Q

EVAP-PLUS

- Use as Non-Rinse if condensate water running
- Eco-friendly solvent and surfactants quickly emulsify stubborn contamination
- Metal Safe - will not damage aluminum or other metals
- Ideal at cleaning evaporator and heating coils, window units, air cooled condensers and permanent air filters
- Economical Alternative to Aerosol Coil Cleaners
- Replaces High/Low pH cleaners for rooftop applications
- Neutral pH - Non-Corrosive

Part No.	Description	Container Size	Case Qty*
EP1Q	Evaporator coil cleaner, Evap-Plus, 1 quart	1 Qt.	12



419108

EVAP-GREEN

Evap-Green's outstanding cleaning ability will quickly remove the dust, dirt and debris that is typically found on evaporator coils. During the cleaning process, dirt, oils and greases are emulsified and are quickly removed from the coil restoring the unit's efficiency. Evap-Green is a biodegradable product and does not contain dyes, fragrances, or masking agents.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
419108	Evaporator coil cleaner, Evap-Green, 1 Gal.	1 Gal.	4



416808

EVAP POW'R®

Evap Pow'r® is a no rinse product formulated for cleaning indoor evaporator coils. The green-colored, slightly alkaline liquid is metal-safe and therefore will not harm the coil's metal surfaces when left in contact with them in a no-rinse application. It cleans and emulsifies the most stubborn soils and deposits, and is biodegradable as well as U.S.D.A. authorized.

Nu-Calgon

- Concentrate: dilute 3:1

Part No.	Description	Container Size	Case Qty*
416808	Evaporator coil cleaner, Evap Pow'r®, 1 gal.	1 Gal.	4
416805	Evaporator coil cleaner, Evap Pow'r®, 2-1/2 gal.	2 1/2 Gal.	1



413508

CALCLEAN®

- Does not require rinsing where there is sufficient condensate being pulled from the air. The cleaning solution may be left on the evaporator coil without rinsing (use at a 10:1 ratio).
- Cleans without metal loss
- Biodegradable
- Has been authorized by the U.S.D.A. for use in federally inspected meat and poultry establishments

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
413508	Evaporator coil cleaner, Calclean®, 1 gal.	1 Gal.	4
413506	Evaporator coil cleaner, Calclean®, 2-1/2 gal.	2 1/2 Gal.	1



416675

EVAP FRESH™

Evap-Fresh™ is a ready-to-use, non-abrasive, one-step cleaner and disinfectant for evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils and refrigeration equipment. It is the first product of its kind in the industry to receive EPA registration for such claims. Evap-Fresh™ has been tested effective via AOAC methodology against a wide variety of organisms

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
416675	Evaporator coil cleaner/disinfectant, Evap Fresh™, 18 oz aerosol	18 Oz. Aerosol	12
416608	Evaporator coil cleaner/disinfectant, Evap Fresh™, 1 gal.	1 Gal.	4



MK1GNC

MULTIKLEEN

Use MultiKleen to clean condenser or evaporator coils, metal cabinets, refrigeration parts and components. Strong yet gentle for metal when used as directed. This is a product that does it all.

Not recommended for indoor use.

Part No.	Description	Container Size	Case Qty*
MK1GNC	All purpose coil cleaner, Multi Kleen, 1 gal.	1 Gal.	4
MK2GNC	All purpose coil cleaner, Multi Kleen, 2-1/2 gal.	2 1/2 Gal.	2

ALL PURPOSE


418624

GREEN CLEAN™

Green Clean™ is a pleasantly scented, concentrated all-purpose cleaner designed for the rapid removal of grime and other heavy soils. A safer, effective, alternative to toxic cleaners, bleaches and solvents

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
418624	All purpose coil cleaner, Green Clean™, 1 qt.	1 Qt.	12
418608	All purpose coil cleaner, Green Clean™, 1 gal.	1 Gal.	4


414308

HD CALCLEAN®, EAC

Special HD CalClean® is an extra-strong liquid detergent specifically designed for cleaning electronic air filters. Electronic air filters can become coated with tobacco tars and other deposits that are very difficult to remove with ordinary detergents. It will rapidly clean dirt, grease, dust and tars from the plates on these filters and it will not corrode or tarnish aluminum or other metals when used at the recommended concentrations.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
414308	All purpose coil cleaner, HD calclean®, EAC, 1 gal.	1 Gal.	4
414306	All purpose coil cleaner, HD calclean®, EAC, 2-1/2 gal.	2 1/2 Gal.	1


437175

TRI-POW'R™

The ideal environmentally friendly and biodegradable cleaner that's perfect for cleaning air-cooled condensers, evaporator coils, permanent filters, fan blades, motors and other general cleaning needs. Tri-Pow'r HD is a heavy duty alkaline cleaner that is very unique when compared to other similar alkaline coil cleaners.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
437175	All purpose coil cleaner aerosol, Tri-Pow'r™, 19 oz.	19 Oz.	12
437190	All purpose coil cleaner, Tri-Pow'r™, 4x concentrate, 1 Qt.	1 Qt.	4
437188	All purpose coil cleaner, Tri-Pow'r™, 1 gal.	1 Gal.	4


0523G

RENEWZ™

Renewz is a non-acid cleaner for finned, air-cooled condenser coils. Its surfactant-aided foaming action lifts contaminants, including cooking greases & tobacco stains on air filters. Biodegradable & can be used for electronic air filters.*HAZMAT-MUST SHIP LTL*

RECTORSEAL

Part No.	Description	Container Size
0523G	All purpose coil cleaner, Renewz™, non-acid, condenser, foaming, 1 gal.	1 Gal.

ICE MACHINE CLEANER



H301

ICE MACHINE CLEANER

- Removes slime and scale buildup and restores efficiency of ice machines
- Fast acting, non-foaming
- Nickel Safe
- Meets Manitowoc spec. GES-6 for ice machine cleaner
- All food-grade ingredients

Hydro Balance

Part No.	Description	Container Size	Case Qty*
H301	Ice machine cleaner, H.B. 30, 1 gal.	1 Gal.	4


420907

ICE GUARD PLUS

KEEPS YOUR ICE MACHINE CLEAN

- Dramatically reduces ice machine maintenance and cleaning
- Treatment will last up to 3 months under mormal conditions
- All ingredients meet FDA guidelines.
- One step installation - simply place in ice machine water sump after cleaning. No activation or flushing is required.
- Enhances quality of ice
- Reduces maintenance costs

Nu-Calgon

Part No.	Description
420907	Ice Guard Plus


NS16OZ

NICKEL SAFE

Nickel safe ice machine cleaner removes limescale deposits from nickel plated evaporators. Safe to use on stainless steel surfaces.

NC

Part No.	Description	Container Size
NS16OZ	Ice machine cleaner, nickel safe, 16 oz.	16 Oz.
NS1G	Ice machine cleaner, nickel safe, 1 gal.	1 Gal.


428734

NICKEL SAFE

A specially formulated food-grade product for removing scale deposits from ice machines having nickel-plated evaporators.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
428734	Ice machine cleaner, nickel safe, 16 fluid oz.	16 Fluid Oz.	24
428708	Ice machine cleaner, nickel safe, 1 gal.	1 Gal.	4


NIMC

GENERAL PURPOSE

Removes scaled deposits from ice machine storage bins, extrusions.

NC

Part No.	Description	Container Size
NIMC	Ice machine cleaner, general purpose, 8 oz.	8 Oz.
NIMC1G	Ice machine cleaner, general purpose, 1 gal.	1 Gal.


420747

GENERAL PURPOSE

A food-grade liquid acid that is fast acting yet safe to use in equipment. It does not give off any harsh fumes or contain chlorine or chlorides that would attack stainless steel.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
420747	Ice machine cleaner, general purpose, 8 fluid oz.	8 Fluid Oz.	12
420708	Ice machine cleaner, general purpose, 1 gal.	1 Gal.	4


421134

LIQUID SANITIZER

A sanitizing concentrate formulated exclusively to sanitize hard nonporous surfaces to eliminate odors and slime growths. No rinsing is required. Designed for general use in ice machines, ice cream dispensing equipment and other food processing equipment.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
421134	Ice machine liquid sanitizer, 16 fluid oz.	16 Fluid Oz.	24


NCKFSKIT

KLEENFLUSH

Designed to flush air conditioning and refrigeration systems. Use KleenFlush for:

- Line sets in preparation for retrofitting
- Systems after burnout
- Systems before new component installation
- Non-flammable
- Non-ozone depleting
- Low residue formulation: easily removed by vacuum
- Removes oil/grease/acid/moisture

NC

Part No.	Description
NCKFSKIT	KleenFlush Starter Kit, Includes: Can Actuator, Hose, Flush Injection Tool, Can of Flush
NCLKFS16	Liquid KleenFlush, 16 Oz. Can
1NCKFS	KleenFlush 1 Lb. Can
2NCKFS	KleenFlush 2 Lb. Can

TUBE FLUSH CLEANER


KFITT

KLEENFLUSH ACCESSORIES

Part No.	Description
KFITT	Flush Injection Tool Tips: Line Set Tool, 1/4" MFL Adapter
KFCA	Flush Can Actuator
KFIT	Flush Injection Tool



430008

RX-11 FLUSH®

An ozone-safe solvent engineered specifically for flushing refrigeration and air conditioning systems. Used exactly like the old R-11 flushing process, R11 is strong enough to rinse away particulate, sludge, carbon residues, acids, oils and water.

- Packaged in a convenient pressurized container.
- Safe, nontoxic and nonflammable
- Low boiling point enhances complete evaporation
- Modern packaging minimizes solvent exposure to hands, eyes, and lungs

Nu-Calgon

Part No.	Description	Application
430008*	Starter Kit, 1 lb. can, Gun, Hose, Valve	1 Lb., 3 to 4 Tons
430009	System Flush, 1 Lb.	1 Lb., 3 to 4 Tons
430011	System Flush, 2 Lb.	2 Lb., 5 to 7 Tons
430010	Start Up Pack, 2 x 2 Lbs., Access Valve	4 Lb., to 14 Tons
430015	System Flush, 13 Lb.	13 Lb., to 50 Tons
430026	System Flush, 26 Lb.	26 Lb., over 50 Tons

CLEANING SOLVENT


CRC7140

HEAVY DUTY DEGREASER II

The Heavy Duty Degreaser II is a non-chlorinated, zero VOC formula for cleaning where chlorinated solvents are prohibited. It has a high flashpoint of 180 degree F. This degreaser effectively removes soils with no residue build-up. Please exercise caution on plastics.

DIVERSITECH

Part No.	Description	Container Size
CRC7140	Heavy Duty Degreaser II, 15 Oz	15 Oz.


NDS17OZ

DEGREASER

- Environmentally friendly
- Non-conductive to 29,000 volts
- Fast drying, leaves no residue

Part No.	Description	Container Size
NDS17OZ	HD Degreasing Solvent, Aerosol	14 Oz.


GREZOFF

GREZ-OFF® DEGREASER

Breakthrough degreaser/cleaner with blockbuster power. Cuts heavy grease and soil quickly. GREZ-OFF® does not contain any petroleum solvents, phosphates or acids and is nonflammable.

- Authorized by USDA for use in federally inspected meat and poultry plants

ClenAir Nu-Calgon

Part No.	Description	Container Size	Case Qty*
GREZOFF	Grez-Off® degreaser, 32 oz.	32 Oz.	12
22701	Grez-Off® degreaser, 1 gal.	1 Gal.	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BACTERIA/FUNGI CONTROL


RT800S

VIPER PAN AND DRAIN TREATMENT

Viper Pan and Drain Treatment is a unique gel that contains detergents, enzymes, and silicone. The detergents and enzymes will penetrate and break through the solid layers of slime, sludge, sediment, and remove odor causing bacteria. The silicone coats the pan, p-trap, and drain piping, lubricating to improve flow and prevent future soil adhesion. The slow dissolving gel will outperform and outlast conventional tablets and strips that do not remove these common materials and allow new growth over time, causing restrictions and blockage.

- Enzymes Break Down Slime and Sludge
- Spray Application Ensures Full Coverage
- Leaves Behind a Non-Stick Surface
- Available in Gallons for larger applications and quart re-fills

Part No.	Description	Container Size	Case Qty*
RT800S	Viper pan and drain treatment, 1 Qt spray	32 Oz.	12
RT800G	Viper Pan & Drain Treatment 1 Gallon	1 GAL	4


429822

POWERZYME

PowerZyme

- Powerful enzymatic formula
- Keeps drains flowing freely
- Eliminates foul and musty odors
- Ideal for A/C condensate pans and drains
- Perfect for food service and kitchen drains
- Easy pour top for any application
- Breaks down fats, oils, and greases
- Safe for systems and non-corrosive
- NSF Approved

Part No.	Description	Container Size
429822	Powerzyme 1Qt.	32 Oz. Quart
429821	Powerzyme 8Oz	8 Oz. Bottle


412634

BIO-FRESH®

Bio-fresh® cd is a ready-to-use bacteriostat, fungistat and deodorizer based upon chlorine dioxide technology. It is recommended for control of bacteria, mold, mildew, fungi and yeasts in IAQ applications. It is safe for fogging and may be applied to occupied space.

- Provides effective microbial control of evaporator coils, condensate pans and surrounding ductwork
- Effective against Legionella bacteria

Part No.	Description	Container Size	Case Qty*
412634	Bacteria/fungi control, Bio-Fresh®, 1 qt.	1 Qt.	12
412638	Bacteria/fungi control, Bio-Fresh®, 1 gal.	1 Gal.	4


429534

PAN-PADS®

The product is a quaternary-based biocide, formulated in tablet form and enclosed in a plastic housing which in turn is sealed ultrasonically to an absorbent white filter pad. Water is absorbed by the pad and wicked to the tablet, resulting in the immediate but controlled release of the biocide.

- Formulated buffering agents help protect pan against corrosion
- Three-month service life, 24 hours per day in all climates

Part No.	Description	Container Size	Application
4295-36	6.5 long x 1.5 wide x 3/8	3.25 Oz.	Up to 5 Tons
429534	2-3/4 long x 2-1/4 wide x 1/2"	3/4 Oz.	Up to 5 Tons
429624	3-3/8 long x 2-1/2 wide x 7/8"	2 1/8 Oz.	Up to 15 Tons
429645	8 long x 2-3/4 wide x .875	6 Oz.	Up to 45 Tons

BACTERIA/FUNGI CONTROL


416524

DRAIN SOLVE

Drain Solve is an alkaline-based drain opener which removes grease, hair, vegetable and other organic matter. It is non-fuming and it will clean and clear drains quickly. Simply pour it down the drain and let it work without fear of noxious fumes or reactions that may squirt corrosive chemicals into face and eyes. This product is NSF registered.

- Perfect for clogged A/C condensate lines as well as kitchen, bathtub, & lavatory drains
- Non-fuming (no rotten egg odor)
- No violent eruptions
- Pours through standing water
- Cuts through grease and organic matter

Nu-Calgon

Part No.	Description	Container Size
416524	Drain Solve, 1 qt.	1 Qt.
416508	Drain Solve, 1 Gal.	1 Gallon


SANICND32

SANI C-N-D™ COIL AND DRAIN PAN DISINFECTANT

EPA registered disinfectant, fungicide, mildewstat and viricide. It is ready-to-use and assures consistent, effective results. Destroys "dirty sock," mildew and other malodors.

May be used on washable hard non-porous surfaces such as: exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.

Contains an EPA registered hard surface disinfectant qualified for use against the coronavirus that causes COVID-19.

DIVERSITECH

Part No.	Description	Container Size
SANICND32	EPA registered disinfectant, fungicide, mildewstat and viricide, 32 Oz Spray	32 Oz.
SANI-CND	EPA registered disinfectant, fungicide, mildewstat and viricide, 1 Gallon	1 Gallon



CDT

DRAIN PAN CONDENSATE TABS

- Easy to use
- Completely soluble
- Non-corrosive

NC

Part No.	Description	Container Size
CDT	Bacteria/fungi control, condensate tabs, 200 tablets	200 Tablets



NL1-8OZ

NU LINE® DRAIN LINE CLEANER

Designed to prevent water damage to ceilings, walls and flooring caused by clogged A/C condensate drains. Formulated to prevent clogs and floods by loosening and removing slime and scum build-up in A/C, refrigeration and drinking fountain condensate drain pans, lines and pumps. Resists further build-up for up to 90 days.

- Non-Corrosive
- Non Fuming
- Ready to Use
- Biodegradable
- Will not harm drain pipes or pans

RECTORSEAL

Part No.	Description	Container Size	Application
NL1-8OZ	Nu Line® drain line cleaner, 8Oz., treats up to 4 tons	8 Oz. Bottle	Treats up to 4 Tons
NL2-32OZ	Nu Line® drain line cleaner, 32 Oz., treats up to 16 tons	32 Oz. Bottle	Treats up to 16 Tons



2001D

PURCOOL™ PAN STRIPS

PurCool™ is a time release product designed to keep condensate pans and drains clean and free flowing preventing costly condensate pan overflows. Place PurCool™ strips in air conditioning and refrigeration condensate pans for up to 6 months of overflow protection.

CleanAir Nu-Calgon

Part No.	Description	Application	Case Qty*
2001D	Condensate pan strip, 1.25 oz, 3" strip, 3 tons	3 Tons	36
PCG5MS	PurCool Green Mini Strips	Up to 5 Tons	12
2003D	Condensate pan strip, 3 oz, 8" strip, 8 tons	8 Tons	36
2009	Condensate pan strip, 9 oz, 24" strip, 24 tons	24 Tons	12



429660

PAN TREAT™

Left untreated, condensate pans can suffer from the build-up of sludge, scum and other accumulations. This build-up can cause odors as well as plugged drains and overflows, which in turn result in water damage. Pan-Treat is formulated with ingredients proven effective in cleaning and preventing these deposits, and its use will eliminate the extra maintenance costs associated with odors, plugged drains and overflows.

Nu-Calgon

Part No.	Description	Container Size
429660	Bacteria/fungi control, Pan Treat™, 200 tablets	200 Tablets



418503

GEL TABS, DRAIN PAN TREATMENT

- Protects drain pan against clogs
- Gel formulation locks tab into place
- Completely dissolves
- Leaves no waxy residue
- Up to 3 months of protection
- Eliminates foul and musty odors

Nu-Calgon

Part No.	Description	Container Size	Application
418503	Gel Tabs, drain pan treatment up to 3 tons	12 Tabs	Treats up to 3 tons
418504	Gel Tabs, drain pan treatment up to 3 tons	200 Tabs	Treats up to 3 tons
418505	Gel Tabs, drain pan treatment up to 5 tons	6 Tabs	Treats up to 5 tons
418515	Gel Tabs, drain pan treatment up to 15 tons	One Tab	Treats up to 15 tons



FLOWPLUS6

FLOW-PLUS

- Long-term release
- Dissolves completely
- Economical, no waste
- Biodegradable
- Non-Corrosive
- Environmentally Safe
- Non-Hazardous

Specialty Chemical
A DiversiTech Company

Part No.	Description	Container Size	Case Qty*
FLOWPLUS6	Treats 3 to 5 tons	6 Oz. Clamshell	24
SCM184	Treats 5 to 20 tons	10 Oz. Tube	18
FLOWPLUS125	Treats 20 to 50 tons	1.25 Lb. Tube	8
SCM183	"Mini-Tabs", Treats 1/2 to 3 tons	25 Tabs/Jar	24
FLOWPLUS200	"Mini-Tabs", Treats 1/2 to 3 tons	200 Tabs/Bottle	4



SCALE/CORROSION CONTROL



NSR1G

LIQUID SCALE DISSOLVER

- Removes severe build up of lime and scale in cooling towers and evaporative condensers
- When dissolved, pH color indicator is activated
- Contains metal corrosion inhibitors

NC

Part No.	Description	Container Size	Case Qty*
NSR1G	Scale Dissolver and Inhibitor	1 Gal.	4
NSR5G	Scale Dissolver and Inhibitor	5 Gal.	1



416708

ECO-LYME, SCALE REMOVAL/ DESCALING

Formulated descaler with unparalleled performance coupled with an excellent eco-profile. Active ingredient is found in nature.

- Unique and versatile performer for the HVAC/R market. Descaling applications include cooling towers, evaporative coolers, hot water boilers, processing equipment and more.
- New chemistry rapidly removes scale and rust
- Significantly safer on metals than competing hydrochloric acid based descalers. Chemistry accomplishes task and prolongs equipment life.
- Safe on carbon steel, aluminum, stainless steel and copper.
- Readily biodegradable per OECD 301A, a recognized method for establishing biodegradability.
- Odorless, making it safer to handle.
- Low foaming chemistry for added safety.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
416708	Eco-Lyme scale removal, 1 gal.	1 Gal.	4
416705	Eco-Lyme scale removal, 5 gal.	5 Gal.	1



RYD04

RYDLYME BIODEGRADABLE DESCALER

RYDLYME biodegradable industrial descaler is used to safely and efficiently dissolve tough mineral deposits, such as water scale, lime scale, calcium, rust and even struvite. It is fortified with a complex formula of wetting and penetrating agents that dissolve mineral deposits into solution for quick and easy disposal. RYDLYME is the only product of its kind that is truly non-toxic and non-hazardous. It can be safely handled by personnel (you can even hold it in your hand without injury) and there are NO transportation or handling restrictions. RYDLYME is certified by an EPA-approved testing laboratory as a fully biodegradable and environmentally non-hazardous chemical, even at 100% concentration without neutralization. RYDLYME is as much as 12x faster than other chemical descalers, with most cleaning applications completed within a few hours. It can be circulated through equipment or system without arduous and costly dismantling. RYDLYME descaler is all-encompassing and will not erode, pit, oxidize or have other detrimental effects on materials such as iron, copper, rubber, stainless steel, plastic, brass, glass, titanium, nickel and other materials associated with water-based equipment.

Apex Engineering Products Corporation

Part No.	Description	Container Size
RYD04	RYDLYME Biodegradable Descaler, 1 gal.	1 Gal.
RYD05	RYDLYME Biodegradable Descaler, 5 gal.	5 Gal.
RYD55	RYDLYME Biodegradable Descaler, 55 gal.	55 Gal.



433008

LIQUID SCALE DISSOLVER

For removing scale and corrosion from cooling tower and cooling water systems.

- A liquid hydrochloric acid scale remover
- Concentrated and fast acting
- Quickly dissolves iron oxide deposits
- Contains low-foaming corrosion inhibitors
- 1 gal. will dissolve 3 lbs. of scale
- pH color indicator

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
433008	Liquid scale dissolver, 1 gal.	1 Gal.	4
433005	Liquid scale dissolver, 5 gal.	5 Gal.	1


434008

LIQUID SCALE INHIBITOR

This unique organic scale inhibitor is extremely effective, particularly when the water is extremely hard and high in alkalinity. No. 340 liquid scale inhibitor is stable and does not form any orthophosphate sludge. There is no breakdown up to the boiling point, even in highly alkaline or acid solutions. A feed rate of 1/2 gal. per month is recommended for each 30 tons with a bleedoff rate of 1 gal. per minute.

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
434008	Liquid scale inhibitor, 1 gal.	1 Gal.	4
434005	Liquid scale inhibitor, 5 gal.	5 Gal.	1


438701

VITAL-FLO TANKLESS WATER HEATER DESCALER KIT

A complete service tool for descaling tankless water heaters. It consists of a 1/6 hp submersible descaler pump, a set of five foot 3/4" female hose threaded assemblies, and an 8 fl. oz. formulated descaler solution packaged in a lidded 4 gallon chemical resistant container. The pump and hose assemblies in the kit are designed for repeated use for ongoing descaling requirements. The lid on the canister has a port that allows the hose assemblies and electrical cord to be fed through the lid while the lid is fastened to the canister. The solution is available separately and packaged so each bottle is appropriate for a typical service call.

Nu-Calgon

Part No.	Description	Container Size
438701*	Vital-Flo Kit: 1/6 hp Submersible Pump; (2) 5´ hose assemblies; 8 fl. oz. Vital-Flo Descaler	N/A
438702	Vital-Flo Descaler Solution Refill, 8 Oz.	8 Oz.


751905

TY-ION, CLOSED SYSTEM

For treating various boiler water related problems.

- 5 gallon pails

Nu-Calgon

Part No.	Description	Formulation
751905	Sludge, Oxygen, Corrosion Protection	Low Pressure Steam Boilers, B14A
753705	Corrosion Protection	Closed System Chilled or Hot Water, B20



759705

TY-ION, COOLING SYSTEM

Ty-Ion C70 is an all-organic liquid scale, deposit and corrosion inhibitor for use in open recirculating cooling water systems, evaporative condensers and air washer systems. It provides excellent protection for both the ferrous and nonferrous metal components of the systems. The patented polymer is extremely effective in controlling phosphate-based scales and is also effective in dispersing iron oxide, silt, mud and clay to facilitate removal through the bleedoff.

Nu-Calgon

Part No.	Description	Container Size
759705	Ty-ion, cooling system, liquid scale, deposit, corrosion inhibitor, 5 gal.	5 Gal.


414905

CAL-TREAT 233

Soft, low alkalinity waters are hungry and tend to eat up condensers and piping in water-cooled air conditioning and refrigeration systems. Put a stop to corrosion problems with Cal-Treat 233, the most effective corrosion inhibitor known for cooling water systems.

As a general rule this treatment should be used where the make-up water has a total alkalinity of below 30 parts per million or where there is definite evidence of corrosion.

Nu-Calgon

Part No.	Container Size
414905	5 Gal.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SCALE/CORROSION CONTROL



419002

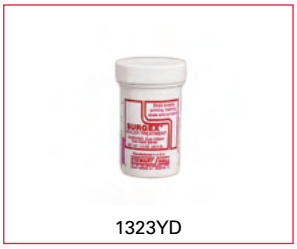
HUMIDI-PRO

Humidi-Pro is designed for humidifiers using up to 25 gallons per day, and will inhibit scale for one season. Install Humidi-Treat on the water line that supplies water directly to the humidifier. Equipped with John Guest fittings.

Operating temperature, min./ max, 40° - 80° F

Nu-Calgon

Part No.	Description
419002*	Humidifier Treatment


1323YD

BOILER WATER TREATMENT

RECTORSEAL

Part No.	Description	Container Size
1323YD	Surgex™, Surge, Foam Prevention in Steam Boilers, Concentrate	1 1/2 Oz.
1309E	8-Way™, Complete Boiler Water Treatment, Scale, Corrosion, Foam	1 Qt. Bottle



436488

MICROMET® PLATES

Micromet plates inhibit scale formation by holding the scale-forming minerals in solution long enough to be carried away through the bleed-off. They also form a microscopic, thin protective film on metal surfaces to reduce corrosion.

- Low cost treatment
- One charge lasts 5-6 months
- Nonstaining
- Treated water will not harm grass and plants
- Authorized by the U.S.D.A. for use in federally inspected meat and poultry establishments

Nu-Calgon

Part No.	Description	Container Size
436488	Scale inhibitor, Micromets® plates, 5 lb.	5 Lb.


46030

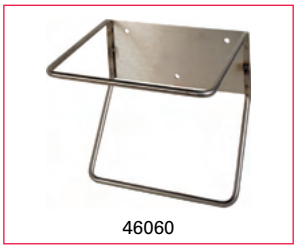
ACID PUMP

Specially designed for circulating hydrochloric acid or strong sulfamic acid cleaning solutions through scaled water-cooled condensers, heat exchangers, water heater coils, water lines, coffee urns and other water handling equipment. Can also be used for agitating or mixing chemical solutions.

- All parts made of acid-resistant materials
- Double seals on shaft
- Completely submersible
- Compact 4 1/2" x 2 5/8" x 4 1/4"

Nu-Calgon

Part No.	Description
46030	Acid Pump
46040*	Acid Pump Hose Kit


46060

CONTAINER BRACKET

Use to set up chemical feed systems using chemical container and drip feeder.

Nu-Calgon

Part No.	Description
46060	Liquid Container Bracket, 1 Gal.


4299T8

PUMP PROTECTOR

Protects seasonally operated pumps during shutdown.

- Ends pump impeller binding
- Protects against corrosion
- Safe for all types of water pumps
- Requires no special rinsing at startup
- This product has been authorized by the U.S.D.A. for use in federally inspected meat and poultry plants

Nu-Calgon

Part No.	Description	Container Size	Case Qty*
4299T8	Pump protector, 10 oz.	10 Oz.	12

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CONTAMINATION CONTROL



AA20Z

AC/R ACID-AID

- Universal acid scavenging solution, works with all AC/R refrigerants and lubricans (MO, POE and AB)
- Twice as concentrated as other formulas
- No harmful effects to AC/R system components
- Applications: after compressor burnouts, preventive maintenance, to protect recovery equipment
- 2 Fl. oz. per gallon of oil (10 lbs of refrigerant, 5 tons of cooling, or 10 HP)

Part No.	Description	Container Size	Oil Usage
AA20Z	AC/R Acid-Aid, 2 Oz.	2 Oz.	MO, POE and AB


406056

A/C RESTART™

A/C ReStart™ is a specially formulated treatment when retrofitting an R-22 air conditioning system to an alternative such as R-407C, R-427A or other. A/C ReStart™ is a POE lubricant based treatment with Acid Scavenger® Technology designed to boost oil return within the system while addressing trace acids when converting to R-410A is not an economic option for the owner.

- Eliminates oil change-out by boosting oil return
- Rx-Acid Scavenger technology addresses trace acids at retrofit
- Quick one-time disposable injector
- Treats up to 5 tons; for systems 5-10 tons, use two treatments

Part No.	Description
406056	A/C Restart™ connect inject, with Rx-Acid scavenger
415501	A/C Restart™ connect injector tool, with Rx-Acid scavenger



45004

ACID AWAY®

Circulates quickly throughout the system and chemically neutralizes acids that are left in an air conditioning or refrigeration system after a burnout occurs.

Part No.	Description	Container Size	Oil Usage
45004	Acid away®, mineral, alkylbenzene, 4 oz.	4 oz.	Mineral, Alkylbenzene
45009	Acid away®, POE, 4 oz.	4 oz.	POE



QT2501

QWIKSHOT® REFRIGERANT AND OIL TREATMENT

Developed to solve the problem of treating acid without leaving disruptive residues. Neutralization acid treatment must leave a residue of some kind and residues can cause problems. Instead of neutralizing, QwikShot® Refrigerant and Oil Treatment quickly flushes any harmful acids into the filter-drier of an operating system.

- Guaranteed safe for ALL systems
- OEM Approved
- Works with all refrigerants, oils, and filter-driers
- Produces no residue or contamination
- One bottle treats up to a 6-ton unit and removes up to 26 drops of moisture

Part No.	Description	Container Size
QT2501	QwikShot®, 0.5 Fl. Oz.	0.5 Fl. Oz.



430102

ACID SCAVENGER

Rx-Acid Scavenger provides a better, more convenient way to neutralize orscavenge acid in refrigeration, air conditioning systems... after burnouts or during normal on-going systems maintenance. Normal dosage rate is 2 fl. oz. of Rx-Acid Scavenger for 1 gallon of system oil. Acid Scavenger is formulated for use with all lubricants... mineral, alkylbenzene, and polyol ester. Use after system burnout to scavenge acid products in the system, or change a system with Rx-Acid Scavenger to neutralize acid conditions should they develop.

Part No.	Description
430102	Acid Scavenger, Unpressurized Can, 2 oz.
430105	Acid Scavenger, Pressurized Can, 3.8 oz.

LEAK DETECTION


RT150S

BIG BLU SUBZERO

Big Blu SubZero is the most durable product of its kind for leak detecting under extreme cold conditions. The temperature rating is down to -30°F. Bubbles will keep forming where other low temp products give out, freeze or become gelatinous.

Part No.	Description	Container Size	Case Qty*
RT150S	Leak detector, "Big Blu" low temperature, 1 qt. spray	1 Qt. Spray	12
RT150G	Leak detector, "Big Blu" low temperature, 1 gal.	1 Gal.	4


RT100S

"BIG BLU"

The Original Big Blu leak detector is used by OEM's and industry professionals worldwide. This is the only bubble solution capable of detecting gas leakage down to 0.65 ounces per year. Use on any gas including Oxygen.

Part No.	Description	Container Size	Case Qty*
RT100S	Leak detector, "Big Blu", 1 qt. spray	1 Qt. Spray	12
RT100G	Leak detector, "Big Blu", 1 gal.	1 Gal.	4


NCB

GAS LEAK DETECTOR

- NSF Registered
- Regenerating bubbles
- Ultra sensitive to micro leaks

Part No.	Description	Container Size
NCB	Blue Spray Bottle, Ultra-Sensitive	32 Oz.
NCBG	Blue Refill, Ultra-Sensitive	1 Gal.
NCIB	Blue Spray Bottle, Ultra-Sensitive, Low Temp	32 Oz.
NLDB55G	Blue Leak Detector 55 Gal Drum	55 Gal Drum


NLDC

GAS LEAK DETECTOR

NRP leak detectors are designed for fast and easy location of gas leaks. They are easy to use because of their high viscosity and foaming characteristics. NRP Blue leak detector can be used down to -30°F. NRP Fluorescent leak detector is well suited for poorly lit areas. NRP Clear leak detector is extra thick to stay in place and can be used down to -5°F.

Part No.	Description	Container Size
NLDC	Clear, Dauber	8 Oz.
NLDF	Fluorescent Dauber	8 Oz.


418053

GAS LEAK DETECTOR

Nu-Calgon chemical gas leak detectors have the proper viscosity in order to remain on the surface and facilitate the formulation of the bubbles. They are noncorrosive to the metal surfaces of the piping and fittings and are functional at low temperatures (freeze-protected) as well as high or elevated temperatures

- Regular leak detector not recommended for use with oxygen systems
- Regular leak detector and Cal-Blue will not leave flourescent residue affecting black light systems

Part No.	Description	Container Size	Case Qty*
418053*	Regular Leak Detector	6 Oz.	24
418224	Cal-Blue Leak Detector	1 Qt.	12
418208	Cal-Blue Leak Detector	1 Gal.	4
418324	Cal-Blue Low Temperature	1 Qt.	12
418308	Cal-Blue Low Temperature	1 Gal.	4
418424	Fluorescent Leak Detector	1 Qt.	12
418408	Fluorescent Leak Detector	1 Gal.	4


TR4

TRACE®

A concentrated red dye penetrant in a mineral oil base that is completely harmless to refrigeraton, air conditioning and hydraulic equipment.

Part No.	Description	Container Size	Case Qty*
TR4	Leak detection, Trace®, red dye, 4 oz.	4 Oz.	12
TR16	Leak detection, Trace®, red dye, 16 oz.	16 Oz.	6

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

AEROSOL

NATIONAL CHEMICALS



N4830

Part No.	Description	Container Size
N4830	Electric Contact Cleaner	11 Oz.
N4840	Silicone Spray	11 Oz.
N4890	Evap Kleen No Rinse Evap Coil Cleaner	19 Oz.
WHA	Wasp and Hornet Spray	14 Oz.

NU-CALGON



408203

Part No.	Description	Container Size
408203	Electrical Contact Cleaner	16 Oz.
408375	Degreasing Solvent ef	17 Oz.
408403	Food Grade Silicone	10 3/4 Oz.
408703*	Zinc Galvanizing Spray	16 Oz.
408004*	Spray Adhesive	11 Oz.
429275	Wasp and Hornet Killer	17 Oz.
429650*	Pan-Spray™ Leak Sealer, White	16 Oz.
429651*	Pan-Spray™ Leak Sealer, Black	16 Oz.
417175	Evap Foam® No Rinse Evaporator Coil Cleaner	18 Oz.
412775	Blackhawk Expanding Foam Coil Cleaner for Evaporators/Condensers	18 Oz.
429075*	Nu Blast® Condenser Coil Cleaner	18 Oz.
47760	Talon Flexible Aerosol Precision Wand, for use with Evap Foam No Rinse, Blackhawk and PenetrateHD, 27" Long	N/A
408391	Duracoiil 11Oz Coil Protectant Gray	11 Oz.

RECTORSEAL


0905DA

Part No.	Description	Container Size
0905DA	Penetrant-Anti-Seize Lubricant	12 Oz.

VIPER HD


RT375A

Viper HD is a concentrated version of the popular Viper Aerosol. Both products are based on a new detergent blend that has proven to match the cleaning performance of acid and alkaline cleaners without the associated hazards. Viper HD does not contain butyl solvent, glycol ethers, phosphates, silicates or other ingredients that are toxic and water pollutants. Viper HD is typically diluted 5:1 Use it in low or high pressure equipment or dilute 20:1 as a spray and wipe.

Part No.	Description	Container Size	Case Qty*
RT375A	Food Grade Coil Degreaser	18 Oz.	12
RT390G	Condenser coil cleaner, Viper HD, 1 gal.	1 Gal.	4

PB BLASTER



16PB

B'laster PB Penetrating Catalyst is a powerful, concentrated penetrant that frees stubborn rusted or immobilized parts by releasing the surface tension that causes them to stick. PB magnetically creeps up, around and into tight, hard-to-reach cavities, then converts into a high lubricant, loosening troublesome nuts, bolts, rusted joints, pipe threads and other frozen parts in record time! B'laster PB's non-evaporating formula then stays on the surface of the part to protect against rust and corrosion.

Part No.	Description	Container Size
16PB	Penetrating Catalyst	11 Oz.

DEFENDER COIL COATING


RT640A

Defender Coil Coating is a solvent borne thin film epoxy resin that will bond to all metals. The product will air dry under normal conditions to complete hardness in less than 30 minutes. A one time application is all that is necessary to protect coils fins and other metals from corrosive environments. Defender is supplied as a Clear Coating to comply with current Federal and State EPA/VOC requirements.

Part No.	Description	Container Size
RT640A	Defender Coil Coating	15 Oz.

FREEZE PROTECTION



5PG96

PROPYLENE GLYCOL

Propylene glycol heat transfer fluid contains a performance additive that prevents metal corrosion, lowers maintenance costs and improves heat transfer. Because propylene glycol has a low toxicity level, it can be used in equipment that has contact with food products and beverages.

- Inhibited
- Contains Dowfrost™ heat transfer fluid
  Trademark of the Dow Chemical Company DOW or an affiliated company of DOW.

NC

Part No.	Container Size	Glycol Concentration (%)	Comments
5PG96	5 Gal.	96	No Dye
55PG96	55 Gal.	96	No Dye
1PG70	1 Gal.	70	Blue Dye
5PG70	5 Gal.	70	Blue Dye
55PG70	55 Gal.	70	Blue Dye
5PG40	5 Gal.	40	Blue Dye
55PG40	55 Gal.	40	Blue Dye
55PG45	55 Gal.	45	Blue Dye
55PG35	55 Gal.	35	No Dye
55PG35D	55 Gal.	35	Blue Dye

PROPYLENE GLYCOL

Use in applications involving possible contact with food, beverages, ground water or potable water supplies. Low acute oral toxicity. Provides freezing protection down to -50°F. More viscous at lower temperatures than ethylene glycol.

- Must be diluted for optimum efficiency and freeze protection

NC

Part No.	Container Size	Comments
PROPYL55G	55 Gal.	Not Inhibited



418907

ETHYLENE GLYCOL

Freeze-Therm® inhibited ethylene glycol formulation. Used for heating and air conditioning, refrigeration, pavement radiant heating, waste heat recovery, sidewalk snow melting systems, ice rinks and engine cooling. Provides freezing points down below -50°F while maintaining superior heat transfer. Inhibited formulations protect most construction materials found in HVAC applications.

Nu-Calgon

Part No.	Container Size	Case Qty*
418907*	1 Gal.	6
418905*	5 Gal.	1
418901*	55 Gal.	1



SCM12305

PROTEK EG™ HEAT TRANSFER FLUID

Inhibited ethylene glycol based industrial heat transfer fluids and antifreeze designed to provide freeze and burst protection, excellent thermal conductance, protection against corrosion and fouling and long term stability in closed recirculating water loops.
ProTek EG™ fluids have an operating range of -60°F to 250°F, with burst protection to -100°F. ProTek EG™ solutions are pumpable down to the freeze points listed.
ProTek EG™ is suitable for ice and thermal storage systems.

Specialty Chemical
A DiversiTech Company

Part No.	Container Size	Case Qty*
SCM12305	5 Gal.	1
SCM12355	55 Gal.	1



GLY32

GLYCOMETER™

An accurate and economical tool for ensuring proper levels of glycol treatment in HVAC fluid systems. Removes guess work and prevents wasteful over-treatment. All Glycometers™ have metal body with cushioned eyepiece, focus adjustment, and a rubber hand grip. Included with each is a calibration screwdriver and calibration fluid, a plastic pipette, optical cleaning cloth, and a rugged carrying case.

ClenAir by Nu-Calgon

Part No.	Temperature (°F)
GLY32	-60 to 32

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CLEANER APPLICATION



81671

IK FOAM PRO SPRAYERS

Range of sprayers equipped with the maximum performance in terms of safety and ease of use. Manufactured for the generation of dry and long lasting foam. Designed for use with chemical agents with surfactant properties (surface active).

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Use with	Working Tank Capacity
81671	1/2 Gallon Sprayer	Acids, alkalines and alcohol substances	25 Oz.
81676	IK FOAM Pro 2 sprayer, 64 Oz	Foaming agents	42 Oz.
82676	IK FOAM Pro 12 sprayer, 2.6 Gallons	Foaming agents	1.58 Gallons
82676800	Fan nozzle	82676	N/A
82671870	1.5 m reinforced PVC hose	IK Multi Pro 12, IK MULTI Pro 9, IK FOAM Pro 12, IK MULTI 6, IK MULTI 9, IK MULTI 12, IK MULTI 12 BS	N/A
81676800	Filter (10 units)	81676	N/A



47730

CLEAN CONNECT SPRAYER

The Clean Connect Sprayer is uniquely developed for the use of Nu-Brite 4x (429190), Alka-Brite Plus 4x (412090) and Tri-Pow'r HD 4x (437190) concentrate coil cleaners for cleaning outdoor air cooled HVAC/R coils. The bottles in each of these cleaners contain a specific dilution tip insert assembly to where the Clean Connect Sprayer simply is hooked to the bottle and go

Nu-Calgon

Part No.	Description
47730	Clean Connect Sprayer



415002

CLEAN GUARD

Professional maintenance bag for wall-mounted ductless systems.

- For use when cleaning indoor coils with Nu-Calgon cleaners
- Easiest install on the market – installs in seconds!
- Durable braided elastic band with wheel lock adjusts in seconds for a desired fit
- Heavy duty design
- Eight-foot drain line for Clean Guard (XL)
- 360° coverage prevents overspray on wall
- Reusable

Nu-Calgon

Part No.	Description	Wgt (Lbs.)
415002	Mini-split bib, XL, for units 1.5 to 3 tons. Adjustable, approx. 62? wide.	0.85



82672

IK MULTI PRO SPRAYERS

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Use with	Working Tank Capacity	Application
82672	IK MULTI Pro 9 heavy duty sprayer, 2.1 Gallons	Optimal: Foaming agents Suitable: Solvent-based pesticides Alcohols Oils, solvents and petroleum by-products	1.58 Gallons	Cleaning, Disinfection, Automotive, Detailing, Building, Industry and Maintenance, Pest Control, Epidemics and Virus Control
82671	IK MULTI Pro 12 heavy duty sprayer, 2.64 Gallons	Optimal: Foaming agents Suitable: Solvent-based pesticides Alcohols Oils, solvents and petroleum by-products	2.11 Gallons	Cleaning, Disinfection, Automotive, Detailing, Building, Industry and Maintenance, Pest Control, Epidemics and Virus Control
82671871	Elbow with nozzle for IK Multi Pro Sprayers	IK Multi Pro 12, IK MULTI Pro 9, IK MULTI 6, IK MULTI 9, IK MULTI 12, IK MULTI 12 BS	-	-

CLEANER APPLICATION



839701

IK MULTI PRO BACK SPRAYER

Lightweight and comfortable back sprayer for transport and use. Resistant to acids and designed for professional use with the most aggressive chemical agents for various sectors.

- All plastic parts and washers resistant to most acids and solvents
- Translucent tank with level indicator
- Easy assembly and taking apart for cleaning and maintenance, tool free
- Carrying handle and straps for carrying over shoulder
- Clamp for lever
- Tank lid with anti-drip
- Large opening with filter for easy filling and cleaning
- 20 inch extension lance available as an accessory
- Adjustable padded straps
- Liquid shaker inside
- Supplied with adjustable cone spray nozzle and even fan spray nozzle

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Use with	Working Tank Capacity	Application
839701	IK MULTI 12 backpack sprayer, 3.37 Gallons	Optimal: Foaming agents Suitable: Solvent-based pesticides Alcohols Oils, solvents and petroleum by-products	3.37 Gallons	Cleaning, Disinfection, Automotive, Detailing, Building, Industry and Maintenance, Pest Control, Epidemics and Virus Control


47740

COIL GUN

A hose-end sprayer that features 4 different mix ratio settings designed for coil cleaners. Utilizes a 2 qt. capacity bottle and includes a foam wand as well as quick disconnect capability.

Nu-Calgon

Part No.	Description	Working Tank Capacity
47740*	Hose Nozzle Sprayer	2 Qt.
47741*	Coil Gun Probe, Long, 90° Direction Spray	N/A


ESP007

TOMMY GUN

2 quart compression sprayer made out of high pressure impact polyethylene. Equipped with adjustable spray nozzle, the Tommy Gun is light weight and easy to use.

ESP ENERGY SAVING PRODUCTS

Part No.	Description	Working Tank Capacity
ESP007	"Tommy Gun" Compression Sprayer.	2 qt.


N4768Q

HAND SPRAYER

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
N4768Q	1 Quart Hand Sprayer
955690	Nozzle Body, N1985
N956090	Poly Nozzle, N1985


CN03

CONDENSERNEEDLE®

- Connects to standard garden hose
- Force dirt and debris back in the direction it entered - a proven technique for increasing coil cleaning and system efficiency.
- 90° spray wand and 3 gallon per minute flow blasts dirt and grime, won't damage fins and virtually eliminates electrical tripping issues.
- Fits easily through the top of most condenser units, no more hassling to remove the top of the unit.

SPEEDCLEAN

Part No.	Description	Wgt (Lbs.)
CN03	Condenser Needle Garden Hose AC Coil Cleaner, 42" H x 3" W x 3" D	3.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

POWER CLEANING


CJ125

COILJET

- Small, portable design makes it easy to clean HVAC coils in hard to reach areas such as PTAC's, rooftops, evaporators, refrigeration units and attics, where access to power and water is limited.
- Output pressure: 125psi at 0.6 gal./minute
- Input power: 12A, 12v DC deep cycle rechargeable sealed lead acid battery
- Optional 8945 36" Spray Wand with 90° nozzle lets you clean coils from the inside out, forcing dirt and debris back in the direction it entered. Perfect for microchannel coils.
- CJ125 Dimensions: 19" H x10" W x18" D
- CJ125 can hold up to 3.375 gallons of freshwater and 1.75 quart of cleaning solution

SPEEDCLEAN

Part No.	Description	Delivery Pressure (psi)	Wgt (Lbs.)
CJ125*	Portable Pressure Sprayer, 125 psi	125	15.00



CJ125KITSB

COILJET® ACCESSORIES

SPEEDCLEAN

Part No.	Description	Wgt (Lbs.)
CJ125KITSB*	CoilJet Battery with Charger for CJ125	10.00
CJ224	CoilJet Replacement Charger for CJ125	0.92
CJ225	CoilJet Battery Charger with Lugs for CJ125	0.99
CJ9689*	CoiJet Battery for CJ95 / CJ75, 12V/7A	4.86
CJ9613*	CoiJet Battery for CJ125	9.81
CJ9693	CoilJet Battery Charger for CJ95 (Included with unit)	2.00
8924	CoilJet Battery Charger with Lugs	5.00
8944	CoilJet Vehicle Adapter For Charger, 12 Volt Inverter	1.00
8945	Spray wand, 36", 90°	1.00
8945-24	Spray wand, 24", 90°	1.00
8945-48	Spray wand, 48", 90°	2.00
CJ9657	CoilJet 36" Extension Lance Assembly	2.00
CJ9658	CoilJet 48" Extension Lance Assembly	49.00
CJ9659	CoilJet 60" Extension Lance Assembly	2.00
CJ9619	CoilJet Foaming Nozzle Assembly	2.00
CJQDN0004R	CoilJet PinPoint Quick Disconnect Nozzle for CJ95 (Included with unit)	1.00
CJQDN1503Y	CoilJet Pinpoint 15° Quick Disconnect Nozzle for CJ125 (Included with unit)	1.00
CJQDN1504Y	CoilJet Pinpoint 15° Quick Disconnect Nozzle for CJ95 (Included with unit)	3.00
CJQDN45	CoilJet Pinpoint 45° Quick Disconnect Adapter	2.00
CJQDN90	CoilJet Pinpoint 90° Quick Disconnect Adapter	2.00
MSB-KIT	Mini Split Bib® Kit (to clean mini-spli coils, fan blades and more without making a mess)	4.30

Continued on next page


ZPB140

PORT-A-BLASTER™ COIL CLEANING MACHINE

Blast dirt from evaporator and condenser coils with this 11lb. portable powerhouse. It uses a patented, pressure-activated pump to deliver two pressure settings for either indoor or outdoor cleaning.

- Ideal for all evaporator and condenser coil cleaning
- Lightweight for easy carrying
- Rugged housing for rough service & long life
- Includes durable quick-connect hoses, wand, and trigger sprayer
- Great for mini-split indoor Coils and outdoor coils
- On-board storage cabinet for all accessories

Supco

Part No.	Description	Delivery Pressure (psi)	Flow (GPM)	Wgt (Lbs.)
ZPB140*	Portable Pressure Sprayer, 125 psi	140	0.25	11.00


JS400

LOW PRESSURE WASHER

- Direct drive twin plunger pump
- 115 Vac
- Powder coated steel case
- Dimension: 10" W x 9" H x 15" L
- 15' x 1/4" ID hose
- 35' power cord with GFCI

MAXI-VAC inc.

Part No.	Description	Delivery Pressure (psi)	Wgt (Lbs.)
JS400	Low pressure washer, 400 psi, w/ full pressure syphon, fixed nozzle	400	43.00
JS700I	Low pressure washer, 0-700 psi, w/ variable pressure, adjustable syphon and nozzle	0 - 700	50.00

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

POWER CLEANING



PW1150

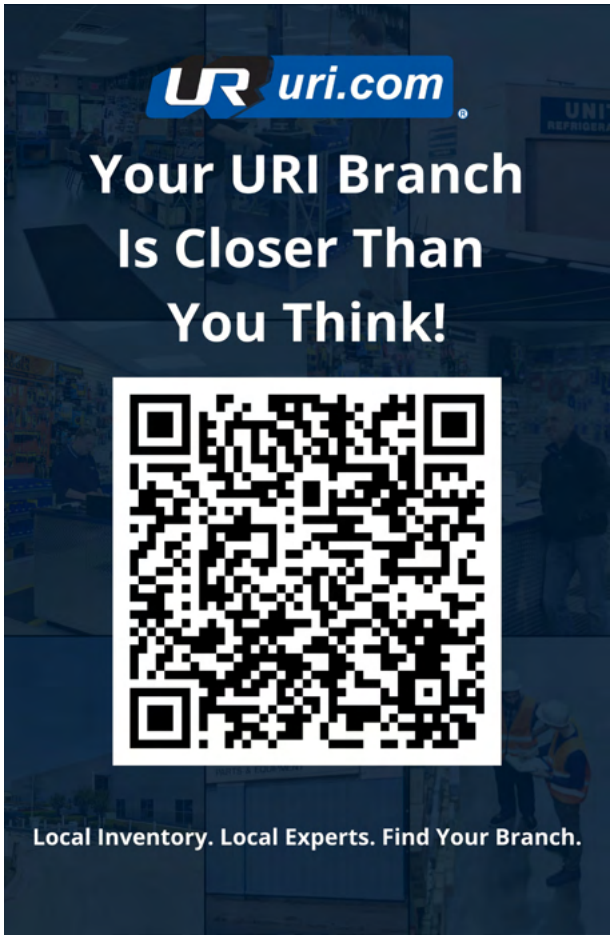
ECONOMY

Economically priced pressure washer designed for intermittent and medium duty applications.

- 115Vac, 10.3 Amps, 60 Hz
- 18' Pressure Hose
- Trigger gun, lance, adjustable nozzle
- 35' Power cord with GFCI plug
- Dimensions: 13"L x 12"W x 18"H

MAXI-VAC inc.

Part No.	Description	Delivery Pressure (psi)	Flow (GPM)	Wgt (Lbs.)
PW1150	Economy medium duty washer, 1.5 GPM	1150	1.5	22.00





JM1200

TUBE CLEANER

Variable speed, constant torque, water flushing tube cleaning systems. Remote switch operation. Flexible shafts and brushes sold separately.

MAXI-VAC inc.

Part No.	Features
JM1200	Constant Speed, Foot Control
JM1800	Variable Speed, Foot Control
JM1800R	Variable Speed, Reversible, Foot Control



1815

FLEXIBLE SHAFT

Compatible with JM1200, JM1800 Series tube cleaners.

- 3/8" diameter
- 1/4"-28 FPT connection

MAXI-VAC inc.

Part No.	Length (Ft.)
1815	15.0
1825R-3/8[1]	25.0
1835	35.0

1 Reversible— use with JM1800R



1519-3/8

TUBE BRUSH, NYLON

Recommended for removing soft deposits (mud, algae, etc.) in straight, nonferrous tubes (copper, brass, plastic, etc.) Brush should be equal to or 1/16" smaller than tube ID.

- 1/4"-28 MPT connection
- Use brass brush for light scale deposits
- 5 brushes per package

MAXI-VAC inc.

Part No.	Brush Diameter (In.)
1519-3/8	3/8
1519-1/2	1/2
1519-5/8	5/8
1529-5/8[1]	5/8

1 Brass


1509

BUFFING TOOL

Adjustable buffing tools are used for removing light to medium scale deposits or for finishing tubes previously roughed out with other cleaning tools. They can be used in both ferrous and nonferrous straight tubes. They can be used only in a clockwise rotation and not recommended for internally enhanced tubes.

MAXI-VAC inc.

Part No.	Tube Range ID (In.)
1509	3/8 to 1/2
1510	1/2 to 5/8

FUEL HEATING



0410N

OIL CLEANUP

Removes fuel oil and other industrial odors. Powder good for cleaning up spills.

RECTORSEAL

Part No.	Description	Container Size
0410N	Odorgon™, Powder, Spill Absorber, Deodorant	1 Lb. Jar
0405DA	Odorgon™, Spray, Liquid Deodorizer	14 Oz. Aerosol

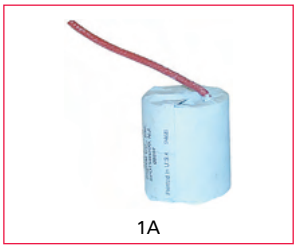


14145

SMOKEYS

DIVERSITECH

Part No.	Description	Container Size
14145*	Smokeys, 150 cu ft, 45 second	45 Second, 150 ft Tester, 10/pack
14175*	Smokeys, 600 cu ft, 75 second	75 Second, 600 ft Tester, 10/pack


1A

SMOKE SIGNAL™

Smoke Signal generates smoke by chemical reaction eliminating costly equipment and time to pinpoint leaks. Smoke tests will effectively and inexpensively reveal leaks in heating and air conditioning duct work, furnaces, fire boxes, exhaust fans and smoke detectors. Smoke Signal is also excellent for observing air flow patterns, evaluating exhaust systems and testing smoke detectors. Smoke Signal items contain no explosive materials.

ESP ENERGY SAVING PRODUCTS

Part No.	Description
1A	4000 cubic feet of smoke in 30 seconds
2B	8000 cubic feet of smoke in 60 seconds
3C	40000 cubic feet of smoke in 180 seconds



SDT25S

SMOKE IN A CAN

The number one choice of professionals to test commercial or residential smoke detectors, approved by industry leaders. Functionally tests all smoke detectors.

ESP ENERGY SAVING PRODUCTS

Part No.	Description	Container Size
SDT25S	Smoke Detector Tester, Smoke in a Can, 2.5 Oz. Aerosol	2.5 Oz. Aerosol Canister



FPPF00161

HOT® WATER DISPERSANT

- 16 oz. HOT® treats 275 gallons

FPPF®

Part No.	Description	Container Size
FPPF00161	FPPF™ HOT® 4-in-1, Water Dispersant, Wax and Gel Control	16 Oz.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THREAD SEALANT


LT1329837

GENERAL PURPOSE THREADLOCKER

LOCTITE® 243 is a general purpose threadlocker of medium bond strength. This threadlocker secures and seal bolts, nuts and studs to prevent loosening due to vibration.

Part No.	Description	Container Size	Case Qty*
LT1329837	General purpose threadlocker, 10 mL	10 mL	10
LT1329467	General purpose threadlocker, 50 mL	50 mL	10


LT24231

REMOVABLE THREADLOCKER

A single component anaerobic threadlocking material, which is thixotropic and develops medium strength. The product cures when confined in the absence of air between close fitting metal surfaces and is particularly suitable for less active substrates such as stainless steel and plated surfaces. Prevents loosening and leakage of threaded fasteners. Particularly suitable for applications such as pump or motor mounting bolts, where disassembly with hand tools is required for servicing.

Part No.	Description	Container Size	Case Qty*
LT24231	Removable threadlocker, 50 mL	50 mL	10
LT24241	Removable threadlocker, 250 mL	250 mL	10


LT27131

HIGH STRENGTH THREADLOCKER

A single component anaerobic threadlocking material, which is thixotropic and develops high strength. The product cures when confined in the absence of air between close fitting metal surfaces. Prevents loosening and leakage of threaded fasteners. Particularly suitable for applications such as cylinder liner studs, where a difficult removal is desired. A high strength, low viscosity threadlocker for fasteners up to 1" diameter.

- Fixture time 10 minutes

Part No.	Description	Container Size	Case Qty*
LT27131	High strength threadlocker, 50 mL	50 mL	10
LT27141	High strength threadlocker, 250 mL	250 mL	10


LT29031

PENETRATING THREADLOCKER

A single component low viscosity anaerobic threadlocking material, which develops medium to high strength. The product cures when confined in the absence of air between close fitting metal surfaces and is particularly suitable for wicking into preassembled components. Prevents loosening and leakage of threaded fasteners. Particularly suitable for applications such as instrumentation where assembly and positioning is required before applying the threadlocker. The very low viscosity allows penetration of the joint by capillary action.

Part No.	Description	Container Size	Case Qty*
LT29031	Penetrating threadlocker, 50 mL	50 mL	10
LT29041	Penetrating threadlocker, 250 mL	250 mL	10


LT54531

HYDRAULIC/PNEUMATIC

A single component, high viscosity anaerobic pipe sealant material. This product cures when confined in the absence of air between close fitting metal surfaces. Used to lock and seal hydraulic and pneumatic fittings, servomechanisms, and fine-filtration systems. Contains no fillers and will not foul valves or fluid filtering systems.

Part No.	Description	Container Size	Case Qty*
LT54531	Hydraulic/pneumatic pipe sealant, 50 mL	50 mL	10


LT55441

REFRIGERANT

Provides maximum solvent resistance on threaded fittings and pipe up to 3" in diameter. It is recommended for refrigeration systems and service with strong chemicals. The sealant is used in place of specialty nonhardening compounds, litharge, glycerine, and sealing tape. Refrigerant sealant is not for slip fitted tube joints. 554 has excellent solvent resistance and withstands temperatures to 300°F.

Part No.	Description	Container Size	Case Qty*
LT55441	Refrigerant pipe sealant, 250 mL	250 mL	10



LT56531

CONTROLLED STRENGTH

A single component, creamy paste-like anaerobic pipe sealant compound. The product cures when confined in the absence of air between close fitting metal surfaces. This industrial grade sealant develops controlled low strength to facilitate disassembly.

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT56531	Controlled strength pipe sealant compound, 50 mL	50 mL	10



LT2087067

HIGH TEMPERATURE

A high performance curing sealant for tapered pipe threads. The product is a creamy paste-like anaerobic compound that cures when confined in the absence of air and between close fitting metal surfaces. The high lubricating properties of this compound prevent galling on stainless steel, aluminum and all other metal pipe threads and fittings.

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT2087067*	High temperature pipe sealant, 50 mL tube	50 mL Tube	10
LT2087069	High temperature pipe sealant, 250 mL tube	250 mL Tube	10



RS25551

NO. 5®

RectorSeal® No. 5® pipe thread sealant is a soft-set, slow drying compound which seals, lubricates, and protects threaded pipe and fittings. It can be pressurized immediately for piping up through 2" and 100 psi (for natural gas, air and water only) and is ideal for application with a wide variety of fluids and gases, including potable water applications. Recommended for use on threaded galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, fiberglass reinforced and PVC pipe. Not recommended for use with ABS pipe or Oxygen.

RECTORSEAL

Part No.	Description	Container Size	Case Qty*
RS25551	Pipe Thread Sealant, No. 5®, 1/2 pt. brush top	1/2 Pt. Brush Top	24
RS25431	Pipe Thread Sealant, No. 5®, 1 pt. brush top	1 Pt. Brush Top	12



31431

TRU-BLU™

RectorSeal® Tru-Blu™ pipe thread sealant with PTFE is a fast-dry, flexible set thread sealant designed for high vibration environments such as refrigeration and industrial applications. It contains PTFE for better thread sealing and for lubrication to facilitate easy break-out. It is also great for use as a positive lock and seal on threaded fasteners.

- Stays flexible - designed for areas of high vibration and thermal expansion/contraction
- Brushable from 20°F to 140°F
- Excellent as a gasket adhesive on flanges
- For use with water (hot or cold)
- Low odor, non-separating
- Lead free and contains no metal
- Easy application - brush top applicator

RECTORSEAL

Part No.	Description	Container Size	Case Qty*
31431	Pipe Thread Sealant, Tru-Blu™, 1 pt. brush top	1 Pt. Brush Top	12



XPANDO

X-PANDO PIPE JOINT COMPOUND

- Expands as it sets, insuring a tight leak proof joint as well as correcting imperfections in pipe threads, flanges and other metal surfaces. Corrects burred or mutilated threads. Accomodates fittings from numerous manufacturers with different size threads.
- Withstands deflection, high pressures (up to 5,000 psig), high temperature (1,000°F), low temperature (-300°F),changes in temperatures, and vibrations
- VOC content - 3.718 micrograms/ Liter (Non Detect)

X-PANDO PRODUCTS COMPANY

Part No.	Description	Container Size
XPANDO	Pipe joint compound, X-Pando, 14 oz can	14 Oz. Can

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THREAD SEALANT



STP4

SLIC-TITE® PASTE

LA-CO Markal

Part No.	Description	Container Size	Case Qty*
STP4[1]	Slic-tite® paste, use on metal, PVC, CPVC and ABS threads, 1/4 pt.	1/4 Pt.	24
STP8[1]	Slic-tite® paste, use on metal, PVC, CPVC and ABS threads, 1/2 pt.	1/2 Pt.	24
STP16[1]	Slic-tite® paste, use on metal, PVC, CPVC and ABS threads, 1 pt.	1 Pt.	24

[1] DuPont Registered Trademark



LL1

LEAK LOCK®

A soft setting pipe joint compound for sealing threaded joints, flanged joints, gasket surfaces and mating surfaces.

- Resin brushable paste which remains permanently flexible, adheres to internal surfaces and fills voids.
- Ideal for metal and plastic materials subject to extreme vibrations
- Effective in temperatures from -200°F to +400°F, full vacuums and pressures to 10,000 psi
- Seals a broad range of chemicals including all refrigerants, petroleum products, natural and manufactured gases, steam, water, air, etc.
- HS11001 is the Leak Lock® Gold formulation with teflon

HIGHSIDE CHEMICALS INC.

Part No.	Description	Container Size	Case Qty*
LL1	Leak lock R, pipe joint compound, 1-1/3 oz., plastic tube	1 1/3 Oz., Plastic Tube	12
HS11001	Leak lock®, pipe joint compound, 1-1/3 oz., plastic tube w/teflon	1 1/3 Oz., Plastic Tube	12
LL16	Leak lock R, pipe joint compound, 16 oz.	16 Oz.	12

REFRIGERANT LEAK SEALANT



NCLS

ONE & DONE

Easy-to-use, hose injection solutions to seal A/C leaks and improve performance. Compatible with all oils and refrigerants, excluding ammonia.

NC

Part No.	Description	Application
NCLS*	Leak stop, seals more/larger leaks permanently	1.5 ton systems and under
NCLS5*	Leak stop, seals more/larger leaks permanently	1.5 to 5 ton systems
NCLSUV*	Leak stop+, seals more/larger leaks permanently, +UV dye	1.5 ton systems and under
NCLSUV5*	Leak stop+, seals more/larger leaks permanently, +UV dye	1.5 to 5 ton systems
NCLSMINI*	Mini Leak Stop + Dry, eliminates moisture, ideal for R290/R600a Systems	1/2 Ton Systems and Under
NCLSUVMINI*	Mini Leak Stop + Dry with UV, eliminates moisture/locates leaks, ideal for R290/R600a Systems	1/2 Ton Systems and Under
NCACD*	A/C Dry, prevents and eliminates moisture in the system	5 ton systems and under
NCACR*	A/C Reviver, saves energy/extends life, enhances cooling and reduces noise	5 ton systems and under
NCLS15*	Leak stop, seals more/larger leaks permanently, marks leaks	6 to 15 ton systems
NCLS30*	Leak stop, seals more/larger leaks permanently, marks leaks	16 to 30 ton systems
NCLS60*	Leak stop, seals more/larger leaks permanently, marks leaks	31 to 60 ton systems
NCLS125*	Leak stop, seals more/larger leaks permanently, marks leaks	61 to 125 ton systems
NCLSUV15*	Leak stop+ with UV, seals more/larger leaks permanently, marks leaks	6 to 15 ton systems
NCAIO15*	Leak stop+, acid neutralizer, AC/R reviver, AC/R dry	6 to 15 ton systems
NCAIO5*	Leak stop+, acid neutralizer, AC/R reviver, AC/R dry	1.5 to 5 ton systems
NCAN5*	Eliminates acide, converts acid to an inert synthetic oil that enhances lubrication in the AC/R system, prevents future acid	1.5 to 5 ton systems



NCO2K1

CO2 GUN KIT

NC

Part No.	Description
NCO2K1	CO2 gun kit with 2 cartridges
NC02C	Refrigerant grade CO2 cartridges (5), to use with NCO2K. Contains 12 grams of refrigerant grade CO2.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov


405005

A/C EASYSEAL

Nu-Calgon

Part No.	Description	Container Size
405005*	1.5 Tons and Under	Direct Inject
4050-06	Up to 5 Ton Systems	3 Oz. Pressurized Can
405002*	Up to 5 Ton Systems	3 Oz. Pressurized Cans (2) + Reusable A/C Piercing Valve and Hose
405008*	1.5 to 5 Ton Systems	Direct Inject
405010*	For Commercial Systems	8 Oz. Pressurized Can
405011*	1.5 to 5 Ton Systems	Direct Inject, W/ UV Die


985CLIP

FLEX INJECT

Flex Inject is the fastest, most effective proven way to permanently seal and prevent minor air conditioning and refrigeration (AC/R) leaks. With no tools or gauges required, the Flex Inject sealant works by travelling through the system with the oil and refrigerant fixing leaks immediately. Flex Inject works with all compressors, heat pumps, condensers, and other system components and it will not plug up manifold gauges, metering devices, thermostatic expansion valves, pistons or cause cap tube blockages. It meets the ASHRAE ARI 700 refrigerant standard and is compatible with any refrigerant including R-410A with no pump downs or recoveries required. Flex Inject is suitable for use in aluminum and copper coils and is microchannel friendly.

DIVERSITECH

Part No.	Description	Container Size
985CLIP*	Up to 6 Ton Systems	Flex Inject


LT76732

SILVER GRADE ANTI-SEIZE

A heavy-duty, high temperature antiseize thread compound applicable for heavy pressure applications. It can be used in high temperature areas up to 1600°F. Used to lubricate and to permit easy disassembly of assemblies exposed to high temperatures and heavy contact pressures, such as boiler and oven parts.

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT76732	Hi Temperature antiseize thread compound, 8 oz. brush top	8 Oz. Brush Top	12
LT76764	Hi Temperature antiseize thread compound, 1 lb. brush top	1 Lb. Brush Top	10
LT76759	Hi Temperature antiseize thread compound, 12 oz. brush top	12 Oz. Aerosol	10

GASKET/SEALANT


LT51031

GASKET ELIMINATOR®, HIGH TEMPERATURE

A single component, medium strength, anaerobic sealant with good heat resistance. The product cures at ambient temperature when confined in the absence of air between close fitting metal surfaces. Seals close fitting joints between rigid metal faces and flanges. Particularly suited where maximum temperature and chemical resistance is required. A high temperature sealant specially engineered for making or dressing gaskets in rigid assemblies. Able to withstand temperatures to 400°F. Fills gaps up to 0.010" and permits clamping loads to be maintained for strong leakproof assemblies.

- unprimed—1 to 12 hours
- primed—15 minutes to 2 hours

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT51031	Gasket eliminator R, high temperature, 50 mL tube	50 mL Tube	10

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

GASKET/SEALANT



LT51531

GASKET ELIMINATOR®, ANAEROBIC

A ready to use, one component, gel-like anaerobic flange sealant that cures at room temperature when it is isolated from air contact. Seals close fitting joints between rigid metal faces and flanges and will flex with minor flange movements. Provides resistance to low pressures immediately after assembly of flanges. Typically used as form-in-place gaskets for pumps, thermostats, compressors, transmission housings and axle covers.

- unprimed 1 to 12 hours
- primed 15 minutes to 2 hours

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT51531	Gasket eliminator R, anaerobic, 50 mL tube	50 mL Tube	10
LT51580	Gasket eliminator R, anaerobic, 300 mL tube	300 mL	10



LT59630

HI TEMP RTV SEALANT

A ready to use, single component, room temperature vulcanizing (RTV) adhesive/sealant for making 500°F to 600°F gaskets and seals. The material cures on exposure to atmospheric moisture to provide a tough, flexible, waterproof, oil-resistant silicone rubber seal. The non-sag properties of this ready-to-use sealant allows its use on vertical as well as horizontal surfaces.

Typical applications:

- High temperature (600°F) adhesive: bonds most all substrates including silicone rubber
- Gasket dressing and sealant to upgrade conventional metal and specialty precut gaskets that often fail at 600°F
- Formed-in-place gasket/sealant to replace preformed gaskets that fail to function up to +600°F
- Seal and encapsulate heating elements in electrical appliances up to 500°F continuous operation
- Sealant and adhesive for assembly and repair of industrial furnaces, ovens, boilers, exhaust stacks and high temperature ducting up to 500°F continuous operation
- Resists aging, weather and thermal cycling without shrinking, cracking, or hardening. Fills gaps to .25".
- Tack-free seal time: 30 minutes

LOCTITE

Part No.	Description	Container Size	Case Qty*
LT59630	Hi Temperature RTV sealant, 80 mL tube	80 mL Tube	12



RT202W

NYLOG

Nylog is an elastic fluid made from synthetic refrigeration grade compressor oil. Gaskets coated with Nylog will never dry or become heat fixed to the surface. Threaded connections coated with Nylog will block high pressure leaks by forming a hydraulic seal. Nylog can be used an assembly lube when installing shaft seals, o-rings, schraeder valves, ball valves, or other internal system components.

- Will not Contaminate Systems
- Seals Flares and Threaded Connections
- Lubricates O-Rings and Gaskets
- Approved by OEM Manufacturers

REFRIGERATION TECHNOLOGIES

Part No.	Description	Container Size	Use with	Case Qty*
RT202W	Nylog White Sealant 4Oz	4 Oz.	Sealant for Air, Gas, Water, and Glycol	12
RT203W	Nylog White Sealant 8Oz	8 Oz.	Sealant for Air, Gas, Water, and Glycol	12
RT201BP[1]	Gasket/thread sealant, nylog Blue (2 pack)	1 Oz	Universally or HFC, Polyolester Lubricants	24
RT200RP	Gasket/thread sealant, nylog Red (2 pack)	1 OZ	CFC, HCFC, Mineral, Alkylbenzene Lubricants	24

[1] 2/Pack

SILICONE SEALANT



HVC100CL

RTV

This HVAC/R sealant is a one-part RTV, acetoxy cure silicone sealant for heating, ventilation, air conditioning, and refrigeration applications. Provides permanently flexible bonds that will not crack, shrink, or chalk. Adheres to most glass, plastic, metal, painted surfaces, fiberglass and ceramic.

ESP ENERGY SAVING PRODUCTS

Part No.	Description	Container Size	Case Qty*
HVC100CL	RTV silicone sealant, clear	10.3 Fl. Oz	6
HVC100AL	RTV silicone sealant, aluminum	10.3 Fl. Oz	6
HVC100BL	RTV silicone sealant, black	10.3 Fl. Oz	6
HVC100WH	RTV silicone sealant, white	10.3 Fl. Oz	6


786

786, MILDEW RESISTANT SEALANT

Dow Corning® 786 Silicone Sealant, a one part acetoxy silicone rubber sealant, is designed to seal non-porous surfaces where conditions of high humidity and temperature extremes exist. It contains a food grade fungicide. Ideal for sealing refrigeration units and areas where food contact is likely.

- Performs at temperatures ranging from -76° to 350°F for continuous operation, up to 400°F for intermittent exposure
- Cured sealant is mildew resistant
- Remains permanently flexible without shrinking, cracking, crumbling or drying out
- Resists staining, spotting and color changes
- Resists moisture and free steam
- Retains original design properties even after years of exposure
- 10.3 fluid oz. cartridge

ENERGY SAVING PRODUCTS

Part No.	Description	Application	Container Size	Case Qty*
786	Mildew Resistant Silicone Sealant, Clear	Sealing tubs, sinks, plumbing fixtures, interior walls, refrigeration units	10.3 Fl. Oz	12


HTSILICONE

HIGH TEMPERATURE

This hi-temp sealant is a one-part, 100% silicone rubber paste that cures to a tough, rubbery solid at room temperature on exposure to water vapor in the air.

- Nonslumping
- Pastelike consistency for ease of tooling
- Performs at temperatures ranging from -85° to 480°F for continuous operation, up to 575°F for intermittent exposure
- Remains permanently flexible
- Applications: bag filters on smoke stacks, sealing fired heaters, flues on gas appliances, heating elements in appliances

ENERGY SAVING PRODUCTS

Part No.	Description	Application	Container Size	Case Qty*
HTSILICONE	High Temperature Silicone	bag filters on smoke stacks, sealing fired heaters, flues on gas appliances, heating elements in appliances	10.3 oz	6


FFB12

FIRE STOP SEALANT

ENERGY SAVING PRODUCTS

Part No.	Description	Container Size
FFB12	Fireblock foam sealant, effective at blocking smoke and toxic gases.	12 Oz.

SEALER & ADHESIVE


IF1212

AEROSOL

- Economically insulates, seals, bonds and retrofits. Stops air infiltration
- Meets major building codes
- Cured foam can be trimmed, sanded and painted
- Excellent shelf life-guaranteed quick delivery
- Tack-free bond in less than 10 minutes
- Fully cured bead in approximately 1 hour
- HCFC formula
- UL classified

DIVERSITECH

Part No.	Container Size	Yield Linear Ft 3/8" Bead	Yield (Ft.³)	Case Qty*
IF1212*	12 Oz.	780	0.6	12
FF24*	24 Oz	1560	1.2	12


NRP2

SEALING COMPOUND

- Nondrying synthetic polymer
- Off white color

NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Case Qty*
NRP2	Sealing Gum, 2 Lb. Slug/Box	24
NRP38	Sealing Cord, 3/8" Bead, 25'	12

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEALER & ADHESIVE



N4820

SPRAY-N-BOND ADHESIVE

This wide web spray adhesive is one of the highest performance aerosol adhesives available. Formulated specifically for insulation and duct liner applications, this high solids product is ideal for uneven or porous surfaces and weight materials. Waterproof, flexible, transparent and non-staining, and it can be used for both temporary or permanent bonds. Use it for your toughest adhesive applications, including leather, cardboard, most plastics and cloth. Formulated with the environment in mind, this product contains NO CHLORINATED SOLVENTS OR OZONE DEPLETERS. Cleans easily with degreasing solvent (mineral spirits). Not intended for use on vinyl.

- VOC compliant

Part No.	Container Size	Description
N4820	10 Oz.	Spray Adhesive
436975	12 Oz.	Spray-n-bond™ Adhesive
436985	12 Oz.	Spray-n-bond™ Adhesive, Low VOC

EPOXY



LT21425

EPOXY CUPS

A 2-component, room temperature curing epoxy adhesive used for high strength, permanent bonding of metals, ceramics, concrete, wood, glass and most plastics. This product can withstand temperatures up to 180°F.

- Bonds virtually any material
- May be drilled, tapped, sanded, or machined and painted after cure
- Reaches handling strength in 10 minutes
- Can of 10, 4 gm net weight cups

LOCTITE®

Part No.	Description
LT21425	Fast Cure Epoxy Cups



LT98853

STEEL EPOXY, STICK

Steel epoxy in stick form. Cut off a section, knead and apply to leaking pipes or damaged equipment. Cures in 10 minutes.

- NSF approval

LOCTITE®

Part No.	Description	Container Size	Case Qty*
LT98853	Steel epoxy 4 oz. stick	4 Oz. Stick	24


HSS

HEAT-SEAL STIK®

- Fast, repairs completed in 90 seconds
- One part epoxy, no mixing or measuring needed; stick melts, seals and cures in one operation
- Sealing temperatures: up to 350°F
- Pressures: to 450 psi
- Use on aluminum, copper and other metals, glass and ceramics
- Ideal for use on high and low side of refrigeration systems

LA-CO Markal®

Part No.	Description	Container Size	Case Qty*
HSS	Heat-Seal Stik®, 3/8 oz.	3/8 Oz.	12



429910

QUICK SEAL™ PIPE REPAIR

A knitted fiberglass impregnated tape that is designed for quick, in-the-field repair of leaks for all types of pipes. Multiple rolls required for repairs on applications greater than 50 psi.

- Activates within seconds and hardens within minutes
- Bonds to all pipes including PVC, steel, copper, lead, cast iron, aluminum and fiberglass.
- Seals cracks, holes and leaks in lines, joints and elbows
- Works on hot and cold water pipes

Nu-Calgon®

Part No.	Description	Application
429910	Quick Seal™ pipe repair, 2" x 3' wrap	1/2 to 1 1/2" dia. pipe
429911	Quick Seal™ pipe repair, 4" x 12' wrap	2 to 4" dia. pipe


429925

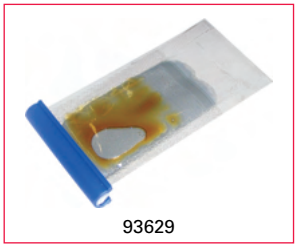
QUICK SEAL™ REPAIR PATCH

- UV light activated self-adhesive repair patch
- Extremely durable fiberglass reinforced polyester/plastic
- Ideal for use in HVAC/R, plumbing, and a variety of other applications
- Can be drilled, tapped, sanded or painted in less than an hour
- Resistant against many chemicals, solvents and oils
- Flexible and waterproof
- Will not rot or rust
- Fast curing with no shrinkage or expansion after curing

Nu-Calgon®

Part No.	Description
429925[1]	UV Light Activated Fiberglass Reinforced Self-Adhesive Repair Patch, 3" x 6"
429926	UV Light Activated Fiberglass Reinforced Self-Adhesive Repair Patch, 6" x 9"

[1] Use with 405015 UV Lenses


93629

PIPESEAL

Pipeseal is a unique multi-component epoxy designed to quickly and permanently patch, seal and repair cracks, holes and leaks in all types of pipe.Seals holes in pipe to full pressure in under five minutes using a heat gun or hair dryer Works on all types of pipes including copper, steel, lead, cast iron and aluminum.

- Heat activated - Hardens fully in less than 1 minute. (140°F)
- Withstands pressures up to 1200psi.
- No wrap/plug required.
- Suitable for refrigerant lines.
- Extreme chemical resistance
- 100% solids - No VOCs
- Permanently seals holes of up to 1/4" diameter.

Part No.	Description
93629*	Pipeseal tube patch



JB8265

TWO PART EPOXY

- Original cold weld formula
- Steel reinforced
- Works on multiple surfaces
- Strength: 3960 psi
- Set time: 20-25 minutes
- Cure time: 15-24 Hours
- Cure color: dark grey

Part No.	Description
JB8265	(2) 1 Oz Tubes, One Hardener, One Steel


2000PC

PANSEAL™

Panseal™ is a unique multi-component 2 part epoxy designed to quickly and permanently seal, repair, and restore leaking and corroded drain pans. Available in caulk gun cartridges for easy application, gallon size containers for larger surfaces such as cooling towers and patch kits (special order) for vertical surfaces. All container sizes contain pre-measured amounts of resin and hardener.

Part No.	Description	Container Size
2000PC	Panseal™ Epoxy Drain Sealant	10.3 oz Cartridge
20001PG	Panseal™ Epoxy Drain Sealant	1 Gal.

DUCT, ROOF


RSA

ACE® ROOFSEAL

Seals leaks, cracks, seams, etc., around rooftop air-conditioning units, vents, chimneys, skylights, etc. Can also repair cracks and holes, etc., in most roofing materials. Sprays as a liquid and dries to a thick black rubberized coating.

Part No.	Description	Container Size	Case Qty*
RSA	ACE® Roofseal, 14 Oz Aerosol	14 Oz.	6



CMD230

ROOF CEMENT

Premium All-Weather Roof Cement is a premium grade mastic compound. This material is a blend of selected asphalts, hardened fibers, selected fillers, and petroleum solvents. This quality product is supplied in a smooth, easy-working consistency which adheres to wet or dry surfaces. Premium All-Weather Plastic Roof Cement remains flexible after application, expanding and contracting on the surface to which applied. Premium All-Weather Plastic Roof Cement has a high resistance to weathering and provides excellent durability against all the stresses and wear to which such coatings are normally exposed. Available in 55 gallon drums. Guaranteed to meet or exceed Fed. Spec. SSC-153C Type I, ASTM-D-2822-75 Type I.

- Excellent for curbs
- Waterproof
- Applies as a putty
- Color (Black)

Part No.	Container Size	Description
CMD230	10 Oz.	Roof cement, 10 Oz cartridge
CMD231	1 Gal.	Roof cement, 1 gal.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

THAWZONE



TZ1

THAWZONE®

The original liquid dehydrant for the control of moisture in refrigeration systems. Thawzone® chemically dries ALL refrigerants including those containing methyl chloride and methylene chloride.

- Does not leave residue
- Frees frozen systems due to moisture in 5 minutes
- Prevents refreezing
- Does not contain any dissolved solids or methanol

HIGHSIDE CHEMICALS INC.

Part No.	Description	Container Size	Case Qty*
TZ1	Thawzone®, 1 oz.	1 Oz.	24
TZ4	Thawzone®, 4 oz.	4 Oz.	12
TZ16	Thawzone®, 16 oz.	16 Oz.	6

OIL ADDITIVE



8SUPCO88

SUPCO® 88 OIL ADDITIVE

Supco 88 dissolves sludge buildup on bearing and valve surfaces and keeps them clean and bright. It vastly increases the lubricating capability of mineral oils used in high speed compressors. Current draw is reduced when Supco 88 is used in new units by reducing friction and preventing overloading.

Supco

Part No.	Container Size	Case Qty*
8SUPCO88	8 Oz.	24

AIR FRESHENER



1503D

CLENAIR ORIGINAL ODOR NEUTRALIZER

Absorbs odors, does not mask them. Use 2 lbs. per 400 sq. ft. or ton of air conditioning for medium odors.

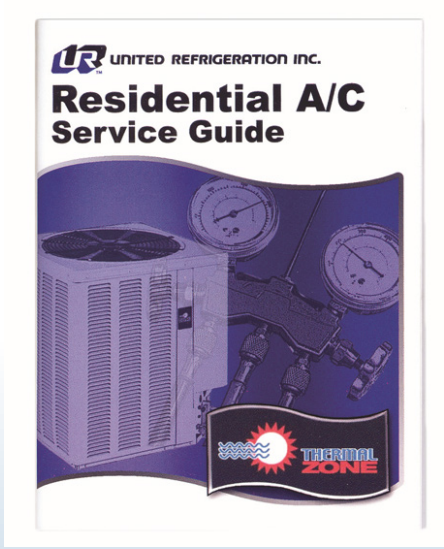
1502D is a unique self-feeding box to install in return duct.

1800 Series and 1900D eliminate fuel oil odors.

ClenAir by Nu-Calgon

Part No.	Container Size	Comments	Description	Case Qty*
1503D	3 Lbs.	Semi-Solid Gel	Air freshener, semi solid gel, 3 lb.	4
1801D	1 Lb.	Semi-Solid Gel, Cherry Scent	Odor neutralizer, Cherry Air™, eliminates fuel oil odor, semi solid gel, 1 lb.	12
1803D	3 Lbs.	Semi-Solid Gel, Cherry Scent	Odor neutralizer, Cherry Air™, eliminates fuel oil odor, semi solid gel, 3 lb.	4
CA1303	3 Lbs.	Semi-Solid Gel, Orange Scent	Odor neutralizer, OrangeAir™, eliminates fuel oil odor, semi solid gel, 3 lb.	4
61038	1 Gal.	Spray, Cherry Scent	Odor neutralizer, Cherry Air™, eliminates fuel oil odors, liquid spray, 1 Gal.	4
CA1015	6.5 Lb.	HVAC Commercial Odor-Block	Odor-block, commercial, semi solid gel, treats 10 to 15 ton systems for 4 months, 6.5 lb.	2







Application & Engineering Data **Page**

- Books 1177-1180
- Software 1181

BOOKS

BOOK 1, FUNDAMENTALS OF REFRIGERATION

Intensive overviews of the physics of refrigeration, system components, refrigeration load, system design and installation and service are covered in this set of manuals published by Copeland which have been standards in the industry for years. 5 individual booklets provide the information needed to correctly establish capacity, select components, connect them, and figure out why poorly designed systems fail.


AE101

BOOK 1, FUNDAMENTALS OF REFRIGERATION

Topics Covered Book 1—Fundamentals of Refrigeration-Thermodynamics, Heat Transfer, Sensible and Latent Heat, Superheat and Subcooling, Pressure/Temperature Relationships, Refrigerant Types (Pre-Blends), Refrigerant/Oil Relationships, The Refrigeration Cycle, Effects of Pressure Changes/Drops/Subcooling/Superheating, Two Stage and Cascade Systems.

COPELAND

Part No.	Description
AE101*	Book 1, Fundamentals of Refrigeration


AE102

BOOK 2, REFRIGERATION SYSTEM COMPONENTS

Topics Covered Book 2—System Components-Compressors (Types, Basic Operation, Lubrication), Condensers (Types, Capacity, Temperature and TD), Evaporators (Types, Pressure Drop, Capacity, TD and Dehumidification, Defrosting), Refrigerant Control Devices (TXVs, Flow Control, Solenoids, PRVs, Shutoffs), Electrical Control Devices (Differential, Pressure, Temperature, Timers, Relays, Transformers), Motors (Temperature, Types, Multiphase), Motor Starters (Contactors, Capacitors, Protectors, Effects of Voltage Imbalance), Accessories (Driers, Receivers, Accumulators and Separators, Moisture Indicators, CC Heaters).

COPELAND

Part No.	Description
AE102*	Book 2, Refrigeration System Components


AE103

BOOK 3, REFRIGERATION LOAD

Topics Covered Book 3—Refrigeration Load-Heat Transmission (Thermal Conductivity and Resistivity, Transmission Heat Load, Outdoor Design Data, Quick-Calculation Walk-In Table), Air Infiltration (Air Change and Velocity Estimation, Infiltration Load), Product Load (Product Tables, Heat of Respiration, Sensible/Latent Heat, Storage Data), Supplementary Load (Lights, Motors, Human) Equipment Selection (Sample Load Calculation, Humidity and Evaporator TD, Selection and System Balancing, Quick Selection Walk In Tables). Includes reference tables for food products, storage requirements, space/weight/density data.

COPELAND

Part No.	Description
AE103*	Book 3, Refrigeration Load


AE104

BOOK 4, SYSTEM DESIGN

Topics Covered Book 4—System Design-Basics (Fundamentals, System Balance, Controls, Components), Piping (Tubing and Fittings, Line Sizing, Risers, Multiplex Systems), Low Temperature Systems (Multistage and Cascade Systems, Piping), Transport Refrigeration (Refrigerant Charge and Migration, Components, Eutectic Plate Applications, Troubleshooting), Capacity Control (Unloading, Hot Gas Bypass, Desuperheating TXV), Liquid Refrigerant Control (Migration, Flooding, Slugging, Corrective Actions), Electrical Control Circuits.

COPELAND

Part No.	Description
AE104*	Book 4, System Design

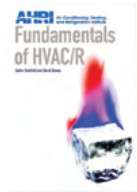

AE101-105

Complete set of all five individual booklets in a binder

COPELAND

Part No.	Description
AE101-105*	Complete Set in Binder

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



ISBN01322

FUNDAMENTALS OF HVAC/R

Created with a clear-cut vision of what trainees need, Fundamentals of HVAC/R provides comprehensive coverage of heating, ventilating, air conditioning, and refrigeration (HVACR) topics. This new reader-friendly book offers fundamental concepts, the most current trends, and practical applications in the field. With simple language, skillfully presented concepts, carefully selected artwork, and the right amount of detail, this book is everything trainess need to know to install, service, and maintain HVACR systems.

Part No.	Description
ISBN01322	Fundamentals of HVAC/R, ARI



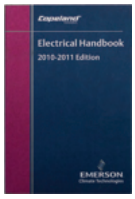
RSGAC

RESIDENTIAL A/C SERVICE GUIDE

Pocket size service guide that includes: service procedures, problem solvings and reference charts for refrigeration cycle and compressors.

THERMAL ZONE

Part No.	Description
RSGAC*	Residential A/C Service Guide



6400

ELECTRIC AND START COMPONENTS REFERENCE

This large pocket size reference book lists the applicable starting components for all Copeland current model compressors and condensing units. Basic electrical applications are discussed along with typical wiring diagrams, model nomenclature, component specifications, fuse selection, motor protectors application and troubleshooting, and basic electrical troubleshooting. This is a must have reference.

COPELAND

Part No.	Description
6400*	Copeland Electric and Start Component Reference
6400SP*	Copeland Electric and Start Component Reference, Spanish

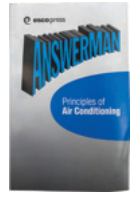


ISBN02X

HVAC/R REFERENCE GUIDE

A pocket sized reference manual that every air conditioning and refrigeration technician MUST have. This book is a compilation of charts, graphs, formulas, and trouble shooting guidelines. It contains: Temp/Pressure/Enthalpy/ Entropy charts, Troubleshooting charts, English/Metric conversions, Gas laws/formulas, Insulation values, Wire capacity, Motor specifications, Electronics, Torque specifications, Pipe and tubing/copper/ aluminum/steel, Taps/ dies/drill sizes, and much more.

Part No.	Description
ISBN02X	HVAC/R Reference Guide



ISBN038

PRINCIPLES OF AIR CONDITIONING

Provides the technician with a solid foundation in the principles of air conditioning and refrigeration. It is an excellent training manual for the beginning technician and a great review for the journeyman. Subjects covered include: temperature and pressure, basic thermodynamic principles, physical matter, sensible and latent heat, gas laws, refrigerant cycle, refrigerants, environmental impact of CFCs, system service and troubleshooting.

Part No.	Description
ISBN038	Principles of Air Conditioning



ISBN070

ELECTRICITY FOR HVAC/R

Electrical problems account for more than 80% of all service scenarios. Electricity for HVAC&R - A Guide to Troubleshooting provides the technician with the information necessary to successfully diagnose electrical problems.Electricity for HVAC&R - A Guide to Troubleshooting is a practical view of what electricity is and how it works. It is more than just a textbook. Each subject is addressed by answering the most frequently asked questions about electricity.

Part No.	Description
ISBN070	Electricity for HVAC/R

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BOOKS



ISBN062

TROUBLESHOOTING AND SERVICING

Troubleshooting and Servicing Modern Air Conditioning and Refrigeration Systems gives service technicians all the information needed to accurately diagnose and solve various systems problems. The book details a variety of topics and troubleshooting procedures, including the following: Refrigerant pressures, states, and conditions, Subcooling and superheat, Compression systems, Metering devices, System charge, Diagnosing air conditioning systems, Systematic troubleshooting, Alternative refrigerants, Refrigerant blends and oils, Leak detection - evacuation and clean up procedures, Ozone depletion and global warming. Discusses the changes affecting the refrigeration and air conditioning industries with an emphasis on the phaseout of CFC and HCFC refrigerants. Detailed sections on the most current leak detection and evacuation methods are included, as well as a section on alternative refrigerants and retrofit guidelines. The book also includes the most encountered refrigerant changeover guidelines.

Part No.	Description
ISBN062	Troubleshooting and Servicing





7197932

CONTROLS SERVICE HANDBOOKS

- **Gas Controls Service Manual**: all of the technical data and service information needed to safely and efficiently check and repair gas burner controls systems. Includes combination gas controls manufactured in the last 30 years for furnace, boiler and other heating appliance manufacturers, as well as service replacement controls.
- **Gas Electronic Ignition Controls Service Manual**: principles of controlling gas heating equipment including intermittent pilot, direct spark ignition and hot surface ignition. Model numbers and specifications for obsolete as well as currently manufactured controls.
- **Oil Controls Service Manual**: control of oil burners is undergoing a major change as manufacturers are transitioning from electromechanical and electronic controls to microelectronic oil primary controls. This manual includes information on these controls and on older devices that have been used for years.

Honeywell

Part No.	Description
7197932	Service Handbook Library



7197558

FLAME SAFEGUARD CONTROLS TEXTBOOK

The most comprehensive and popular Flame Safeguard textbook available in our industry. It's where the beginners begin and where the Old Pros return year after year and problem after problem. 362 pages. 2nd edition.

- Introduction to Flame Safeguard - Flame Safeguard functions and controls.
- Combustion - explanation of fuel types and flame characteristics.
- Burners and Boilers - description of representative burners and boilers.
- Flame Rod Application - design and installation of flame rods and rectification systems.
- Optical Detector Applications - description, operation, application and checkout of detectors; covering rectifying photocells, infrared, and ultraviolet detectors.

Honeywell

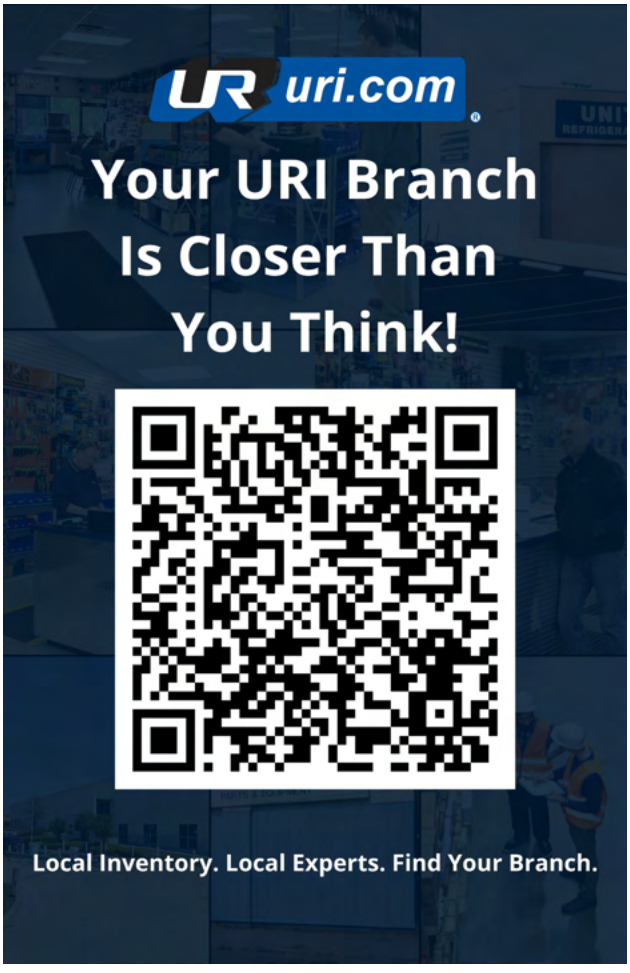
Part No.	Description
7197558	Flame Safeguard Controls Textbook


RJSTRJ

ESSI JOURNAL

A stand alone system for keeping track of refrigerant usage to comply with EPA rules. Technician journal has forms for recording refrigerant additions and deletions by type and specific equipment, purchases and disposal, appliance disposal and unintentional venting. Master Journal provides a company wide summary. The bonus pack includes one master journal, 4 technician journals and a copy of the EPA final rule summary. Use alone or as a data collection accessory for the Refrigerant Compliance Manager software package or Refrigerant Journal Software. From Environmental Support Solutions.

Part No.	Description
RJSTRJ	ESSI Technician Journal
RJSMRJ	ESSI Master Journal
RJSBONUSPACK	ESSI Journal Kit



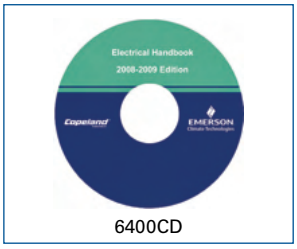
SOFTWARE


QT3100

EPA CERTIFICATION COURSE

Self Study Course: Mainstream Engineering Corporation is an EPA approved testing organization for the required EPA Refrigeration Technician Certification Exam. To assure a better chance of passing this exam, Mainstream Engineering has developed a self-study course the technician can use at home to gain a better understanding of what the EPA exam questions will involve. The EPA Test: When the technician is ready for testing, your local United Refrigeration branch is contacted and the test is taken there. The test must by proctored by an individual designated by Mainstream Engineering. This has been arranged by United Refrigeration and Mainstream. After the test is completed, United Refrigeration mails the test to Mainstream for grading. Once an exam is received at Mainstream, it is graded within 2 business days. Test results are mailed to the technician and posted on-line at www.epatest.com the same day the exam is graded. The EPA certification card is mailed directly to the student

Part No.	Description
QT3100	(English) EPA Approved Proctored Type I, II, III, Core and Universal Exams - without test
QT3000-DVD	(English) EPA Approved Proctored Type I, II, III, Core and Universal Exams - with paper test
QT3004	(Spanish) EPA Approved Type I, II, III, Core and Universal Study Materials and Proctored Exams - with paper test
QT3001	(English) EPA Section 608 Universal test only
QT3002	(Spanish) EPA Section 608 Universal test only



6400CD

ELECTRICAL HANDBOOK CD

This reference covers in detail electrical service information on welded compressors, Copelametic®, Copeland Scroll®, and Copeland Screw® compressors. In addition, electrical service information is provided for Copeland brand Condensing Units. The booklet is designed to assist the service engineer to better understand the function of such items as motors, relays, starting capacitors, running capacitors and motor protectors. In addition to electrical information, a brief section dealing with diagnosing the causes of compressor failures has been added.

Part No.	Description
6400CD*	Electrical Handbook CD

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

NOTES

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

CORPORATE HEADQUARTERS

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Philadelphia, PA 19154-2102
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Email: info@uri.com

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516 A 35th Street North
Birmingham, AL 35222-1274
Phone: 205-307-7800 - Fax: 205-307-7885
Email: branch427@uri.com

Huntsville #517
4622 Commercial Drive NW
Huntsville, AL 35816-2202
Phone: 256-837-1065 - Fax: 256-837-1022
Email: branch517@uri.com

Mobile #E8
2300 Halls Mill Road
Mobile, AL 36606-2124
Phone: 251-450-0044 - Fax: 251-450-0093
Email: branche8@uri.com

Montgomery #410
1100 Lincoln Road
Montgomery, AL 36109-4300
Phone: 334-262-1210 - Fax: 334-262-1277
Email: branch410@uri.com

ARIZONA

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1191 N. Fiesta Blvd. Suite 3
Gilbert,AZ 85233-2280
Phone: 480-633-9100 - Fax: 480-633-9509
Email: branchp4@uri.com

Phoenix (North) #404
22430 North 18th Drive
Phoenix, AZ 85027-1365
Phone: 623-245-9100 - Fax: 623-245-9102
Email: branch404@uri.com

Phoenix (South) #D3
302 E. Watkins Street
Phoenix, AZ 85004-2929
Phone: 602-268-9100 - Fax: 602-268-0540
Email: branchd3@uri.com

Tucson #563
2125 E. Beverly Drive
Tucson, AZ 85719-6931
Phone: 520-497-5100 - Fax: 520-844-6915
Email: branch563@uri.com

West Phoenix #424
407 South 107th Avenue, Bldg A, #18&20
Tolleson, AZ 85353-9456
Phone: 623-474-2500 - Fax: 623-474-2502
Email: branch424@uri.com

ARKANSAS

Little Rock #466
900 West 9th Street
Little Rock, AR 72201-4036
Phone: 501-372-9100 - Fax: 501-372-9101
Email: branch466@uri.com

ARKANSAS

Springdale #T4
3903 Elliott Avenue
Springdale, AR 72762-4932
Phone: 479-927-2400 - Fax: 479-927-1563
Email: brancht4@uri.com

CALIFORNIA

Bakersfield(relocated 10-4-21) #D9
3101 Gilmore Avenue Suite 300
Bakersfield, CA 93308-6342
Phone: 661-322-1100 - Fax: 661-322-2145
Email: branchd9@uri.com

Buena Park #D1
6150 Valley View Street
Buena Park, CA 90620-1030
Phone: 714-736-9500 - Fax: 714-736-5159
Email: branchd1@uri.com

Carson #C6
1134 E. Dominguez Street
Carson, CA 90746-3518
Phone: 310-537-8282 - Fax: 310-537-5668
Email: branchc6@uri.com

Escondido #D4
2225 Auto Park Way
Escondido, CA 92029-1348
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NOTES

A

A1
Moisture Indicator ... 273

AAB Smart Tools
Anemometer ... 1004

Abrasive
Cloth ... 1129
Pads ... 1129

Access Fitting
... 714-718
Clamp On ... 718

ACI
Control, Humidity ... 870
Control, Sensor ... 873

Acid Neutralizer
National Chemicals ... 1159
Rectorseal ... 1159

Acid Test
Nu-Calgon ... 274
Sporlan ... 274
Kit ... 274

Acme
Sheet Metal ... 536

Actuator, Commercial
Belimo ... 850, 852-854
Honeywell ... 834-835, 855-863, 890
Honeywell Home ... 859
Johnson Control ... 850, 854-855, 859, 882-883
Kreuter ... 899
Powers ... 900
TAC - Barber Colman ... 858, 860, 862-864, 896-897
Accessory ... 854
Damper Linkage ... 863
Direct Coupled ... 834-835, 852-854, 856-857, 859
Direct Coupled, Damper ... 854-857, 859
Direct Coupled, Valve ... 858
Draft Damper ... 859
Drive Accessory ... 860
Foot Mount ... 860-862
Foot Mount, Accessory ... 863
Foot Mount, Damper ... 860
Hydraulic ... 863-864
Linear, Valve ... 858
Linkage, Valve ... 896-897
Pneumatic, Damper ... 882-883, 890, 899-900
Pneumatic, Relay ... 896
Pneumatic, Valve ... 883, 890, 896
Valve ... 850, 852, 858
Valve Linkage ... 850, 862, 864

Adapter
Brass, Flare, Half Union ... 678
Ice Machine Bin ... 354
Pipe Thread, PVC ... 704
Pipe Thread, Wrot Copper ... 664
Rotolock ... 133-134
Tank, Flare ... 683
Tank, Torch ... 1120
Trunk ... 526

Adapter, Thermocouple ... 813

Addison
Air Conditioning, Mushroom Cultivation ... 726

Adhesive
Duct ... 541-542, 1174
Epoxy ... 1174-1175
Insulation, Elastomer ... 661

Aerosols
ESP ... 1161
National Chemicals ... 1161
Nu-Calgon ... 1161
Rectorseal ... 1161

Air Cleaner
Dynamic ... 569
Honeywell Home ... 569-570
Nu-Calgon ... 576-577
Research Products ... 569, 571
Thermal Zone ... 575
Electronic, Media ... 569
Electronic, Plenum ... 570
Electrostatic ... 569
Ionized Plasma ... 575-578
Media, Plenum ... 569-571
Media, Portable ... 569

Air Conditioner
International Refrigeration Products ... 457-459, 719
Koldwave ... 459-461
Sea Breeze ... 457, 719
Portable ... 459-461, 719
Window ... 458-459

Air Conditioning, Ductless-Split
Daikin ... 449-452, 696, 698-699, 701, 710
Quick-Sling ... 454, 621
Rectorseal ... 454
Sea Breeze ... 401-405, 413
Thermal Zone ... 453
Ceiling ... 401-403, 449-452, 698-699
Ceiling, Heat Pump ... 699

Manufacturers are listed in blue

Commercial....698-699, 701
Mounting Bracket....454, 621
Stand....454, 621

Air Conditioning, High Static
Unico....463-468
Duct Components....463-468
Equipment Modules....463

Air Conditioning, Mushroom Cultivation
Addison....726

Air Conditioning, Packaged
Addison....726
Arcoaire....435-437, 440-444
ICP Commercial....417
NCP....473
Accessories....410
Apartment....473
Electric....436-437, 443-444
Electric Heat Accessory....417
Gas/Electric....435-436, 440-443
Water Cooled....469, 471-472, 609

Air Conditioning, Split, Commercial
Thermal Zone....395
Condenser....395

Air Conditioning, Split, Residential
Arcoaire....390-394, 411-419, 423, 742
Bosch....400, 419
NCP....461-462
A/C Condenser....390-394
Accessories, Condenser....423
Accessories, Fan Coil....419
Condenser, Apartment....461-462
Evaporator....411-412
Fan Coil....413-417
Fan Coil Electric Heat Accessory....417-419
Furnace, Electric, Accessory....418
Heat Pump Condenser....400
Hydronic Coil....420
Thermostats....742

Air Cooled Condenser
Bohn....161
Larkin....302
Trenton Refrigeration....156

Air Drier
Hankinson....902

Air Filter
Aluminum Pad....596
Foam, Bulk....595
Foam, Pad....595
Glass, Bulk....594
Glass, Disposable....582-584
Hog Hair, Bulk....594
Hog Hair, Pad....595
Pleated, Disposable....586-593, 848
Polysynthetic, Bulk....594
Polysynthetic, Disposable....584-586

Air Freshener
Clen-Air....1176

Air Purification System
RGF....578, 581

Air Purifier
Blue Science....575
Nu-Calgon....574
RGF....573, 577-578, 581

Air Scrubber
Arcoaire....571

Airtec
Ceiling Diffuser....491

Alarm, Door....994

Alarm, Temperature....607, 993

Alco/EFC
Drier....257-259, 261, 263-266, 268-269
Expansion Valve....198, 207-208, 212-213, 215-216, 218-220, 375
Moisture Indicator....272-273
Oil, Refrigeration, Components....275-277, 279, 283
Solenoid Operating Magnet....233
Solenoid Valve....229-233
Suction Filter....264, 267-268

Aleco
Strip Curtain....366

Alfa Laval
Bracket....194
Brazed Plate Heat Exchanger....308
Receiver, Refrigerant....186
Rotolock....194-195
Water Cooled Condenser....185

Alkylbenzene Oil....318

Aluminum Tape....1138-1139

Ambro Controls
Brazing....1114

Amcraft
Tool, Duct Board....1100

Amtrol
Hydronic Specialties....631

Manufacturers are listed in blue

Ansell
Glove ... 1071

Anti-Sieze
Loctite ... 1171

Apex Engineering ... 1156

Application Manual
Copeland ... 1178
... 1178

Aprilaire
Current Sensing Relay ... 904
Humidifier ... 579-580

Aquaguard
Safety Switch ... 294-295

Aquastat
... 829-831
Multiple ... 830

Arcoaire
Air Conditioning, Packaged ... 435-437, 440-444
Air Conditioning, Split, Residential ... 390-394, 411-419, 423, 742
Air Scrubber ... 571
Furnace, Gas, Residential ... 407-409, 424-430, 610
Furnace, Oil, Residential ... 408-409, 433-434
Heat Pump, Packaged ... 438-439, 445-446
Heat Pump, Split, Residential ... 395-400
Thermostat, Digital, Wifi ... 749

Armacell
Insulation ... 655-656, 659-660
Pipe Cradle ... 721
Tubing Hanger ... 719

Aspen
Pump ... 290

Auxiliary Drain Pan
Diversitech ... 296
Rectorseal ... 296
Metal ... 296

Auxiliary Side Connector
Sporlan ... 236
... 236

Awl ... 1069

B

B Vent
Hart and Cooley ... 500-503
Cap ... 502
Collar ... 503
Draft Hood Connector ... 501
Elbow ... 501
Increaser ... 501
Pipe ... 500
Roof Flashing ... 502-503
Tee ... 502
Wall Bracket ... 503
Wall Thimble ... 503
Wye ... 502

Bacharach
Leak Detector ... 996, 998-999

Backflow Preventer
Honeywell Home ... 637
Watts ... 637

Bacteriostat
Nu-Calgon ... 1153

Ball Valve
Sporlan ... 247
Refrigerant ... 247-249
Water ... 623

Bally
Refrigerator ... 365

Barber Colman
Actuator, Commercial ... 896-897
Control, Pneumatic ... 896

Barometric Damper ... 615

Base
Motor ... 49

Baseboard Register ... 480-481

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Control, Gas Heating ... 811, 813-814, 816-818
Pilot Valve, Gas ... 844-845
Tubing ... 812

Battery
Alkaline ... 1091
Lithium ... 1091

Bearing, Shaft ... 561-563

Beckett
Check Valve ... 295
Pump ... 289-290, 295
Pump Safety Switch ... 294

Beckett, R.W.
Oil Burner ... 40, 617-618

Manufacturers are listed in blue

Belimo
Actuator, Commercial 837, 850, 852-854
Characterized Control Valve 851-852
Zone Valve 837-838

Bell and Gossett
Hydronic Specialties 633, 635-638
Pump 624-625, 629-630

Belt
Browning 563-566
Fan 563-564, 566
Fan, Cog 564-565
Tension Analyzer 566

Belt Jack
Supco 566

Bender, Tubing 1043

Beverage-Air 370-371

Bin, Ice Storage
..... 335, 337, 341, 345, 353
Accessories 335, 354

Bitzer
Compressor, Air Conditioning, Screw 113-114
Compressor, Refrigeration 107-112
Compressor, Refrigeration, Screw 112-113

Blade
Fan 549-551

Blissfield
Compressor, Refrigeration 131

Blower Assembly
Lau Industries 555
Bearing Bracket Kit 555
Motor Mounting Kit 555

Blower Wheel
Fasco 553
Lau Industries 553-554

Blue Diamond
Condensate Pump 291-292
Condensate Pump Accessories 292

Blue Science
UV Purification System 575

Bohn
Air Cooled Condenser 161
Condensing Unit, Refrigeration, Air Cooled 160, 276-282, 302
Motor, OEM Factory 52
Unit Cooler 157-159, 259-263

Boiler
Crown 602-605, 866
Gas, Hot Water 602-605, 866
Liquid Level Pump Control 641
Low Water Cutoff 641
Oil, Steam 603-604
Water Feeder 640-641

Bolt
NRP 1130, 1132
Hex Cap Screw 1130
Toggle 1132

Bonnet
Copper, Flare 683

Books
ESCO 1179-1180
Application Manual 1178
Reference 1180
Service Manual 1178-1179

Books, Text 1179-1180

Booster Fan
Tjernlund 547

Boot
Oval 530
Register 519-521
Wall Stack 528

Bosch
Air Conditioning, Split, Residential 400, 419
Water Source Heat Pump 469, 471-472

Bostich
Stapler 1069

Box
"B" 522
"C" 522
Floor 521
Funnel 522
Register 522-523
Return Air 534

Box, Electrical
Cover 939

Box, Insulated 523

Bracket
Alfa Laval 194
IRP/Plastiduct 670, 729
Westermeyer 194
Barrel 194
Motor 50-51

Manufacturers are listed in blue

Mounting, Riser 670, 729

Brainerd
Compressor, Air Conditioning 125-129
Compressor, Refrigeration 123-124
Compressors 74-76, 78-80, 94-95, 104-106, 124

Bramec
Fitting, PVC Sch 40 705
Pump-Ups 410
Strap 537

Brazing
Ambro Controls 1114

Brazing Alloy
Harris 1126-1127
Uniweld 1126

Browning
Belt Tension Analyzer 566
Fan Belt 563-566
Fixed Pitch Pulley 557-560
Shaft Bearing 562-563
Variable Pitch Pulley 555-556

Brush
International Refrigeration Products 1093-1094
Acid 1095
Chip 1094
Condenser Tube 1095
Fitting 1093
Radiator 1094
Tube 1095
Wire 1094

Bucket
CLC 1082

Bungee Cord 1108

Bushing
Black Iron 695
Brass, NPT 688
PVC 703

Bushing, Electrical 937

Bussman
Fuse Holder 937
Fuse Puller 937
Fuse, Electronic 936
Fuse, Inline 936
Fuse, Power 933-935

C

C and D Valve
No Vent Cap 718

Cable
Clamp 945
Marker 944
Tie, Duct 536
Tie, Wire 945

Caliper 1070

Cam-Stat
Control, Warm Air 826-827
Timer 827

Cap
B Vent 502
Black Iron 698
Chimney 535
Flare 682
PVC 705
Sheet Metal 512
Wrot Copper 668

Cap, End, Trunk 526-527

Capacitor
International Refrigeration Products 920-924
Mars 925
Packard 921-922
Dual 922-923
Dual, Round 922-923
Run 920-921
Run, Round 921-922
Run, Universal 925
Start 924

Capacitor Tester 976

Capillary Tubing
J/B Industries 223
Supco 223

Carbon Dioxide Sensor
Honeywell 874

Carbon Monoxide Detector
Inficon 1002
Macurco 878

Carel
Food Service Electronic Controls 957-960, 1245
Sensor 958-959
Valve, Electronic 959-960

Manufacturers are listed in blue

Carlyle
Compressor, Air Conditioning 122
Compressor, Refrigeration 115-121

Cart
National Refrigeration Products 1144

Cart, Torch 1119

Cash Acme
Hydronic Specialties 634-635

Caulking Gun 1096

Ceiling Diffuser
Airtec 491
Hart and Cooley 488-491
Rectorseal 488
Damper 488, 491

Centrotherm
Propylene Venting System 504-505

Century
Draft Inducer 15, 18, 27, 53, 55
Motor Accessory 49-51
Motor, General Purpose 12, 17, 22, 36, 44-46, 55
Motor, Heating 15, 17-18, 28
Motor, HVAC 4-5, 7, 12, 15, 17-23, 25, 27, 30-37, 49, 52-53
Motor, OEM Replacement 4-5, 7, 12, 14-15, 17-20, 27, 36-37, 49-50, 52-55
Motor, Refrigeration 4-5, 7, 14, 19, 41, 49

Channel, Support
Cooper B-Line 723-724
..... 722
Hardware 723-724

Charging
Hose 1026-1031
Manifold 1019-1023, 1025-1026
Scale 994-996

Chart Recorder
Temperature 991

Check Valve
Beckett 295
Danfoss 255
Mueller 254
Parker, Refrigerating Specialties 243
Superior 253-254
Watts 639
Commercial 243
Condensate Pump 295
Refrigerant 253-255
Water 639

Chem Penn
Scale 994

Chemical
Acid Neutralizer 1159
Aerosols 1161
Bacteriostat 1153
Cleaner 1150
Coil Cleaner 1150
Coil Protection 1415
Corrosion Control 1154, 1157-1158
Dehydrator 1176
Drain Line Cleaner 1122, 1153-1154
Drain Pan Corrosion 1153
Fire Stopping Sealant 1173
Glycol 1162
KleenFlush 1151-1152
Leak Detector 1160
Oil Additive 1176
Pipe-Dri 1424
Pump 1158
Pump Protection 1158
Scale Control 1157-1158
Tube Flush 1152

Chemical, Fuel, Treatment
Oil Absorber 1167
Soot Control 1429
Water Dispersant 1167

Chiller
Alfa Laval 308
Drake 501, 503-511
Flat Plate 308
Westermeyer 307
Barrel, Shell and Tube 307
Brazed Plate 308
Packaged, Screw, Water Cooled 501
Split System Condenser 510
Split System Evaporator, Scroll, Remote 505-509
Split System Evaporator, Semi-Hermetic, Remote 503-504
Split System Tank 511

Chimney Liner
Z-Flex 615-616

Circuit Breaker
ESP 906

Circulator Pump 624, 630-631

Clamp
"C" 726
Beam 726
Hose 1134
Tubing, Channel 722-723

Manufacturers are listed in blue

CLC
Bucket 1082
Tool Tote 1081
Tray 1082

Cleaner
National Chemicals 1151-1152
Nu-Calgon 1150-1151
Degreaser 1152
General Purpose 1150
Ice Machine 1151
Scale Dissolver 1156

Clen-Air
Air Freshener 1176
Degreaser 1152
Drain Pan Treatment 1154
Glycometer 1162
Hand Cleaner 1141

Closer
Door, Refrigerator 365, 386

Coil Cleaner
Diversitech 1154
National Chemicals 1146-1149
Nu-Calgon 1146-1147, 1149-1151
Rectorseal 1150
Refrigeration Technologies 1148, 1161
All Purpose 1148-1150
Condenser 1146-1148, 1150-1151, 1161
Evaporator 1148-1150

Coil Protector
Nu-Calgon 1415
Refrigeration Technologies 1161

Collar
B Vent 503
Ductboard 516
Ductboard, Spin 516-517
Sheet Metal, Spin 514
Trunk 525
Wall Stack 527

Collar, Surfaire 499

Combustible Gas Detector
Macurco 878

Combustion Air Ventilator
Field Controls 614

Combustion Tester 1001-1002

Compressor Reference
Copeland 1178-1179

Compressor, Air Conditioning
Bitzer 113-114
Brainerd 125-129
Carlyle 122
Copeland 59-60, 64, 66, 68-73, 78, 82-83, 87-89, 91, 93, 132
Danfoss 100
Maneurop 101
NCP 71
Remanufactured Carlyle 133, 164
Tecumseh 98-99
Adapter 133
Hermetic 78, 98, 101
OEM Replacement Pack 71
Open 129
Rotary 99
Screw 113-114
Scroll 59-60, 64, 66, 68-69, 71-73, 100
Scroll, Tandem 70-71
Semi-Hermetic 83, 87-88, 122, 125-128
Semi-Hermetic, Discus 82, 89, 91, 93
Semi-Hermetic, Service Valve 132-133, 164
Service Valve 133

Compressor, Refrigeration
Bitzer 107-113
Blissfield 131
Brainerd 123-124
Carlyle 115-121
Copeland 58-60, 62-66, 68, 72-85, 87-89, 91, 132, 134
Danfoss 124
Embraco 103-106
Maneurop 101-102
Remanufactured Carlyle 133, 164
Tecumseh 94-97
Adapter 133
Hermetic, Commercial 95
Hermetic, Extended Medium 74, 77, 80
Hermetic, High 75-76, 80, 96
Hermetic, Low 74-75, 78-80, 97, 102
Hermetic, Medium 58, 74, 76-77, 80, 96, 101
Open 120-121, 130-131
Screw 112-113
Scroll 59-60, 62-66, 68, 72-73
Semi-Hermetic 81, 83-85, 87-88, 107-112, 115-121, 123-124
Semi-Hermetic, Discus 82, 89, 91
Semi-Hermetic, Service Valve 132-134, 164
Service Valve, Rotolock 133-134
Sight Glass Tool 134

Condensate Pan Heater
Supco 930-931

Condensate Pump
Beckett 289-290, 295
Blue Diamond 291-292
International Refrigeration Products 290

Manufacturers are listed in blue

Little Giant 288
Refco 291
Sauermann 291
Miniature 290-292

Condenser
Air Cooled 156, 161, 302
Water Cooled, Coaxial 183-184, 187, 189, 191
Water Cooled, Shell and Tube 185, 188, 190
Water Cooled, Shell and Tube, Marine 185, 189

Condenser Pad
Diversitech 409
Mainstream Engineering 410

Condensing Unit, Refrigeration, Air Cooled
Bohn 160, 276-282, 302
Copeland 168-174, 320
Larkin .....
Tecumseh 96, 176-178
Trenton Refrigeration 147-149, 152-155, 209-220
Hermetic, Indoor 96, 168-169, 176-178
Hermetic, Outdoor 155, 160, 302
Scroll, Indoor 170-172
Scroll, Outdoor 147-149, 152-154, 173-174, 320
Semi-Hermetic 154, 211-220
Semi-Hermetic, Indoor 154
Semi-Hermetic, Outdoor 209-220, 276-282

Condensing Unit, Refrigeration, Remote Air Cooled
Trenton Refrigeration 234
Semi-Hermetic, Indoor 234

Condensing Unit, Refrigeration, Water Cooled
Copeland 174-175
Tecumseh 178
Trenton Refrigeration 155, 237-239
Hermetic, Indoor 174-175, 178
Scroll, Indoor 237-238
Semi-Hermetic, Indoor 155, 239

Conduit
Strap 937-938

Conduit, Plastic
Fitting 931
Tubing 931

Connector, Electrical
BX 937
Romex 937-938

Contactor
Sprecher + Schuh 911-912

Contactor, Definite Purpose
Copeland 914
Eaton 912-914
International Refrigeration Products 914-915

Container Bracket
Nu-Calgon 1158

Continental
Fish Files .....
Freezer 592, 595
Refrigerator 591-593, 595-596, 604
Sandwich Unit .....
Warmer .....

Control Enclosure
System Sensor 876

Control Hose
International Refrigeration Products 782
Johnson Control 784
NRP 782-783
Ranco 783

Control Valve
J/B Industries 1033, 1035
Yellow Jacket 1033

Control, Air Flow
Dwyer 867
Johnson Control 866
Robertshaw 867
Switch, Differential 866-867

Control, Electric Appliance
Robertshaw 846
Thermostat 846

Control, Environmental Systems
Honeywell 875
Panel 875

Control, Fan Speed
Johnson Control 784
Pressure 784

Control, Flame Safeguard
Honeywell 841-846, 1101, 1106
Flame Detector 843-844, 1106
Gas Pilot 844
Gas Valve 845-846
Pressure Switch 843
Primary 841-842, 1101
Programmer 841
Programmer Accessory 842
Signal Amplifier 843
Timer 843

Control, Gas Heating
Baso 811, 813-814, 816-818
Fenwal 818
Honeywell 808

Manufacturers are listed in blue

Honeywell Home 799-800, 803-805, 807-808, 810, 812, 815-816, 818, 820-821
ICM ... 818
Johnson Control ... 809
Robertshaw ... 799, 801-803, 805-806, 809-814, 817, 819-820, 822
White Rodgers ... 800-801, 806-808, 814-816, 819-820, 1074
Electrode ... 820
Flame Sensor ... 814, 820-821
Glow Coil ... 814
Ignition ... 814-819, 1074
Ignition Conversion ... 819, 823
Ignitor, Hot Surface ... 821-822
Ignitor, Spark ... 820
Pilot ... 810-811
Pilot Orifice ... 812
Pilot Relight ... 819
Retrofit Kit ... 820
Thermocouple ... 812-813
Thermocouple Adapter ... 813
Thermopile ... 812-813
Valve ... 799-809
Valve Accessory ... 809-810

Control, Heat Pump
Ranco ... 828
Defrost ... 828

Control, Humidity
ACI ... 870
Barber Colman ... 869
Johnson Control ... 869-870
Ranco ... 869
Sensor ... 869-870
Wall/Duct ... 869

Control, Hydronic
Belimo ... 837-838
Erie ... 836-837
Honeywell ... 833-834
Honeywell Home ... 829-833, 835, 839-840
Johnson Controls ... 831, 850
Taco ... 838-839
White Rodgers ... 832, 835-836
Oil Primary ... 840
Panel ... 838-839
Switching Relay ... 839
Temperature ... 829-832
Zone Valve ... 832-838, 850

Control, Oil
Honeywell Home ... 840
Flame Detector ... 840
Primary ... 840
Relay ... 840

Control, Pneumatic
Barber Colman ... 896
Honeywell ... 888-892
Johnson Control ... 879-882, 885-886, 1157
Kreuter ... 898-899
Powers ... 900, 1174
Robertshaw ... 893-894, 1169
Controller ... 882
Controller, Receiver ... 882, 890, 896, 1174
Controller, Reset Volume ... 898
Controller, Temperature ... 889
Flow Sensor ... 899
Humidistat ... 889
Relay ... 885-886, 891-892, 894, 898-899
Selector, High/Low ... 1157
Switch ... 891
Switch, Diverting ... 891
Switch, P/E ... 891, 1169
Thermostat ... 879-881, 888, 893, 898, 900
Transducer ... 885, 891
Transmitter, Humidity ... 889
Transmitter, Temperature ... 881-882, 889, 893

Control, Pneumatic, Accessory
Honeywell ... 892
Johnson Control ... 886-887
Robertshaw ... 895
Gauge ... 887
Oil Removal Filter ... 886
Pressure Gauge ... 895
Pressure Reducer ... 886, 892
Pressure Regulator ... 886
Thermometer ... 887

Control, Pneumatic, Fitting, Restrictor
Johnson Control ... 887

Control, Pneumatic, Pneumodular®
Robertshaw ... 894-895
Controller, Receiver ... 894
Relay ... 894-895

Control, Pressure
Danfoss ... 775, 955
Honeywell ... 868-869
Honeywell Home ... 868
Johnson Control ... 774-778, 780, 785-786, 884
Ranco ... 778-779, 781, 787
Supco ... 774-775
Compact ... 778
Dual ... 780-781
Electronic, Commercial ... 776, 785, 955
Electronic, System 350 (TM) ... 785
Encapsulated ... 774-775
Fan Cycling ... 776
High ... 777
Low ... 777-778
Low, Time Delay ... 776
Lube Oil ... 786-787

Manufacturers are listed in blue

Lube Oil, Electronic 786
Non-corrosive fluids 868-869
Pneumatic 884
SPDT 778
Steam 868

Control, Refrigeration Systems

Carel 957-960, 1245
Danfoss 955-956, 1239-1240
Emerson 952-954
Hussmann 964-965
KE2 962-963
Parker 950-951
Sporlan 948-949
Leak Detector 954, 1240
Pressure Transmitter 955
Relay 1239
Sensor 951-953, 956
System Controller 955-956
Transducer 951, 954, 1239
Transformer 954, 1239

Control, Sensor

ACI 873
Danfoss 871, 956
Honeywell 870-874
Johnson Control 871
CO2 874
Enthalpy 870
Humidity 870-871
Temperature 871-873, 951-953, 956
Temperature, Wall 871-872

Control, Temperature

Barber Colman 875
Bulb Well 760
Honeywell 758, 760-764, 766, 769-770
Honeywell Home 828
Johnson Control 757-760, 763-768, 775, 827
Mars 925-926
Ranco 758, 762-763, 765, 768, 771
Supco 925
White Rodgers 762, 766, 768, 952
2 Stage 759, 765
Alarm Flag 828
Appliance, Ice Bin Level 771
Bulb Well 760
Cooling Tower 759
Defrost Termination 765
Disc 925
Disc, Tube 925-926
Electronic 766-769, 952
Electronic, System 450 (TM) 775
Explosion Proof 764
Farm-stat, NEMA 4X 764
Freezestat 765-766
Freezestat, Alarm 766
High Range, Remote 827
Ice Bank 762
NEMA 4X 764
Proportional 770
Remote Bulb 757-758, 761-762
Space 763
SPDT 763
Wide Range 758

Control, Temperature, Appliance

Ranco 770-773
Air Conditioning 772-773
Ice Harvest 771
Refrigeration 770-771
Water Cooler 772

Control, Warm Air

Cam-Stat 826-827
Honeywell Home 826
International Refrigeration Products 928
Johnson Control 827
Mars 926-928
Supco 927-928
White Rodgers 826, 926-927
Compact, Fan 826-827
Compact, Fan/Limit 826
Compact, Limit 826
Disc, Fan 926
Disc, Fan, Adjustable 926
Disc, Limit 927-928
Disc, Limit, Adjustable 926
Duct 827
Fan/Limit 826
Firestat 827
Limit 826
Sequencer, Electric 928

Cool Gel 1129

Cooltube

Unit Cooler 303

Cooper

Tester, Temperature 983, 986-987
Thermometer 989-990, 1281

Cooper B-Line

Channel, Support 723-724, 982
Tubing Clamp 723

Copeland

Adapter 134
Application Manual 1178
Compressor, Air Conditioning ... 59-60, 64, 66, 68-73, 78, 82-83, 87-89, 91, 93, 132
Compressor, Refrigeration 58-60, 62-66, 68, 72-85, 87-89, 91, 132, 134
Condensing Unit, Refrigeration, Air Cooled 168-174, 320
Condensing Unit, Refrigeration, Water Cooled 174-175

Manufacturers are listed in blue

Contactor, Definite Purpose 914
Motor, OEM Factory 54
Oil, Refrigeration 320
Service Manual 1178-1179
Software 1181

Copper Strap 669

Copper Tubing
..... 286, 644-645, 647-649, 909-910
Insulated 646

Corrosion Control
Nu-Calgon 1157
Rectorseal 1158

Costguard
Water Filter 357, 364

Cotter Pin 1134

Coupler
Imperial 1036
J/B Industries 1035
NRP 1031-1032
Yellow Jacket 1035-1036
Antiblowback 1031, 1036

Coupler, Automotive
CPS 1026, 1032
Imperial 1026
Yellow Jacket 1026-1027

Coupling
Barb 708
Black Iron 695
Brass, Flare 676-677
Brass, Flare, Half Union 678
Compression, Brass 690-691
Flexible Gas 732-733
PVC 703
PVC, DWV 706
Quick Connect 671

CPS
Coupler, Automotive 1026, 1032
Leak Detector 998
Manifold, Service 1019
Scale 995
Service Tool Kit 1036
Tester, Vacuum 1017
Tool, Tubing 1038, 1042
Vacuum Pump 1015
Wrench, Digital 1061

Crankcase Heater
International Refrigeration Products 731
Mars 731, 929
Bar 929
Insertion 731, 929
Self Regulating 731

Crimper, Sheet Metal 1099

Crimper, Wire 453, 1056, 1058-1060

Critical Charge Hose
NRP 782

Crown
Boiler 602-605, 866

Curb, Roof Penetration 736

Current Sensing Relay
Aprilaire 904
Functional Devices 904-905
Johnson Control 904
Veris Industries 904

Cutter, Cable 453

Cutter, Hole 1100, 1107

Cutter, Tubing 1037, 1040-1041, 1044

Cutting Tip, Torch 1113

D

Daikin
Air Conditioning, Ductless-Split 449-452, 698-699, 701
Heat Pump, Ductless Split, VRV 455-456
Heat Pump, Ductless-Split 447-448, 696, 698-699, 701, 710

Damper
T-Bar Grill 499

Damper Regulator Set
Duro Dyne 544-545

Damper, Sheet Metal 531-532

Damper, Zone 546-547

Danfoss
ADAP-KOOL Control 955-956, 1239-1240
Check Valve 255
Compressor, Air Conditioning 100
Compressor, Refrigeration 124
Control, Sensor 871, 956
Drier Core 259-261, 269
Expansion Valve 205, 217-218, 220-222
Food Service Electronic Controls 871, 955-956, 1239-1240
Moisture Indicator 273

Manufacturers are listed in blue

Pressure Control 775, 779, 781, 787, 955
Pressure Regulating Valve 236
Refrigeration System Control 871, 956
Solenoid Operating Magnet 233
Solenoid Valve 232, 234
Suction Filter 450
Temperature Control 759
Valve, Check, Refrigerant 255

Data Logger
Temperature 992

Deburring Tool 1043-1044

Defrost Timer
Intermatic 792, 794
International Refrigeration Products 791
Johnson Control 798
Mars 797
Paragon 791-793, 798, 1053
Supco 798
White-Rodgers 797
..... 1053
Domestic 798
Electronic 793, 798
Heat Pump 797
Heavy Duty 798
Modular 793
Percentage 794

Degreaser
Clen-Air 1152
Diversitech 1152
National Chemicals 1152

Dehumidifier
Honeywell Home 582
Research Products 581
Thermal Zone 582
Portable 582
Whole House 581-582

Dehydrator
Highside 1176

Delavan
Nozzle 619-620

Delay Timer
ICM 795-796
Mars 795-798

Dielectric Union
Watts 639

Differential Pressure Switch
Dwyer 867
Johnson Control 866-867
United Electric Controls 868
Veris Industries 868
Liquid 867-868

Diffuser
Hart and Cooley 496-499
Ceiling 488-491
Ceiling, Damper 488, 491
T-Bar 496-499
T-Bar Frame 499

Disconnect, Electrical
Eaton 932
Mars 931-932
Siemens 931

Disinfectant
Diversitech 1154

Dispenser
Manitowoc 334
Scotsman 352
Servend 342-344, 557
Beverage Installation Kit 557
Beverage, Countertop 342-343
Beverage, Floor 344
Cup 344
Drink Valve 557
Ice, Countertop 343-344, 352
Ice, Floor 352
Ice/Water, Floor 334

Distributor, Refrigerant
Sporlan 223-224
Flare 224
ODM 223

Diversitech
Auxiliary Drain Pan 296
Condenser Pad 409
Degreaser 1152
Disinfectant 1154
Drain Pan Safety 993
Fitting, Access 718
Fitting, PVC 708
Furnace Mounting Block 568
Heat Transfer Fluid 1162
Leak Sealant 1171
Pan Tablets 1155
Smokeys 1167
Strapping 536, 1107-1108
Tool, Tubing 1034, 1044
Wet Switch 993
Wipe 1086

Divider 1069

Manufacturers are listed in blue

Dongan
Ignition Transformer....619

Door Alarm
Modularm....994

Door Heater
Supco....930

Door, Refrigerator/Freezer
Closer, Walk In....386
Hinge, Reach In....374-377
Hinge, Walk In....381-385
Latch, Reach In....373-374
Latch, Walk In....377-378, 380
Pull Handle, Walk In....387
Safety Release, Walk In....380-381

Draft Control
Field Controls....615

Draft Inducer
A.O.Smith....15, 18, 27, 53, 55
Fasco....14
Field Controls....614
Tjernlund....547
....14-15, 18, 27, 53, 55, 547, 614

Drain Heater
Supco....929-930

Drain Hose
International Refrigeration Products....293
Rectorseal....293

Drain Pan
Epoxy Sealant....1175

Drain Pan Safety
Diversitech....993
Rectorseal....423

Drain Pan, Auxiliary....296

Drain Solve
Nu-Calgon....1154

Drainview
Tank Drain....902

Drake
Chiller....501, 503-511

Drier
Danfoss....259-261, 269
Emerson Climate Technologies (Alco)....257-259, 261, 263-266, 268-269
Henry Technologies....269
International Refrigeration Products....267
Sherwood Valve....269
Sporlan....256-257, 260-262, 264-269
Core....268-269
Core Sock....269
Refrigeration Oil....276-277
Sealed, Flare....256-260
Sealed, Flare, Acid....260
Sealed, Heat Pump....261
Sealed, ODS....256-259
Sealed, ODS, Acid....260
Sealed, ODS, Compact....264
Sealed, ODS, Suction....262-263
Sealed, ODS, Suction, Compact....262
Shell....264-266
Shell Bracket....269
Shell, Brass....266
Shell, NPT....267
Shell, Suction....265
Spun Copper....267

Drill Bit
Double End....1106

Driver
Hex....1105
Nut....1052, 1342-1343

Droplight....1093

Duct
Flexible....535, 540
Flexible Connector....543
Flexible, Insulated....537-539, 800-801
Rigid, Metal Pipe....506-507, 772
Rigid, Oval....529
Rigid, Trunk....524
Rigid, Wall Stack....527

Duct Adhesive
Nu-Calgon....1174

Duct Board....805

Duct Booster....547

Duct Connector
Duro Dyne....543

Duct Fan Heater....547-548

Duct Furnace
Reznor....598
Indoor, Gas....598

Duct Holder....1099

Duct Liner....540

Manufacturers are listed in blue

Duct Sealant
Hardcast ... 542

Duct Stretcher ... 1097

Duct Tape ... 1137-1138

Duct Tensioner ... 536

Duct Tie
NRP ... 536

Duct Wrap ... 541

Ductmate Industries ... 410

Duro Dyne
Damper Regulator Set ... 544-545
Duct ... 543
Insulation Fastener ... 545-546
Regulator Hardware ... 544-545
Strap, Vinyl ... 537
Vane Rail ... 543

Dwyer
Control, Air Flow ... 867
Tester, Air Flow ... 1003, 1006-1007

Dye, Refrigerant ... 1160

Dynamic
Air Cleaner ... 569

Dynesic
Drain Pan Sealant ... 1175

E

Eaton
Contactor, Definite Purpose ... 912-914
Disconnect Mounting Block ... 932
Pipe Cradle ... 721

ECM Motor Tester
Supco ... 991

Ecobee
Thermostat, Digital ... 749

Edge Eyewear
Safety Glasses ... 1073-1075

Egg Crate ... 497

Eklind
Hex Set ... 1055

Elbow
B Vent ... 501
Barb ... 708
Black Iron ... 696-697
Brass, Flare ... 679-680
Brass, Flare, Half Union ... 680
Flare ... 679-681
Flare, Reducing ... 680
Oval ... 529
Pipe, Black Iron ... 696
PVC ... 704-705
PVC, DWV ... 707
Quick Connect ... 671
Reducing, Wrot Copper ... 666
Sheet Metal ... 508
Trunk ... 525
Wall Stack ... 527-528
Wrot Copper ... 665-666, 696

Elbow, 45 Degree
Black Iron ... 697
PVC ... 705
PVC, DWV ... 707
Wrot Copper ... 666-667

Elbow, Half Union, Compression ... 691

Elco
Motor, OEM Replacement ... 7
Motor, Refrigeration ... 5

Electrical Hardware
NRP ... 937-939
Box ... 939
Box Cover ... 939
Bushing ... 937
BX Connector ... 937
Conduit Strap ... 937-938
Connector ... 453, 937-938
Plug ... 938
Receptacle ... 939
Switch, Toggle ... 939
Switch, Wall ... 939
Washer ... 937

Electrical, Solderless Terminal
NRP ... 940-942
Bullet ... 941
Butt ... 940
Dead End ... 940
Female Flag ... 940
Kit ... 942
Ring ... 941
Slip-On, Female ... 940-941
Slip-On, Male ... 941
Spade ... 941
Tab ... 941

Manufacturers are listed in blue

Electrode 820

Element, Electric Heat
- *Mars* 929
- *Supco* 929
- Repair 929
- Thermal Cutoff 929

Embraco
- Compressor, Refrigeration 103-106

Emerson
- Food Service Electronic Controls 952-954
- Leak Detection 954
- Liquid Line Filter 259
- Sensor 953-954

Empire Comfort
- Furnace, Gas, Residential 601

EPA Testing
- *Mainstream* 1181

Epoxy Adhesive
- *Laco/Markal* 1174
- *Loctite* 1174
- *NRP* 1175
- Drain Pan Sealant 1175

Equipment Rail
- *Portals Plus* 736

Erie
- Control, Hydronic 836-837

ESCO
- Books, Text 1179-1180

ESP
- Circuit Breaker 906
- Fire Stopping Sealant 1173
- Furnace Legs 568
- Nut Driver 1052
- Roof Cement 1175
- Sight Glass Tool 134
- Smoke Signal 1167

ESSI
- Refrigerant Journal 1181

Evaporative Cooler
- *Phoenix Manufacturing* 474-475
- Commercial 475
- Residential 474-475

Evaporator
- *Bohn* 157-159, 259-263
- *Heatcraft* 163-167
- *Larkin* 162, 290
- *LRC Coil* 180-181
- *Peerless* 179
- *Trenton Refrigeration* 136-146, 168, 176
- Mullion, Air Defrost 165-166
- Mullion, Electric Defrost 167
- Reach In, Air Defrost 163-165, 167-168, 179, 303
- Reach In, Electric Defrost 164, 168
- Walk In, Air Defrost 139, 141-144, 157-159, 162, 259-260, 290
- Walk In, Air Defrost, Low Velocity 145-146
- Walk In, Electric Defrost 157-159, 162, 261-262
- Walk In, Electric Defrost, Low Velocity 136-140, 145, 176
- Walk In, Hot Gas Defrost 263
- Walk In, Low Velocity, Air Defrost 180-181
- Walk In, Low Velocity, Electric Defrost 136, 138-140, 145, 176

Everpure
- Scale Treatment 361
- TDS Meter 361
- Water Filter 356-364

Exhaust Fan
- *Floaire* 548-549
- Damper 549

Expansion Tank 631-633

Expansion Valve
- *Danfoss* 205, 217-218, 220-222
- *Emerson Climate Technologies (Alco)* 198, 207-208, 212-213, 215-216, 218-220, 375
- *Sporlan* 198-207, 209-214, 219-223, 949
- Balanced Port, Flare 205-208
- Balanced Port, ODF 205-206, 208, 211-212
- Cartridge Style 215
- Cartridge Style, Accessories 219
- Cartridge Style, Cage 218, 220
- Cartridge Style, Element 213, 218
- Cartridge Style, Flange 219
- Cartridge Style, Flare 213-214, 216, 218
- Cartridge Style, Kits 220
- Cartridge Style, ODF 213-214, 216-218, 221-222
- Cartridge Style, Orifice 216-217, 219-220, 222
- Charge Element 220-221
- Electronic Stepper 222-223, 949
- Flare 198, 200-203, 375
- Modulating 222
- ODF 198-200, 203-204, 207, 209-210, 212-213
- ODF, Flanged 202-204
- OEM, Heat Pump 207, 209, 211
- Temperature Responsive 205

Extension Cord 1093

Manufacturers are listed in blue

F

Fan
Klein Tools ... 1144

Fan Belt
Browning ... 563-566
Cog ... 564-565
Tension Analyzer ... 566

Fan Blade
Hussmann ... 964
Lau Industries ... 549-552
Supco ... 552
Hub ... 551-552
Hubbed, Small ... 552
Hubless ... 552
Large Diameter ... 551
Pitch Gauge ... 554
Plastic ... 552

Fan Center
Honeywell Home ... 907
Mars ... 907
RBM ... 907

Fan Control
Compact ... 826-827
Disc ... 926

Fan Speed Control
Pressure ... 784

Fan/Limit Control
Compact ... 826
Insertion ... 826

Fasco
Blower Wheel ... 553
Draft Inducer ... 14
Motor Accessory ... 49-50
Motor, General Purpose ... 11, 14-17, 22
Motor, Heating ... 15, 18
Motor, HVAC ... 16-17, 22, 29
Motor, OEM Replacement ... 12, 14-15, 17-18, 27, 31, 33, 51-53, 55-56
Motor, Refrigeration ... 3, 8, 12-13, 17, 36
Skeleton Motor ... 14

Fenwal
Control, Gas Heating ... 818

FHP Bosch
Water Source Heat Pump ... 609

Field Controls
Combustion Air Ventilator ... 614
Draft Control ... 615
Draft Inducer ... 614
Power Venter ... 614
UV Purification ... 574
Vent Hood ... 614

Fieldpiece
Inspection Mirror ... 1087
Leak Detector ... 998
Manifold, Service ... 980
Multimeter ... 972-974
Psychrometer ... 980
Scale ... 995
Tester, Air Flow ... 1005-1006
Tester, Combustion ... 1002
Tester, Electrical ... 976, 978-979
Tester, Pressure ... 1270
Tester, Temperature ... 980, 983, 985-986, 988
Vacuum Pump ... 1015

File ... 1069

Filter
Honeywell Home ... 593-594
Purolator ... 587-588
Foam, Bulk ... 595
Foam, Pad ... 595
Glass, Bulk ... 594
Glass, Disposable ... 582-584
Hog Hair, Bulk ... 594
Hog Hair, Pad ... 595
Oil ... 617
Pleated, Disposable ... 586-594, 848
Polysynthetic, Bulk ... 594
Polysynthetic, Disposable ... 584-586
Refrigerant Oil ... 276-277

Filter Grill
Hart and Cooley ... 484-485, 494-495, 497
Commercial ... 494-495
T-Bar ... 497

Filter Rack ... 534

Filter, Fuel ... 617

Filter, Water
Beverage Applications ... 357-358
Coffee Applications ... 357-358
Ice Applications ... 356-357, 359
In-Line ... 364
Parts ... 362
Reverse Osmosis ... 360-361
Shell/Cartridge ... 357, 364
Specialty Cartridge ... 361-362
Steam Applications ... 358, 360

Fin Straightener ... 1094-1095

Manufacturers are listed in blue

Fire Extinguisher
Kidde Safety 1144

Firestat 827

Firomatic
Fusible Valve 617

Fish Files
Continental .....

Fitting, Access
Anchor 718
Diversitech 718
International Refrigeration Products 717-718
J/B Industries 714-718
Supco 714, 718
Bulkhead 717
Clamp On 718
Core 717
Flare 715-717
MPT 716
No Vent Cap 714, 718
ODF 714-715, 717-718

Fitting, Black Iron
Bushing 695
Cap 698
Coupling 695
Coupling, Reducing 695
Elbow 696-697
Floor Flange 698
Nipple 696
Plug 698
Tee 697-698
Union 698

Fitting, Braze Free 671-674

Fitting, Flexible Gas
Omegaflex 732-734
Tracpipe 732-734
Coupling 732-733
Manifold 734
Shield 734
Tee 733

Fitting, Forged Brass, Compression
Cap 691
Coupling 690
Coupling, Half Union 691
Elbow 690
Elbow, Half Union 691
Nut 690
Sleeve 690
Tee 691

Fitting, Forged Brass, Flare
Yellow Jacket 1034
Bonnet 683, 745
Cap 682
Coupling 676-677
Elbow 679-680
Elbow, Half Union 680
Elbow, Sweat Union 681
Fitting Reducer 677
Half Union 678
Nut 676
Plug 682
Reducer 677
Seal 683
Sweat Union 679
Tank Adapter 683, 1034
Tee 681-682

Fitting, Forged Brass, Pipe
Bushing 688
Bushing, Cast 688
Coupling 688, 690
Elbow 688-689
Fitting 689
Nipple 687
Plug 679, 689
Plug, Fusible 689
Street Elbow 688
Tee 689

Fitting, Galvanized Iron
Cap 700
Coupling 699
Elbow 700
Nipple 699
Plug 700
Tee 700
Union 699

Fitting, Pneumatic 692-694

Fitting, Push-In
John Guest 710-712
Connector 710-712
Elbow 710-712
Plug 710
Reducer 710
Tee 710-712
Union 710-712

Fitting, PVC DWV
Coupling 706
Elbow 707
Tee 707

Fitting, PVC Sch 40
Bramec 705

Manufacturers are listed in blue

Adapter, Pipe Thread 704
Bushing 703
Cap 705
Cap, Pipe Thread 705
Coupling 703
Elbow 704-705
Plug 705
Plug, Pipe Thread 706
Tee 705
Trap 706
Union 706

Fitting, PVC, Barbed
Diversitech 708
Mars 708
Coupling 708
Elbow 708

Fitting, Roof Penetration
Portals Plus 734-736
Curb Cover 735
Flashing 734-736

Fitting, Wrot Copper
Sporlan 672-674
..... 684-686, 934
Adapter, Pipe Thread 663-664
Bushing Reducer 663
Coupling 662
Coupling, Reducer 662
Elbow 665-667
P-Trap 669
Return Bend 668
RLS Refrigerant Press Fitting 672-674
Strap 669
Tee 667
Tee, Reducing 667
Tube Cap 668
Tube Strap 669
Union Coupling 668

Flame Guard
NRP 1121

Flame Sensor
Supco 821
..... 820-821
Cleaner 821
Mercury 814

Flange Kit
Henry 255
Parker, Refrigerating Specialties 245
Commercial Valve 245, 255

Flange Sealant
Loctite 1171-1172
Refrigeration Technologies 1172

Flaring Tool 1038-1041, 1044

Flashing, Roof
B Vent 502-503

Flashlight
International Refrigeration Products 1091
Klein 1090, 1092
Nebo 1087-1090
Sensible Products 1091
Battery 1091
Utility 1087-1091

Flat Plate
Chiller, Brazed Plate 308

Flexible Ducting
Hart and Cooley 540
Aluminum 535
Cutter 536
Insulated 537-539, 800-801
Uninsulated, Polyester 540

Flexible Gas Tubing 732

Floaire
Exhaust Fan 548-549

Float Valve
Watts 286-287
Evaporative Cooler 287
Float Ball, Copper 287
Float Ball, Plastic 287
Stem 286
Stem Adapter 287
Tank 286

Floor Register
Hart and Cooley 478-479

Flow Balancer 638

Flow Switch
Honeywell 827
Honeywell Home 828
Johnson Control 865-866
McDonnell Miller 865-866
Air 827-828, 866
Air, Differential 866-867
Liquid 865-866

Flue Gas Venting System
Impex 701-702
Cement 702
Concentric Vent Kit 702
Coupling 701-702
Elbow 701
Gas Vent Pipe 702

Manufacturers are listed in blue

Primer 702
Tee 702
Termination Kit 702

Fluke
Laser Measuring Tool 992
Multimeter 970-973
Tester, Airflow 1004
Tester, Electrical 974-979, 1270
Tester, Humidity 987
Tester, Temperature 985-987
Thermometer, Digital 983
Thermometer, Infrared 981
Voltage Tester 975

Flux
Harris 1128
Highside 1128
Laco/Markal 1128
Rectorseal 1129
Brazing 1127-1128, 1394
Solder 1128-1129

Foam Insulation
Aerosol 1173

Folding Tool 1097

Food Service Electronic Controls
Carel 957-960, 1245
Danfoss 871, 955-956, 1239-1240
Emerson 952-954
KE2 Thermo Solutions 962
Parker 950-951
Electronic Expansion Valve 958-960, 963
Leak Detector 954, 1240
Pressure Transmitter 955
Relay 1239
Sensor 871, 951-953, 956
System Controller 950-952, 955-959, 962, 1245
Transducer 951, 954, 1239
Transformer 954, 1239

FPPF
Water Dispersant 1167

Frame, Sheetrock
Hart and Cooley 499
Sidewall 535
T-Bar Ceiling 499

Freezer
Continental 592, 595
Reach In, Solid Door 595
Under Counter .....

Freezestat 765-766, 926

Fresh Air Intake 535

Fresh Air Ventilation
Honeywell Home 572-573
Research Products 572

Functional Devices
Current Sensor 904-905
Relay, Switching 910

Furnace
Guardian 421
Duct, Indoor, Gas 598
Mobile/Manufactured Home 421

Furnace Elevator
Diversitech 568
ESP 568

Furnace, Gas, Residential
Arcoaire 407-409, 424-430, 610
Empire Comfort 601
Thermal Zone 431-432
1 Stage, 80% 424, 426-428, 431-432
1 Stage, 90+% 429
1 Stage, 95% 428
2 Stage, Variable Speed, 80% 424, 430
2 Stage, Variable Speed, 96% 425, 430
Accessories 407-409, 610
Control Module 818
Direct Vent Wall 601
Direct Vent, Wall 601

Furnace, Oil, Residential
Arcoaire 408-409, 433-434
Accessories 408
High Profile 433-434

Fuse
Bussmann 933-937
Supco 936-937
Cover 937
Holder 937
In-line 936
Puller 937
Test Instrument 978
Testing Kit 936-937

Fusible Valve
Firomatic 617

G

Gas Cock 622

Manufacturers are listed in blue

Gas Connector
Watts 622, 885

Gas Generator 1405

Gas Pilot 810-811

Gas Pilot Orifice 812

Gas Regulator
Maxitrol 824-825

Gas Vent, Flexible
Hart and Cooley 500

Gas, Industrial 1114, 1125

Gasket
Holm 296, 483
Refrigerator Door 296, 483

Gauge
Pressure 282

Gauge, Pressure
International Refrigeration Products 1007
Weiss 1007-1008
Westermeyer 282
Yellow Jacket 1006
Ammonia 1008, 1025
Back Flange 1007
Boot 1025
Liquid Filled 1008
Manifold 1024-1025
Pneumatic 887
Torch Replacement 1118

GE
Motor, HVAC 24-26
Motor, OEM Replacement 15, 51, 53-54
Motor, Refrigeration 4, 7, 10

General
Oil Filter 617

Glove
Ansell 1071
Klein 1071
NRP 1070

Glow Coil 814

Glycol
National Chemicals 1162
Nu-Calgon 1162

Grease
Fitting 1096
Food Grade Silicone 322
Gun 1096

Grill
Commercial, Return 494
Filter, Commercial 494-495
Return Air 483-484
Return Air, Filter 484-485
Toe Space 480
Transfer 493

Grundfos
Pump 626

Guard, Thermostat 754-755

Guardian
Furnace, Mobile Home 421

H

Hago
Nozzle 618-619

Hammer 1098

Hand Cleaner
ClenAir 1141
Nu-Calgon 1141
Scrubs 1141

Handle
Torch 1109

Handle, Torch 1110

Hanger
"C" Clamp 726
Beam Clamp 726
Threaded Rod 727
Tubing, A Band 725
Tubing, Clevis 725
Tubing, Insulator 719
Tubing, Split Ring 726
Tubing, Van 726

Hankinson
Air Drier 902

Hard Hat
Klein Tools 1072

Hardcast
Duct Sealant 542
Line Set Wrap 1136

Manufacturers are listed in blue

Hardware
Malco 1134
NRP 1130-1134
Anchor Kit 1132-1133
Bolt 1130
Bolt, Toggle 1132
Cotter Pin 1134
Hose Clamp 1134
Molly Screw 1132
Nut 1131
Register Screw 1134
Set Screw 1132
Shaft Key Stock 1133
Sheet Metal Screw 1131-1134
Washer 1130

Harris
Brazing Alloy 1126-1127
Flux 1128
Solder 1127-1128, 1394

Hart and Cooley
B Vent 500-503
Ceiling Diffuser 488-491
Ceiling Frame 499
Diffuser 496-499
Filter Grill 494-495, 497
Flex Duct Cradle 540
Floor Register 478-479
Gas Vent 500
Perforated Face 496
Register 480-483, 485-487, 492-494
Return Air Filter Grill 484-485
Return Air Grill 483-484
Return Grill 494, 497, 499
T-Bar Grill 499
Toe Space Grill 480
Touch Up Paint 495
Transfer Grill 493

Hartell
Pump Safety Switch 293

Headlamp
International Refrigeration Products 1091-1092

Hearing Protection
NRP 1072

Heat Exchanger
Packless 184

Heat Gun
Yellow Jacket 1142

Heat Pump
Control 828
Drier 261
Reversing Valve 828-829

Heat Pump, Packaged
Arcoaire 438-439, 445-446
Electric Backup 438-439, 445-446
PTAC 457
Water Cooled 469, 471-472

Heat Pump, Split System
Arcoaire 395-400
Daikin 447-448, 455-456, 696, 698-699, 701, 710
Sea Breeze 401-405
Thermal Zone 406
Condenser 395-400, 406
Ductless 399-405, 447-448
Ductless, VRV 455-456

Heat Recovery
Paul Mueller 611
Hot Gas to Water 611

Heat Shrink Tube 945

Heatcraft
Unit Cooler, Air Defrost 163-167
Unit Cooler, Electric Defrost 164, 167

Heater
Infrared 599
Unit, Electric 862
Unit, Indoor, Gas 862
Water, Gas 606-607

Heater Cable
International Refrigeration Products 730
Pentair 730-731

Heater, Condensate Pan 930-931

Heater, Crankcase
International Refrigeration Products 731
Mars 731, 929
Self Regulating 731

Heater, Door 365, 930

Heater, Drain 929-930

Henry
Drier 269
Muffler 285
Oil, Refrigeration, Components 277-279, 282
Valve 276
Valve, Relief, Refrigerant 253
Valve, Relief, Refrigerant/Ammonia 255
Valve, Shutoff, Refrigerant 249-251
Valve, Shutoff, Refrigerant/Ammonia 255

Manufacturers are listed in blue

Hex
Key 1052-1055
Magnetic Driver 1054, 1101, 1105

Highside
Dehydrator 1176
Solder Flux 1128
Thread Sealant 1170

Hinge
Door, Refrigerator 365, 375-377, 381-385

Hoffman Specialty
Hydronic 635

Hole Saw
Milwaukee 1101, 1104

Holm
Gasket 296, 483

Honeywell
Actuator, Commercial 834-835, 855-863, 890
Control, Environmental Systems 875
Control, Flame Safeguard 841-846, 1101, 1106
Control, Gas Heating 808
Control, Hydronic 833-834
Control, Pneumatic 888-892
Control, Pneumatic, Accessory 892
Control, Pressure 868-869
Control, Sensor 870-874
Control, Temperature 758, 760-764, 766-767, 769-770
Flow Switch 827
Pilot Valve 845
Reference Manual 1180
Thermostat, Digital 752-754
Thermostat, Electromechanical 753-754
Valve, Commercial 847-848, 892

Honeywell Home
Actuator, Commercial 859
Air Cleaner 569-570
Backflow Preventer 637
Control, Gas Heating 799-800, 803-805, 807-808, 810, 812, 815-816, 818, 820-821
Control, Hydronic 829-833, 835, 839-840
Control, Oil 840
Control, Pressure 868
Control, Temperature 760, 828
Control, Warm Air 826
Dehumidifier 582
Fan Center 907
Filter Media 593-594
Flow Switch 828
Fresh Air Ventilation 572-573
Humidifier 580
Hydronic Specialty 633-634, 639
Pump 630
Relay, Switching 908-910
Thermostat 755
Thermostat, Digital 739, 741-748, 752-753
Thermostat, Electromechanical 738, 753
Thermostat, Wireless 739, 747-748, 751
Timer, Furnace Delay 796-797
Transformer 905-906
Ultraviolet 574, 836
Zone Controls 546-547, 751-752

Hood, Condensing Unit 182

Hook
Klein Tools 1108

Hose
Yellow Jacket 1027

Hose, Control
International Refrigeration Products 782
Johnson Control 784
NRP 782-783
Ranco 783

Hose, Fuel Gas 1119

Hose, Garden
..... 1141
Accessory 1142
Fitting 1142
Nozzle 1142

Hose, Refrigerant Service
NRP 1027-1031
Yellow Jacket 1026, 1031, 1033
Ammonia 1026
Anti-Blowback 1028
Ball Valve 1028, 1030
Gasket 1031
Heavy Duty 1029-1030
Repair Kit 1031
Standard 1027
Vacuum 1029-1030
Valve Opener 1033

Hot Surface Ignitor 821-822

Humidifier
Aprilaire 579-580
Honeywell Home 580
Research Products 579-580
Trion 580
Bypass 579-580
Power 579
Power, Steam 580
Universal Solenoid 581

Manufacturers are listed in blue

Humidistat 869

Hussmann
- Door 965
- Evaporator Coil 964
- Fan Blade 964
- Heater 965
- Merchandiser 367-369
- Motor 964
- Parts 965
- Relay 964
- Thermostat 965
- Thermostatic Expansion Valve 965

Hydra-Zorb
- Bronco Pipe Saddle 721
- Tubing Clamp 722

Hydronic
- ***Amtrol*** 631
- ***Bell and Gossett*** 633, 635-638
- ***Cash Acme*** 634-635
- ***Hoffman Specialty*** 635
- ***Honeywell Home*** 633-634, 639
- ***Watts*** 631, 633-638
- ***Webstone*** 632
- Air Purge Valve 633
- Air Vent Valve 633-635
- Expansion Tank 631-633
- Feed Water Regulator 636
- Flow Balancer 638
- Flow Control Valve 638
- Pressure Reducing Valve 635-636
- Pressure Regulating Valve 636-637
- Pressure Regulating Valve, Steam 637
- Pressure Relief Valve 634-636
- Relief Valve 635
- Steam Trap 637
- Temperature Pressure Relief Valve 635
- Tempering Valve 638-639
- Vacuum Breaker 638

Hydronic Coil
- ***Aquecoil*** 420

Ice Machine
- ***KoolAire*** 338-341
- ***Manitowoc*** 324-333, 335-337
- ***Scotsman*** 345-355
- Accessory 354-355
- Accessory, Water Filter 355
- Condensing Unit 333
- Dispenser 334, 342-344, 352
- Dispenser, Nugget, Countertop 352
- Line Set 328, 340, 349
- Modular, Cube 324-328, 333, 338-340, 345-349
- Modular, Flake 329-330, 351
- Modular, Nugget 330, 352
- Modular, Remote Low 332
- Remote Condenser 340, 349
- Self Contained, Cube 331, 341, 350
- Self Contained, Flake 331, 351
- Self Contained, Nugget 331, 351
- Storage Bin 335, 337, 341, 353
- Treatment 336
- Water Filter 336

Ice Machine Cleaner
- ***National Chemicals*** 1151
- ***Nu-Calgon*** 1151
- General Purpose 1151
- Nickel Safe 1151
- Sanitizer 1151

ICM
- Delay Timer 795-796
- Furnace Control Module 818
- Thermostat 926
- Voltage Monitor 903

ICP Commercial
- Air Conditioning, Packaged 417

Idec
- Delay Timer 796
- Relay, Switching 796, 909

Ignition Control
- ***Baso*** 816-818
- ***Fenwal*** 818
- ***Robertshaw*** 814, 817, 819
- ***White Rodgers*** 814-816, 1074
- Pilot Relight 819
- Retrofit 820

Ignition Transformer 619

Ignitor, Hot Surface
- ***Honeywell Home*** 821
- ***Robertshaw*** 822
- ***Supco*** 821-822
- ***White Rodgers*** 822-823
- Robertshaw 822

Imperial
- Coupler 1036
- Coupler, Automotive 1026
- Kwik-Charge® 1036
- Manifold, Service 1019
- Tool, Tubing 1038-1044

Manufacturers are listed in blue

Impex
Flue Gas Venting System....701-702

Increaser
B Vent....501

Inficon
Carbon Monoxide Tester....1002
Combustion Tester....1001
Leak Detector....997, 999, 1290
Scale....994, 996
Tester, Vacuum....1017

Infrared Heater
Reznor....599
High Intensity....599

Inspection Mirror
Fieldpiece....1087
NRP....1087

Insulation
Armacell....659-660
Nu-Calgon....1424
Elastomer, Adhesive....661
Pipe-Dri....1424
Sheet Elastomer....660
Tubing, Elastomer....650-659
Tubing, Polyethylene....659-660

Insulation Fastener
Duro Dyne....545-546

Insulation Foam
Aerosol....1173

Insulation Sleeve....540

Insulation, Reflective
Reflectix....541

Intermatic
Defrost Timer....792, 794
On/Off Timer....793-794, 1054
Spring Wound Interval Timer....795
Surge Protection....932

International Refrigeration Products
Air Conditioner....457-459, 719
Brush....1093-1095
Capacitor....920-924
Condensate Pump....290
Condenser Riser....670, 729
Contactor, Definite Purpose....914-915
Control Hose....782
Crankcase Heater....731
Cush-a-Block®....725
Defrost Timer....791
Drain Hose....293
Drier....267
Drop In Threaded....1133
Fitting, Access....717-718
Flashlight....1091
Freeze Protection Control....925-926
Gas Generator....1405
Headlamp....1091-1092
Heat Sequencer....928
Heater Cable....730
Infrared Temperature Tester....981
Kit....1132
Mini-Split Wall Control....453
Motor, HVAC....20, 28
Motor, OEM Replacement....
Motor, Refrigeration....2, 5-8
Pressure Gauge....1007
Pump....288
Relay....907-908
Relay, Start Assist....917-918
Rooftop Support System....725
Self Drill....1133
Tapcon....1133
Thermometer....988-991
Thermostat Guard....754-755
Tool, Hand....1094
Tool, Tubing....1043
Tool, Valve Core....1033
Transformer....906
Tubing Clamp....723
Vibration Eliminator....670
Vibration Pad....1134-1135
Web Strapping....1107
Wedge....1133
Wet Switch....993

Invensys
Actuator, Commercial....860, 862-864
Control, Humidity....869
Control, Temperature....875

J

J/B
Control Valve....1033, 1035
Coupler....1035
Fitting, Access....714-718
Leak Detector....999
Manifold, Service....1020-1021, 1025
Scale....994-995
Tester, Vacuum....1016
Tool, Valve Core....1032-1033
Tubing....223
Vacuum Pump....1012-1014

Manufacturers are listed in blue

John Guest
Accessories 713
Fitting, Push-In 710-712
Tubing 713
Valve 713

Johnson Control
Actuator, Commercial 850, 854-855, 859, 882-883
Control Hose 784
Control, Air Flow 866
Control, Fan Speed 784
Control, Gas Heating 809
Control, Humidity 869-870
Control, Hydronic 831, 850
Control, Pneumatic 879-882, 885-886, 1157
Control, Pneumatic, Accessory 886-887
Control, Pneumatic, Fitting 887
Control, Pressure 774-778, 780, 785-786, 884
Control, Sensor 871
Control, Temperature 757-760, 763-768, 775, 827
Control, Warm Air 827
Current Sensing Relay 904
Defrost Timer 798
Differential Pressure Switch 867
Flow Switch 865-866
Level Switch 866
Thermostat, Electromechanical 754
Transformer 905, 907
Valve, Commercial 847, 883-885
Variable Speed Drive 1189, 1194
Water Regulating Valve 787-790

K

Kason
Refrigerator Hardware 373-387, 607

KE2 Therm Solutions
Food Service Electronic Controls 961-963
Refrigeration System Control 962-963
Valve, Electronic 963

Kickstart
Relay, Start Assist 918

Kidde Safety
Fire Extinguisher 1144

Klein Tools
Adjustable Wrench 1062-1063
Aviation Snip 1098
Bag 1075, 1080-1081
Cutter 1345
Fan 1144
Flashlight 1090, 1092
Glove 1071
Hard Hat 1072
Hex Key Set 1053-1055
Hook 1108
Knee Protection 1072-1073
Knife 1066-1068
Mask 1356
ModBox 1082-1083
Nut Driver 1050-1052, 1343
Plier 1056-1057
Saw 1067
Screwdriver 1045-1050, 1083-1085, 1106
Storage 1076
Tape Measure 1070
Tester, Electrical 980
Thermometer, Infrared 981
Tool, Duct Board 1100
Tool, Hand .. 1045-1046, 1048, 1053-1055, 1058-1061, 1063-1066, 1068, 1084-1085, 1102, 1105
Voltage Tester 975
Wall Rack 1076
Wire Stripper 944, 1056, 1059

Klo-shure
Tube Hanging Insulator 719-720

Knee Protection
Klein Tools 1072-1073
NRP 1072

Knife
Klein Tools 1066-1068
NRP 1065-1066
Duct Board 1100
Shiplap, Sled 1100
Utility 1065-1068, 1100

Koldwave
Air Conditioner 459-461

KoolAire
Ice Machine 338-341

Krack
Fan Accessories 966
Motor 966

Kreuter
Actuator, Commercial 899
Control, Pneumatic 898-899

Kwik-Charge®
Imperial 1036

Manufacturers are listed in blue

L

Label, Refrigerant 317

Laco/Markal
- Epoxy Adhesive 1174
- Solder 1128-1129
- Thread Sealant 1170

Lancaster
- Pump 628

Larkin
- Air Cooled Condenser 302
- Condensing Unit, Refrigeration, Air Cooled .....
- Motor, OEM Factory 52
- Unit Cooler 162, 290

Laser Measuring Tool
- *Fluke* 992

Latch
- Door, Refrigerator 373-374, 377-378, 380

Lau Industries
- Blower Assembly 555
- Blower Wheel 553-554
- Fan Blade 549-552
- Shaft Bearing 561-562
- Shaft Stock 555

Leak Detector
- *Bacharach* 996, 998-999
- *CPS* 998
- *Fieldpiece* 998
- *Inficon* 997, 999, 1290
- *J/B Industries* 999
- *National Chemicals* 1160
- *NRP* 1160
- *Nu-Calgon* 1160
- *Refrigeration Technologies* 1160
- *Robinair* 998
- *Spectroline* 999-1000
- *Yellow Jacket* 1001
- Combustible Gas 999, 1006
- Halide 1120
- Liquid 1160
- Refrigerant 996-999, 1290
- Refrigerant, UV 999-1001

Leak Sealant
- *Diversitech* 1171
- *National Chemicals* 1170
- *Nu-Calgon* 1171

Leeson
- Motor, Refrigeration 40, 45, 47

Legs
- Ice Machine 354

Level 1354

Level Switch
- *Johnson Control* 866

Lift, Material 1142-1143

Light Bulb 1093

Light Fixture 379

Limit Control
- Compact 826
- Disc 926-928
- Insertion 826

Line Set, Insulated 453, 646

Liquid Line Filter
- *Emerson Climate Technologies (Alco)* 259

Little Giant
- Condensate Pump 288
- Transfer Pump 293

Loctite
- Anti-Sieze 1171
- Epoxy Adhesive 1174
- Flange Sealant 1171-1172
- Thread Sealant 1168-1169

Low Water Cutoff
- *McDonnell Miller* 641

LRC Coil
- Unit Cooler, Wine Storage 180-181

Lubricant
- *WD40* 321
- Aerosol Spray 321
- Thread 1171

Lutz
- Screwdriver 1046

M

Macurco
- Carbon Monoxide Detector 878
- Combustible Gas Detector 878

Manufacturers are listed in blue

Mainstream
Acid Treatment ... 1159
Condenser Pad ... 410
EPA Testing ... 1181
QwikSwap ... 27
Terminal Repair Kit ... 940, 942

Malco
Hardware ... 1134
Mini Brake ... 1097
Tool, Duct Board ... 1100
Tool, Hand ... 536, 1052, 1069, 1095, 1343
Tool, Machine ... 1054, 1101, 1105-1106
Tool, Sheet Metal ... 1069-1070, 1097-1099, 1107
Tool, Tubing ... 1043

Maneurop
Compressor, Air Conditioning ... 101
Compressor, Refrigeration ... 101-102

Manifold
Flexible Gas ... 734

Manifold, Service
CPS ... 1019
Fieldpiece ... 980
Imperial ... 1019
J/B Industries ... 1020-1021, 1025
NRP ... 1018, 1024
Testo ... 1021-1023
Yellow Jacket ... 1019-1020, 1024-1026
Ammonia ... 1025
Automotive ... 1026
Digital ... 980, 1021-1023
Gauge ... 1024-1025
Gauge Boot ... 1025
Gauge, Ammonia ... 1025
Refrigerant ... 1018-1021
Strap ... 1023
Vacuum ... 1016

Manitowoc
Dispenser ... 334
Ice Machine ... 324-333, 335-337

Manometer
Dwyer ... 1003, 1006-1007
Fieldpiece ... 1005-1006
Supco ... 1005
Testo ... 1006
Yellow Jacket ... 1003, 1007

Marathon
Motor, Exhaust Ventilator ... 42
Motor, General Purpose ... 43-44
Motor, HVAC ... 22, 31, 38-39

Marker ... 1143

Mars
Capacitor ... 925
Control, Temperature ... 925-926
Control, Warm Air ... 926-928
Crankcase Heater ... 731, 929
Defrost Timer ... 797
Delay Timer ... 795-798
Disconnect, Electrical ... 931-932
Element, Electric Heat ... 929
Fan Center ... 907
Mini-Split Control ... 453
Motor ... 7
Overload ... 920
Relay, Start Assist ... 919-920, 1200
Relay, Switching ... 907-909
Remote Control ... 453
Shoe Cover ... 1071

Mask
Klein Tools ... 1356

Mason
Vibration Damper ... 1135

Mastic
RCD ... 542

Maxi-Vac
Sprayer ... 1165
Tube Cleaner ... 1166-1167

Maxitrol
Gas Regulator ... 824-825

McDonnell Miller
Flow Switch ... 865-866
Low Water Cutoff ... 641
Pump Control ... 641
Water Feeder ... 640-641

Megohmeter
Supco ... 974

Merchandiser
Hussmann ... 367-369

Milwaukee
Hole Saw ... 1101, 1104
Reciprocating Blade ... 1102-1104

Mineral Oil ... 318-319

Mini-Split Bib
Nu-Calgon ... 1163

Mirror, Inspection ... 1086-1087

Manufacturers are listed in blue

ModBox
Klein Tool....1082-1083

Modularm
Door Alarm....994

Moisture Indicator
A1....273
Danfoss....273
Emerson Climate Technologies (Alco)....272-273
Sporlan....271-272
Supco....273
Flare....271-273
ODS....272-273

Monkey Fingers....1108

Motor Accessory
Century....49-51
Fasco....49-50
Mainstream Engineering....27
U.S. Motors/Nidec (Emerson)....49-51
Adapter Plate....51
Base....49
Bracket....50-51
Capacitor Bracket....51
ECM Tester....991
Mounting Hardware....49-51
QwikSwap....27
Rainshield....51
Rheem Butt Plate....51, 1165
Shaft Bushing....50
Thru-Bolt....51

Motor Starter
Siemens/Furnas....916

Motor Tester
Supco....991

Motor, General Purpose
Century....12, 17, 22, 36, 44-46, 55
Fasco....11, 14-17, 22
International Refrigeration Products....11
Marathon....43-44
U.S. Motors/Nidec (Emerson)....43, 45, 47-48
Belt Drive....43-45, 47-48
Belt Drive, 3 Phase....46-48
Fan, 3 3/8....2, 22
Fan, 3 3/8"....11-12, 14-15, 17, 22, 36, 55
Fan, 4 5/16"....16

Motor, Heating
Beckett, R.W.....40
Century....15, 17-18, 28
Fasco....15, 18
U.S. Motors/Nidec (Emerson)....40
Blower, 5"....17, 28
Draft Inducer, 3 3/8"....15, 18
Oil Burner....40

Motor, HVAC
Century....4-5, 7, 12, 15, 17-23, 25, 27, 30-37, 49, 52-53
Fasco....16-17, 22, 29
GE....24-26
International Refrigeration Products....20, 23, 28, 34
Marathon....22, 31, 38-39, 42
Packard....2
U.S. Motors/Nidec (Emerson)....18-19, 21, 23-26, 28-29, 33-34, 37-38
Blower, 5 5/8"....20-26, 28, 31
Blower, 5"....12, 17, 36
Condenser Fan, 3 Phase....36-38
Condenser Fan, 5 5/8"....15, 29-35, 49, 52
Condenser Fan, 5"....19
Condenser Fan, 6 1/2"....12, 17, 36-39
Exhaust Ventilator, C-Face....42
Fan Coil, Double Shaft, 4 5/16"....16
Fan Coil, Double Shaft, 5 5/8"....15, 18, 27, 53
Fan Coil, Double Shaft, 5"....15, 17-18, 27, 53
Fan, 4 5/16"....17, 19
Fan, 5 5/8"....4-5, 7, 20, 49
Fan, 5"....

Motor, OEM Factory
Bohn....52
Copeland....54
Larkin....52
Tecumseh....55
Bohn....52
Copeland....54
Larkin....52
Tecumseh....55
Trenton....55

Motor, OEM Replacement
Century....4-5, 7, 12, 14-15, 17-20, 27, 36-37, 49-50, 52-55
Elco....7
Fasco....12, 14-15, 17-18, 27, 31, 33, 51-53, 55-56
GE....15, 51, 53-54
International Refrigeration Products....12
NRP....4-5, 49
U.S. Motors/Nidec (Emerson)....7, 39, 49
HVAC....15, 17-19, 27, 31, 33, 51-56
Refrigeration....4-5, 7, 12, 14, 17, 20, 36-37, 49-51

Motor, Refrigeration
Century....4-5, 7, 14, 19, 41, 49
Elco....5
Fasco....3, 8, 12-14, 17, 36
GE....4, 7, 10
International Refrigeration Products....2, 5-8
Leeson....40, 45, 47
Mars....7
NRP....2

Manufacturers are listed in blue

Packard 3-4, 8-10
U.S. Motors/Nidec (Emerson) 6, 8, 41
Carbonator Pump 40-41
Condenser Fan, 5" 19
Electronically Commutated 6-10, 14, 49
Evaporator, 3 3/8 ..... 12, 17, 36
Fan, 4" 13
Skeleton 2, 14
Unit Bearing/Watt 2-7, 9, 49
Unit Bearing/Watt, Reversible, PSC 4

Mounting Bracket
Ductmate Industries 410
IRP/Plastiduct 670, 729
Condenser 410
Mini-Split 454, 621
Riser 670, 729

Mueller
Check Valve 254
Compressor Service Valve 133, 164
Rupture Disc 253
Shutoff Valve 249-251

Muffler
Henry Technologies 285
Refrigeration Research 285

Multimeter
Fieldpiece 972-974
Fluke 970-973
Testo 982
Digital 970-972
Digital, Clamp-On 972-974

Mushroom Cooling Units 726

N

National Chemicals
Acid Neutralizer 1159
Aerosols 1161
CO2 Gun 1170
Coil Cleaner 1146-1149
Degreaser 1152
Glycol 1162
Ice Machine Cleaner 1151
Leak Detector 1160
Leak Sealant 1170
Roof Sealant 1175
Scale Dissolver 1156

National Lubricants
Oil, Refrigeration 318-319

National Refrigeration Products
Cart 1144
Shop Vac 1143

NCP
Air Conditioning, Packaged 473
Air Conditioning, Split, Residential 461-462
Compressor, Air Conditioning 71

Nebo
Flashlight 1087-1090

Nipple
Black Iron 696
Brass 687

No Vent Cap 714, 718

Notcher 1098

Nozzle, Oil 619

NRI
Pail 1082
KleenFlush 1151-1152
Oil Analysis 317
Refrigerants 310-317

NRP
Cable Tie 536
Control Hose 782-783
Coupler 1031-1032
Critical Charge Hose 782
Electrical Hardware 937-939
Electrical, Solderless Terminal 940-942
Epoxy Adhesive 1175
Flame Guard 1121
Glove 1070
Hardware 1130-1134
Hearing Protection 1072
Hose, Refrigerant Service 1027-1031
Knee Protection 1072
Leak Detector 1160
Manifold, Service 1018, 1024
Motor, OEM Replacement 4-5, 49
Motor, Refrigeration 2
Oil Pump 1097
Oil, Lubricating 320
Refrigerant Molecular Transformator 1010
Refrigerant Recovery 1009, 1018
Refrigerants 317, 1306
Rope 1095
Safety Glasses 1073
Sealing Gum 1173
Sealtight 931
Sprayer 1163-1164
Tape 1140

Manufacturers are listed in blue

Terminal Repair Kit 942
Test Lead 945
Threaded Rod Anchor 727
Tool Box 1082
Tool, Sheet Metal 1098
Tool, Tubing 1129
Tool, Valve Core 1034-1035
Torch, Accessory 1113, 1116-1121, 1124, 1385
Torch, Air-acetylene 1115-1118
Torch, Oxy-acetylene 1109-1111
Vacuum Pump 1013, 1015
Valve, Refrigerant Control 1032
Vest 1071
Wire 943-945

Nu-Calgon
Acid Test Kit 274
Aerosols 1161
Air Purifier 574, 576-577
Bacteriostat 1153
Cleaner 1150
Coil Cleaner 1146-1147, 1149-1151
Coil Protector 1415
Container Bracket 1158
Corrosion Control 1157
Drain Solve 1154
Duct Adhesive 1174
Glycol 1162
Hand Cleaner 1141
Ice Machine Cleaner 1151
Leak Detector 1160
Leak Sealant 1171
Lubricant 321
Mini-Split Bib 1163
Oil Pump, Hand 322
Oil, Refrigeration 320, 1159
Pan Pads 1153
Pan Tablets 1154-1155
Pipe-Dri 1424
Pump 1158
Pump Protector 1158
Refrigerant Dye 1160
Scale Control 1157-1158
Scale Dissolver 1156
Sealant 1174
Solder 1128
Spray Lubricant 321
Sprayer 1163-1164, 1166
Tool, Air 1124
Tube Flush 1152
Water Filter 364

Nut
Flare 676
Flare, Reducing 676
Hex 1131
Hex, Machine 1131
Wire 944

Nut Driver
ESP 1052
Klein Tool 1050-1052, 1343
Malco 1052, 1343
NRP 1342
Supco 1052

O

OEM
Compressor Replacement Pack 71

Oil Absorber
Rectorseal 1167

Oil Additive
Supco 1176

Oil Dry 1086

Oil Exchange Valve
Henry Technologies 276

Oil Pump, Hand
NRP 1097
Nu-Calgon 322
Yellow Jacket 1097

Oil, Fuel, Specialties
Beckett, R.W. 617-618
Delavan 619-620
Dongan 619
General 617
Suntec 620
Burner 409, 617-618
Filter 617
Ignition Transformer 619
Nozzle 618-620
Nozzle Wrench 620
Pump 620

Oil, Lubricating
Kano 321
NRP 320

Oil, Refrigeration
Copeland 320
National Lubricants 317-319
Nu-Calgon 320, 1159
Acid Neutralizer 1159
Acid Test 274
Alkylbenzene 318
Mineral 318
Mineral, Capella 319

Manufacturers are listed in blue

Polyol Ester 318-320
Polyvinylether 320
Testing 317
Vacuum Pump 319, 1016

Oil, Refrigeration, Components

Emerson Climate Technologies (Alco) 275-277, 279, 283
Henry Technologies 277-279, 282
Refrigeration Research 283-284
Sporlan 275-276
Temprite 278, 282
Westermeyer 275, 277, 279-282, 284
Filter 276-277
Filter Drier 276-277
Level Regulator, Mechanical 275-278
Level Sensor 278
Level Sensor, Electronic 277
Reservoir 275, 280-281
Separator 278-282
Separator Parts 282
Sight Glass 273, 277
Suction Accumulator 283-284

Oil, Vacuum Pump

National Lubricants 319
Welch 1016

Omegaflex

Fitting, Flexible Gas 732-734
Tubing 732

Overload

Mars 920
Supco 920

P

Package Terminal Air Conditioner

Heat Pump 457

Packard

Capacitor 921-922
Motor, Evaporator Fan 2
Motor, General Purpose, 3 3/8" 2
Motor, Refrigeration 3-4, 8-10

Packless

Heat Exchanger 184
Water Cooled Condenser 183-184

Pad

Condenser 409-410

Paint

Hart and Cooley 495
Plastikote 1143
SKM Industries 1143
Marker 1143
Spray 1143
Touch Up, Register 495

Pan Pads

Clen Air 1154
Nu-Calgon 1153

Pan Tablets

Diversitech 1155
Nu-Calgon 1154-1155

Panning 535

Paragon

Defrost Timer 791-793, 798, 1053

Parker, Micro Thermo Technologies

Food Service Electronic Controls 950-951
Pressure Sensor 951
Temperature Sensor 951

Parker, Refrigerating Specialties

Check Valve 243
Flange Kit 245
Pressure Regulating Valve 242-244, 246
Solenoid Valve 245-246
Strainer 242

Patch Cord

Yellow Jacket 939

Paul Mueller

Heat Recovery 611

Peerless

Unit Cooler 179

Pelouze

Scale, Platform 1085

Pentair

Heater Cable 730-731

Perforated Face

T-Bar 496

Phoenix Manufacturing

Evaporative Cooler 474-475

Pilot Relight 819

Pilot Tubing 812

Pilot Valve 845

Pilot Valve, Gas

Baso 844-845
Honeywell 845

Manufacturers are listed in blue

Pipe
B Vent 500

Pipe Cradle 721

Pipe Wrench 1061-1062

Pipe, Black Iron 695

Pitch Gauge 554

PlastiDuct
Condenser Riser 670, 729
Tubing Shroud 728-729

Plastikote
Paint 1143

Plenum 532-533

Plier
Adjustable 1056-1057
Diagonal Cutter 1058
Locking 1057
Longnose 1056

Plug
Black Iron 698
Brass, MPT 689
Flare 682
Fusible, Flare 689
PVC 705-706

Plug, Electrical
..... 938
Pigtail 938

Plug, Test 1044

Pneumatic
Fitting 692-694
Tubing 901-902

Polyol Ester Oil 318-320

Polypropelyne Venting System
Centrotherm 504-505

Polyvinylether Oil 320

Portals Plus
Equipment Rail 736
Fitting, Roof Penetration 734-736
Roof Curb 736

Posi Lock
Fan Blade Puller 554

Potential Relay 919-920

Power Venter
Field Controls 614
..... 614
Control Kit 614

Powers
Actuator, Commercial 900
Control, Pneumatic 900, 1174

Pressure Control
Danfoss 775, 779, 781, 787, 955
Honeywell 868-869
Honeywell Home 637, 868
Johnson Control 774-778, 780, 785-786, 884
Ranco 778-779, 781, 787
Supco 774-775
Compact 778
Dual 780-781
Electronic 776, 785, 955
Encapsulated 774-775
Fan Cycling 776, 779
High 777, 779
Low 776-778
Lube Oil 786-787
SPDT 778-779

Pressure Gauge
International Refrigeration Products 282, 1007
Weiss 1007-1008
Westermeyer 282
Yellow Jacket 1006
Ammonia 1008
Back Flange 1007
Liquid Filled 1008

Pressure Regulating Valve
Danfoss 236
Parker, Refrigerating Specialties 242-244, 246
Sporlan 235-242
Condenser Flood 236-237
Crankcase 238
Differential 240, 243
Discharge Bypass 235-236, 239
Discharge Bypass, Element 236
Evaporator 238-240, 244
Evaporator Step 241
Inlet 243
Inlet, Commercial 242
Outlet 243-244
Repair Kit 241-242, 246

Pressure Sensor
Carel 958-959
Danfoss 956

Pressure Switch 868-869

Manufacturers are listed in blue

Primary Control
Flame Safeguard....841-842, 1101

Printer
Meter Output....1024

Propane....1125

Psychrometer
Fieldpiece....980
Yellow Jacket....979

Pulley
Browning....555-560
Fixed Pitch....557-560
Variable Pitch....555-556

Pump
Aspen....290
Beckett....289-290, 295
Bell and Gossett....624-625, 629-630
Grundfos....626
Honeywell Home....630
International Refrigeration Products....288
Lancaster....628
Little Giant....293
Nu-Calgon....1158
Taco....626-627, 630
Webstone....631
Acid....1158
Condensate....288-291
Condensate, Miniature....290
Hydronic Circulator....624-627, 629-631
Liquid Refrigerant Transfer....1306
Transfer....293
Vacuum....1012-1015
Water, Centrifugal....628

Pump Control
McDonnell Miller....641

Pump Protector
Nu-Calgon....1158

Pump Safety Switch
Beckett....294
Hartell....293

Pump-Ups
Bramec....410

Punch, Snap Lock....1099

Purolator
Filter....587-588

PVC
Cement....709
Fitting, DWV....706-707
Fitting, Sch 40....703-706
Flue Gas Venting System....701-702
Primer....709
PVC, DWV....707
Tubing, Sch 21....703
Tubing, Sch 40....703

Q

Quick Connect Fittings
RLS Refrigerant Press Fitting....672-674
SB1....671

Quick-Sling
Mini-Split Stand....454, 621

R

Radiator Key....639

Rag....1085-1086

Ranco
Control, Heat Pump....828
Control, Humidity....869
Control, Pressure....778-779, 781, 787
Control, Temperature....758, 762-763, 765, 768, 771
Control, Temperature, Appliance....770-773
Hose, Control....783
Reversing Valve....828-829

RBM
Fan Center....907

RCD
Mastic....542

Reach-In Unit Cooler
Heatcraft....163-167
Peerless....179
Trenton Refrigeration....168
Air Defrost....163-167, 179, 303
Electric Defrost....164, 167-168

Receiver, Refrigerant
Alfa Laval....186
Refrigeration Research....285
Westermeyer....191-193
Horizontal....186, 285
Vertical....191-193, 285

Receptacle, Electric....939

Manufacturers are listed in blue

Reciprocating Blade
Milwaukee 1102-1104

Rectorseal
Acid Neutralizer 1159
Aerosols 1161
Ceiling Diffuser 488
Coil Cleaner 1150
Corrosion Control 1158
Drain Hose 293
Drain Line Cleaner 1154
Drain Pan 296
Drain Pan Safety 423
Mountaing Bracket 454
Oil Absorber 1167
Solder 1129
Solvent, PVC 709
Soot Remover 1429
Thread Sealant 1169

Reducer
Brass, Flare 677
Sheet Metal 511

Refco
Condensate Pump 291
Inverter Check Kit 976

Reference Manual
Honeywell 1180
Controls Service 1180
Flame Safeguard 1180

Reflectix
Insulation, Reflective 541

Refractometer
Glycol 1162
Refrigerant Oil 322

Refrigerant
NRI 310-317
NRP 317, 1306
Gases 310-316
Labels 317
Recovery 1009-1010, 1018
Recovery/Recycling Units 1306
Testing 316-317

Refrigerant Dye
Highside 1160

Refrigerant Journal
ESSI 1181

Refrigerant Molecular Transformator 1010

Refrigerant Recovery
NRP 1009, 1018

Refrigeration Research
Muffler 285
Oil, Refrigeration, Components 283-284
Receiver, Refrigerant 285

Refrigeration Technologies
Coil Cleaner 1148, 1161
Coil Protector 1161
Flange Sealant 1172
Food Grade Silicone 322
Heat Blocking Putty 1129
Leak Detector 1160
Wipe 1085

Refrigerator
Bally 365
Beverage-Air 370-371
Continental 591-593, 595-596, 604
Kason 373-387, 607
Traulsen 372
True Mfg 370
Door Hinge, Walk In 381-383
Reach In, Door Hinge 374-377
Reach In, Door Latch 373-374
Reach In, Glass Door 595-596
Sandwich Unit 592-593, 604
Shelf Hardware 378-379
Temperature Alarm 607
Under Counter 591-592
Walk In, Accessory 365
Walk In, Door Closer 365, 386
Walk In, Door Hinge 381-382, 384-385
Walk In, Door Latch 377-378, 380
Walk In, Hinge 365, 381, 385
Walk In, Light Fixture 379
Walk In, Parts 365
Walk In, Pull Handle 387
Walk In, Safety Release 380-381
Walk In, Vent Port 383

Refrigerator Door Gasket 296, 483

Register
Hart and Cooley 480-483, 485-487, 492-494
Baseboard 480-481
Commercial, Curved Blade 492
Commercial, Supply 493-494
Floor 478-479
Frame 535
Supply 486-487
Supply, Curved Blade 482-483
Supply, Flush 485-486

Regulator
Acetylene 1119
Fuel Gas 1113, 1121

Manufacturers are listed in blue

Nitrogen 1113, 1121
Oxygen 1119

Regulator Hardware
Duro Dyne 544-545
Access Door Lock 545
Hinge 545
Instrument Test Port 545

Rehvac
Tool, Air 1122-1123, 1388

Relay
Pneumatic 892, 894-895

Relay, Start Assist
International Refrigeration Products 917-918
Kickstart 918
Mars 919-920, 1200
Supco 917-919
Current 917, 1200
Potential 919-920
Potential, Adjustable 919
Push On 917
Relay/Capacitor 918-919
Relay/Capacitor/Overload 917-918
Relay/Overload 917
Start Assist 918

Relay, Switching
Functional Devices 910
Honeywell Home 908-910
Idec 796, 909
International Refrigeration Products 907-908
Mars 907-909
..... 796, 907-910
Cover 907
Electric Heat 908, 910
Relay-In-A-Box 910

Relief Valve
Henry Technologies 253
Superior 252-253
Refrigerant 252-253

Research Products
Air Cleaner 569, 571
Dehumidifier 581
Fresh Air Ventilation 572
Humidifier 579-580

Return Air Filter Grill 484-485

Return Air Grill 483-484

Return Bend
Wrot Copper 668

Return Grill
Hart and Cooley 483-485, 494, 497, 499
Commercial 494
T-Bar 497, 499

Reversing Valve
Ranco 828-829

Reznor
Duct Furnace 598
Infrared Heater 599
Unit Heater 598-601, 862

RGF
Air Purification System 578, 581
Air Purifier 573, 577-578, 581

Rigid
Tool, Hand 1040, 1062
Wrench, Adjustable 608-609, 1062

Riveter, Hand 1069

RLS
RLS Refrigerant Press Fitting 672-675

RLS Refrigerant Press Fitting
Ball Valve 674
Cap 673-674
Coupling 672
Crimping Tool Kit 675
Elbow 672-673
P-Trap 673
Pressing Jaw 674-675
Reducer 673
Tee 673
Y-Joint 673

Robertshaw
Control, Air Flow 867
Control, Electric Appliance 846
Control, Gas Heating 799-803, 805-806, 809-814, 817, 819-820, 822
Control, Pneumatic 893-894, 1169
Control, Pneumatic, Accessory 895
Control, Pneumatic, Pneumodular® 894-895
Ignition Control 819

Robinair
Leak Detector 998

Roof Cement
ESP 1175

Roof Curb, Tubing Portal
Portals Plus 736

Roof Flashing 734-736

Roof Sealant
National Chemicals 1175

Manufacturers are listed in blue

Room Heater, Vented.....

Rope
NRP.....1095

Rotolock
Alfa Laval.....194-195
Westermeyer.....134
Adapter.....133, 194-195
Service Valve.....133, 195
Valve.....133

Rule, Tape.....1070

Rule, Tinners.....1070

Rupture Disc
Mueller.....253

Ruud
Water Heater.....606-607
Water Heater, Tankless.....408, 608, 610

S

Saddle Valve
Supco.....286

Safety Glasses
Edge Eyewear.....1073-1075
NRP.....1073

Safety Switch
Aquaguard.....294-295
Pump Overflow.....293-295

Sail Switch.....827-828, 866

Sandwich Unit
Continental.....

Sauermann
Condensate Pump.....291

Saw
Hand.....1067-1068

SB1
Quick Connect Fittings.....671

Scale
Chem Penn.....994
CPS.....995
Fieldpiece.....995
Inficon.....994, 996
J/B Industries.....994-995
Pelouze.....1085
Supco.....996
Testo.....996
Yellow Jacket.....995
Digital.....996
Digital, Charging.....994-996
Mechanical, Platform.....1085

Scale Control
Everpure.....361
Nu-Calgon.....1157-1158

Scale Dissolver
Apex Engineering.....1156
National Chemicals.....1156
Nu-Calgon.....1156

Schaeffer
Brush.....1094-1095

Scotsman
Dispenser.....352
Ice Machine.....345-355

Scraper, Gasket.....1353

Screw
Molly.....1132
Register.....1134
Set.....1132
Sheet Metal.....1131-1134

Screwdriver
Klein.....1045-1046
Lutz.....1046
NRP.....1045-1046
Demolition.....1046
Multi Bit.....1047-1050, 1083-1085, 1106
Phillips.....1046
Slotted.....1045-1046
Terminal Block.....1045

Sea Breeze
Air Conditioner.....457, 719
Heat Pump, Ductless-Split.....401-405, 413
Mini-Split Wall Control.....453

Seal
Copper, Flare.....683

Sealant
Nu-Calgon.....1174
All Purpose.....1170
Flange.....1171-1172
Pipe Repair.....1174-1175
Thread.....1168-1170

Sealing Gum
NRP.....1173

Manufacturers are listed in blue

Sealtight
NRP 931
Southwire 453
Fitting 453, 931
Tubing 931

Seamer, Hand 1099

Sensible Products
Fan Blade Puller 554
Flashlight 1091
Inspection Mirror 1087

Sensor, Electronics
Carel 958-959
Danfoss 956
Emerson 953

Sequencer, Electric Heat 928

Servend
Beverage Installation Kit 557
Dispenser 342-344, 557

Service Manual
Copeland 1178-1179

Shaft Bearing
Browning 562-563
Lau Industries 561-562
Ball 562-563
Pillow Block 561-562
Sleeve 561
Thrust Collar Kit 562
Thrust Sleeve Kit 562
Thrust Spacer Kit 562

Shaft Bushing 50, 555

Shaft Key 1133

Shaft Stock
Lau Industries 555

Sheave
Browning 555-560
Fixed Pitch 557-560
Variable Pitch 555-556

Sheet Insulation
Elastomer 660

Sheet Metal
Acme 536
Arcoaire 532-534
Thermal Zone 532-534
Box, "B" 522
Box, "C" 522
Box, Ceiling Diffuser 522-523
Box, Ceiling Diffuser, 90 Degree 523
Box, Floor 521
Box, Funnel 522
Box, Insulated 523
Box, Return Air 534
Brake 1097
Cap 512
Chimney Cap 535
Cleat, "S" 531
Cleat, Drive 531
Collar, Spin 514
Collar, Spin, Ductboard 516-517
Collar, Tab 513-514
Collar, Tab, Ductboard 516
Damper 531-532
Damper Section 531
Drawband 531
Elbow 508
Filter Channel 536
Filter Rack 534
Flex Duct Connector 535
Fresh Air Intake 535
Panning 535
Pipe 506-507, 772
Plenum 532-533
Reducer 511
Register Boot, 45 Degree 521
Register Boot, 90 Degree 519-520
Register Boot, End 520
Register Boot, Straight 521
Register Head 528
Return Air Drop 533
Return Air Support 534
Takeoff 512-513
Takeoff, Adhesive 519
Takeoff, Collar, Adhesive 517-519
Takeoff, Side 512
Takeoff, Top 514-515
Takeoff, Top, Adhesive 517
Takeoff, Top, Ductboard 515-516
Takeoff, Top, Elbow 515
Tee 509
Tee, Swivel 510
Vent Hood 536
Wye 509-511, 775

Sheet Metal, Oval
Boot, End, Round, 90 Degree 530
Boot, Reverse, 90 Degree 530
Boot, Round, 90 Degree 530
Boot, Round, Straight 530
Elbow, 45 Degree 529
Elbow, 90 Degree 529
Pipe 529
Stack Head, Thinwall 530
Takeoff, Top 530

Manufacturers are listed in blue

Sheet Metal, Trunk
Adapter....526
Angle, 45 Degree....524
Angle, 90 Degree....525
Duct....524
End Cap....526-527
Reducer....526
Start Collar....525
Transition....526

Sheet Metal, Wall Stack
Angle, 45 Degree....527
Angle, 90 Degree....527-528
Boot, 90 Degree....528
Boot, Center End....528
Boot, Straight....528
Collar....527
Register Head....528-529
Trunk....527

Shelf Hardware....378-379

Sherwood Valve
Drier....269
Valve, Check, Refrigerant....253-254
Valve, Relief, Refrigerant....252-253
Valve, Shutoff, Refrigerant....248

Shield
Flexible Gas....734

Shoe Cover
Mars....1071
NRP....1071

Shook
Hex Driver....1105

Shop Vac
National Refrigeration Products....1143

Siemens
Disconnect, Electrical....931

Siemens/Furnas
Motor Starter....916

Sight Glass
Bullseye....277
Moisture Indicator....270-273

Silicone Sealant....1172-1173

SKM Industries
Paint Marker....1143

Slotted Angle....725

Smoke Detector
System Sensor....875-877
Accessory....876-877
Duct....875-876

Smoke in a Can
ESP....1167

Smoke Signal
Diversitech....1167

Snip
Klein....1098
Malco....1098
NRP....1098
Aviation....1098

Software
Copeland....1181
Electrical Handbook....1181

Solder
Harris....1127-1128, 1394
Highside....1128
Laco/Markal....1128-1129
Nu-Calgon....1128
Rectorseal....1129
Refrigeration Technologies....1129
Accessory....1128-1129
Flux....1128-1129, 1394
Lead Free....1127

Solenoid Valve
Danfoss....232, 234
Emerson Climate Technologies (Alco)....229-233
Parker, Refrigerating Specialties....245-246
Sporlan....224-229, 233-234, 245
Coil....229, 231-232
Commercial, Coil....246
Heat Reclaim....228
Hot Gas....229
Industrial....227
R410A....226-227
Refrigerant....224-227, 229-231
Refrigerant, Rapid Cycle....228
Repair Kit....233-234
Secondary Coolant....228, 245
Secondary Coolant, Coil....245
Service Magnet....233

Solvent, PVC
Rectorseal....709
Cement....709
Primer....709

Soot Remover
Rectorseal....1429

Manufacturers are listed in blue

Southwire
Cable Cutter 453
Sealtight 453

Spectroline
Leak Detector 999-1000

Speedclean/Coiljet
Sprayer 1164-1165

Spin
Flaring Set 1040

Sporlan
Acid Test 274
Auxiliary Side Connector 236
Ball Valve 247
Distributor, Refrigerant 223-224
Drier 256-257, 260-262, 264-269
Expansion Valve 198-207, 209-214, 219-223, 949
Moisture Indicator 271-272
Oil, Refrigeration, Components 275-276
Pressure Regulating Valve 235-242
Refrigeration System Control 948-949
Solenoid Valve 224-229, 233-234, 245
Strainer 267
Suction Filter 263-264

Sprayer
Maxi-Vac 1165
NRP 1163-1164
Nu-Calgon 1163-1164, 1166
Speedclean 1164-1165
Supco 1165
Hand 1163-1164
Power 1164-1166

Sprecher + Schuh
Auxiliary Switch 911
Contactor 911-912
Relay 911

Stand, Torch 1119-1120

Stapler
Duct Board 1069
Staples 1069

Stop and Waste Valve 623

Storm Collar
B Vent 503

Strainer
Parker, Refrigerating Specialties 242
Sporlan 267
Supco 267
Commercial 242
Refrigerant 267
Spun Copper 267

Strap
Bramec 537
Diversitech 536
Plastic 536
Vinyl 537
Web 537

Strapping
International Refrigeration Products 1107
..... 1107-1108

Strip Curtain
Aleco 366

Submersible Pump 290, 295

Suction Accumulator 283-284

Suction Filter
Danfoss 450
Emerson Climate Technologies (Alco) 264, 267-268
Sporlan 263-264
Sealed 263-264
Sealed, ODS 264, 450
Spun Copper 267-268

Suntec
Oil Pump 620

Supco
Access Clamp Tool 1044
Belt Jack 566
Capillary Tubing 223
Condensate Pan Heater 930-931
Control, Pressure 774-775
Control, Temperature 925
Control, Warm Air 927-928
Defrost Timer 798
Door Heater 930
Drain Heater 929-930
Element, Electric Heat 929
Fin Comb 1095
Fitting, Access 718
Flame Sensor 821
Flame Sensor Cleaner 821
Fuse Testing Kit 936-937
Heat Sequencer 928
Ignitor 821-822
Moisture Indicator 273
Motor Tester 991
Nut Driver 1052
Oil Additive 1176
Overload 920
Relay, Start Assist 917-919
Saddle Valve 286

Manufacturers are listed in blue

Safety Locking Cap ... 714
Scale ... 996
Sprayer ... 1165
Strainer ... 267
Temperature Alarm ... 993
Terminal Repair Kit ... 942
Tester, Air Flow ... 1005
Tester, Combustion ... 1003
Tester, Electrical ... 974, 976
Tester, Temperature ... 987-988, 991-992
Tester, Vacuum ... 1017
Thermostat Guard ... 754
Tool, Air ... 1124
Tubing, Pneumatic ... 901-902
Umbrella ... 1141

Supermarket Electronic Controls
Carel ... 957-960, 1245
Danfoss ... 871, 955-956, 1239-1240
Emerson ... 952-954
KE2 Therm Solutions ... 961-962
Parker ... 950-951
Electronic Expansion Valve ... 958-960, 963
Leak Detector ... 954, 1240
Pressure Transmitter ... 955
Sensor ... 871, 951-953, 956
System Controller ... 950-952, 955-959, 961-962, 967, 1245

Support Channel
... 722
Hardware ... 723-724

Surge Protection ... 932

Swage Tool ... 1041-1042

Switch
Toggle ... 939
Wall ... 939

System 1738
Flue Gas Venting System ... 701-702

System Protection
Mainstream Engineering ... 1159

System Sensor
Control ... 876
Smoke Detector ... 875-877

T

T-Bar Grill
Hart and Cooley ... 496, 499
Accessory ... 499
Diffuser ... 496-499
Filter ... 497
Perforated Face ... 496
Return ... 497, 499

TAC - Barber Colman
Actuator ... 858
Valve, Commercial ... 848-849

Taco
Control, Hydronic ... 838-839
Pump ... 626-627, 630
Valve, Hydronic ... 838

Takeoff, Side
Adhesive ... 517-519
Sheet Metal ... 512

Takeoff, Top
... 530
Adhesive ... 517
Ductboard ... 515-516
Oval ... 530
Round ... 514-517

Tank Drain
Drainview ... 902

Tape
Hardcast ... 1136
NRP ... 1140
Aluminum ... 1138-1139
Aluminum, Skrim ... 1139
Cloth Duct ... 1137-1138
Cooler Repair ... 1136
Duct ... 1136
Duct Sealant ... 542
Electrical ... 1139
Insulation ... 1140
Line Set ... 1136
Mastic ... 1140
Skrim ... 542
Teflon ... 1140

TDS Meter ... 361

Tecumseh
Compressor, Air Conditioning ... 98-99
Compressor, Refrigeration ... 94-97
Condensing Unit, Refrigeration, Air Cooled ... 96, 176-178
Condensing Unit, Refrigeration, Water Cooled ... 178
Motor, OEM Factory ... 55

Tee
B Vent ... 502
Black Iron ... 697-698
Compression, Brass ... 691
Flare ... 681-682
Flexible Gas ... 733

Manufacturers are listed in blue

PVC....705
PVC, DWV....707
Sheet Metal....509
Swivel, Sheet Metal....510
Wrot Copper....667

Temperature Alarm
Supco....993

Temperature Control
Danfoss....759, 956
Emerson....953
Honeywell....758, 760-764, 766-767, 769-770
Honeywell Home....760, 828
Johnson Control....757-760, 763-768, 775, 827
Parker....951
Ranco....758, 762-763, 765, 768, 771
White Rodgers....762, 766, 768, 952
2 Stage....759, 765
Air Conditioning....772-773
Appliance....770-771
Cooling Tower....759
Electronic....766-769, 775, 952
Freezestat....765-766
Hydronic....832
Ice Bin Level....771
Ice Harvest....771
Proportional....770
Remote Bulb....757-758, 761-762
Sensor....873, 951, 953, 956
Space....763-764
SPDT....759, 763
Water Cooler....772

Temprite
Oil Separator....278, 282

Terminal Repair Kit
NRP....942
Supco....940, 942

Terminal, Solderless
Bullet....941
Butt....940
Dead End....940
Flag....940
Kit....942
Ring....941
Slip On....940-941
Spade....941

Test Lead
NRP....945

Test Plug
Imperial....1044
Weiss Instruments....639

Tester Vacuum
Testo....318, 1017, 1021-1023

Tester, Air Flow
AAB Smart Tools....1004
Dwyer....1003, 1006-1007
Fieldpiece....1005-1006
Fluke....1004
Supco....1005
Testo....1003-1006
Yellow Jacket....1007
Anemometer....1004
Manometer....1005-1006
Manometer, Gauge....1003
Manometer, Slack Tube....1007
Manometer, U-Tube....1006
Thermoanemometer....1003-1005

Tester, Combustion
Fieldpiece....1002
Inficon....1001
Supco....1003
Testo....1001-1002
CO....1002-1003

Tester, Electrical
Fieldpiece....976, 978-979
Fluke....974-979, 1270
Klein Tool....975, 980
Refco....976
Supco....974, 976
UEI....978-979
Accessory....974, 977-979
Accessory, Pressure....1270
Amps....978
Capacitor....976
Current Clamp....976
Digital, Clamp....972-973, 983
DMM....970-972
DMM, Clamp....973-974
Megohmeter....974
Multimeter....971
Multimeter, Pocket....975
Voltage Checker....975-976

Tester, Humidity
Fluke....987
Testo....988

Tester, Pressure
Fieldpiece....1270
Fuel Pressure....1003
Superheat....1270
Vacuum....1270

Tester, RPM
Testo....1007

Manufacturers are listed in blue

Tester, Temperature
Cooper....983, 986-987
Fieldpiece....980, 983, 985-986, 988
Fluke....981, 983, 985-987
International Refrigeration Products....981
Supco....987-988, 991-992
Testo....982, 984
UEI....987
Yellow Jacket....984-985
Accessory....984-988
Data Logger....992
Digital, Thermocouple....983
Infrared....981-982
Multistation....983
Multistation, Thermohygrometer....983
Pocket, Digital....984, 988
Psychrometer, Digital....979-980, 987-988
Recorder....991
Temperature/Humidity....987
Thermohygrometer....980
Thermometer....983
Wireless....982, 988

Tester, Vacuum
CPS....1017
Inficon....1017
J/B Industries....1016
Supco....1017
Yellow Jacket....1017
Analyzer....1016-1017, 1021, 1023

Testing
Refrigerants....316-317
Refrigeration Oil....317

Testo
Combustion Tester....1001-1002
Digital Service Manifold....982, 1021-1023
HVAC/R Kit....982
Manifold Strap....1023
Multimeter....982
Output Printer....1024
Pressure Probe....1022
RPM Meter....1007
Scale....996
Tester, Air Flow....1003-1006
Tester, Vacuum....318, 1017, 1021-1023
Thermohygrometer....988
Thermometer, Digital....982, 984
Thermometer, Infrared....982
Thermometer, Wireless....982

Text Books....1179

Thermal Zone
Air Conditioning, Service Guide....1179
Air Conditioning, Split, Condenser....395
Air Conditioning, Split, Residential....395
Air Purification System....575
Dehumidifier....582
Furnace, Gas, Residential....431-432
Heat Pump, Split, Commercial....406
Line Set....453

Thermo-Trap....1128

Thermocouple....812-813

Thermometer
Cooper....989-990, 1281
International Refrigeration Products....988-991
Weiss....989-991, 1008
Digital, Pen....988
Face Mount, Stem....989
Fixture, Walk In....989
Industrial Digital....990
Industrial Glass....990
Panel, Digital....989
Refrigerator....989
Remote Vapor Tension....990-991
Remote, Digital....989
Remote, Solar....989
TPA....1008
Wall....990
Wall, Hygrometer, Digital....1281

Thermometer, Digital....983

Thermopile....812-813

Thermostat
Honeywell Home....755
ICM....926
International Refrigeration Products....754-755
Supco....754-755
....742
Construction....926
Disc....925-926
Electric Range....846
Guard....754-755
Pneumatic....879-881, 888, 898, 900

Thermostat Wire....943-944

Thermostat, Digital
Arcoaire....749
Ecobee....749
Honeywell....752-754
Honeywell Home....739, 741-748, 751-753
White Rodgers....740-741, 743, 749-752
Fan Coil....753
Multistage....740, 749
Non-Programmable....739-740, 753
Programmable....741-747, 749-752
Programmable, Commercial....752-753

Manufacturers are listed in blue

Programmable, Wireless....749
Proportional....754
Single Stage....740-741, 750
Wifi....745, 748
Wireless....739, 743, 747-748, 751-752

Thermostat, Disc
International Refrigeration Products....925-926

Thermostat, Electromechanical
Honeywell....753-754
Honeywell Home....738, 753
Johnson Control....754
White Rodgers....738
Line Voltage....753-754
Line Voltage, Electric Heat....753
Round....
Single Stage....738

Thread Sealant
Highside....1170
Laco/Markal....1170
Loctite....1168-1169
Rectorseal....1169
X-Pando....1169

Threaded Rod
Anchor....727
Coupling....727

Tie Down, Rubber....1108

Timer
Cam-Stat....827
Honeywell Home....796-797
ICM....795-796
Idec....796
Intermatic....792-795, 1054
International Refrigeration Products....791
Johnson Control....798
Mars....795-798
Paragon....791-793, 798, 1053
Supco....798
Blower Delay....827
Defrost....791-792, 1053
Defrost, Domestic....798
Defrost, Electronic....798
Defrost, Heat Pump....797
Defrost, Heavy Duty....798
Defrost, Modular....793
Defrost, Percentage....794
Electromechanical....793-794
Electronic....1054
Furnace Delay....796-797
Purge....843
Spring Wound Interval....795

Tjernlund
Booster Fan....547
Draft Inducer....547

Toe Space Grill
Hart and Cooley....480

Tool Box
NRP....1082
Pail....1082
Parts Drawer....1082

Tool Tote
CLC....1081
Klein Tool....1075, 1080-1081
Veto Pro Pac....1076-1080

Tool, Air
National Chemicals....1170
Nu-Calgon....1124
Rehvac....1122-1123, 1388
Supco....1124
Uniweld....1113, 1123
Accessory....1123
Blow Out Valve....1124, 1170
Blowgun....1123
Kit....1122, 1124, 1388
Regulator....1123
Regulator, CO2....1123
Regulator, Nitrogen....1113, 1121

Tool, Charging
Kwik-Charge®....1036
Service Tool Kit....1036

Tool, Duct Board
Amcraft....1100
Klein Tools....1100
Malco....1100
Hole Cutter....1100
Knife....1100
Shiplap Knife, Sled....1100

Tool, Hand
Bostich....1069
CPS....1036, 1061
Diversitech....1086, 1107-1108
Eklind....1055
International Refrigeration Products....1094-1095
Klein Tool.1045-1068, 1070, 1083-1085, 1102, 1105-1106, 1343, 1345
Lutz....1046
Malco....536, 1052, 1069, 1095, 1343
Posi Lock....554
Rigid....1040, 1062
Schaeffer....1094-1095
Sensible Products....554, 1087
Supco....1095

Manufacturers are listed in blue

Uniweld ... 1044
Vermette ... 1142-1143
Yellow Jacket ... 1053, 1061, 1064-1065, 1086, 1097
Awl ... 1068-1069
Bag, Clean-up ... 1086
Brush ... 1093-1094
Brush, Acid ... 1095
Brush, Fitting ... 1093
Brush, Radiator ... 1094
Brush, Tube ... 1095
Brush, Wire ... 1094
Cable Cutter ... 1345
Caliper ... 1070
Caulk Gun ... 1096
Drop Light ... 1093
Duct Tensioning ... 536
Fan Blade Puller ... 554
File ... 1069
Fin Straightener ... 1094-1095
Flex Duct Cutter ... 536
Grease Fitting ... 1096
Grease Gun ... 1096
Hex Key ... 1052-1055
Inspection Mirror ... 1086-1087
Level ... 1354
Lift ... 1142-1143
Magnetizer/Demagnetizer ... 1050
Nut Driver ... 1050-1052, 1342-1343
Oil Pump ... 322, 1097
Pipe Wrench ... 1061-1063
Plier ... 1056-1057
Plier, Diagonal Cutter ... 1058
Plier, Long Nose ... 1056
Plier, Vise-Grip ... 1057
PVC Cutter ... 1044
Rag ... 1085-1086
Safety Glasses ... 1073-1075
Saw ... 1067-1068
Scraper, Gasket ... 1353
Screwdriver ... 1046
Screwdriver, Multi-Bit ... 1046-1050, 1083-1085, 1106
Screwdriver, Phillips ... 1046
Screwdriver, Precision ... 1067
Screwdriver, Slotted ... 1045
Sprayer ... 1163-1164
Stapler ... 1069
Strap, Ratchet ... 1108
Strap, Web ... 1107
Tape, Measuring ... 1070
Utility Knife ... 1065-1068
Wire Crimper/Stripper ... 453, 1056, 1058-1060
Wrench ... 1061-1062
Wrench, Adjustable ... 1062-1063
Wrench, Ratchet, Valve ... 1063-1065

Tool, Machine

Malco ... 1054, 1101, 1105-1106
Shook ... 1105
Drill Bit ... 1105
Drill Set ... 1105-1106
Driver Bit ... 1048, 1084-1085, 1101-1102, 1105
Hex Driver ... 1054, 1101, 1105
Hole Saw ... 1101, 1104
Reciprocating Blade ... 1102-1104

Tool, Power

Condenser Needle ... 1164
Sprayer ... 1165-1166
Tube Cleaner ... 1166-1167

Tool, Sheet Metal

Malco ... 1069-1070, 1097-1099, 1107
NRP ... 1098
Circumference Rule ... 1070
Crimper ... 1099
Divider ... 1069
Duct Holder ... 1099
Duct Stretcher ... 1097
Folding ... 1097
Hammer ... 1098
Hole Cutter ... 1107
Notcher ... 1098
Power Shear ... 1107
Riveter ... 1069
Seamer ... 1099
Snap Lock Punch ... 1099
Snip ... 1098
Snip, Aviation ... 1098
Trammel Point ... 1069

Tool, Tubing

CPS ... 1038, 1042
Diversitech ... 1034, 1044
Imperial ... 1038-1044
International Refrigeration Products ... 1038, 1040-1041, 1043-1044
Malco ... 1043
NRP ... 1129
Spin ... 1040
Supco ... 1044
Yellow Jacket ... 1037-1039, 1041-1044
Access ... 1034, 1044
Bender, Lever ... 1042-1043
Cleaning Pads ... 1129
Cutter ... 1037, 1040-1041
Deburr ... 1043-1044
Flare ... 1038-1040
Flare/Swage ... 1038-1039, 1044
Pinch-off ... 1044
Sand Cloth ... 1129
Swage ... 1041-1042
Test Plug ... 1044

Tool, Valve Core

International Refrigeration Products ... 1033

Manufacturers are listed in blue

J/B Industries....1032-1033
NRP....1034-1035
Yellow Jacket....1035

Torch, Accessory
NRP....1113, 1116-1121, 1124, 1385
Uniweld....1118-1124
Adapter....1122
Adapter, Tank....1121
Cart....1119
Cylinder Wrench....1121
Flint Lighter....1121
Friction Lighter....1121
Gas Cylinder....1114, 1125
Gauge....1118
Halide Leak Detector....1120
Hose....1119
Hose Coupling....1122
LP/Mapp Tip....1116
Magnob....1385
Regulator....1113, 1119, 1121
Stand....1119-1120
Tank Adapter....1120
Tank Gauge....1123-1124
Tip....1117, 1120
Tip Cleaner....1122

Torch, Air-acetylene
NRP....1115-1118
Uniweld....1115-1118
Adapter....1118
Handle....1116, 1118
Kit....1115-1116
Tip....1117-1118

Torch, Oxy-acetylene
NRP....1109-1111
Uniweld....1109-1110, 1112-1113, 1115
Adapter....1113
Handle....1109
Handle, Cutting....1109
Handle, Welding....1109-1110
Kit....1109, 1115
Kit, Cutting....1110
Tip....1110-1111
Tip, Brazing....1112-1113, 1115
Tip, Cutting....1113

Touch Up Paint....495

Towel....1086

TPI Corporation
Duct Fan Heater, Hotpod....547-548

Tracpipe
Fitting, Flexible Gas....732-734
Tubing....732, 734

Transfer Grill
Hart and Cooley....493

Transformer
Honeywell Home....905-906
International Refrigeration Products....906
Johnson Control....905, 907
Oil Ingition....619

Transformer/Relay....907

Transition, Trunk....526

Trap
PVC....706
Wrot Copper....669

Traulsen....372

Trenton Refrigeration
Air Cooled Condenser....156
Condensing Unit, Refrigeration, Air Cooled....147-149, 152-155, 209-220
Condensing Unit, Refrigeration, Remote Air Cooled....234
Condensing Unit, Refrigeration, Water Cooled....155, 237-239
Motor, OEM Factory....55
Unit Cooler....136-146, 168, 176

Trion
Humidifier....580

True Manufacturing....370

Tube Cleaner, Power
Maxi-Vac....1166-1167

Tube Flush
National Chemicals....1151-1152
Nu-Calgon....1152

Tube Hanging Insulator
Klo-shure....719-720

Tube Strap....669

Tubing
Baso....812
J/B Industries....223
John Guest....713
Omegaflex....732
Supco....901-902
Tracpipe....732
Capillary....223
Clear Vinyl....708
Copper....286, 644-645, 647-649, 909-910
Copper, Insulated....646
Flexible Gas....732
Pilot....812

Manufacturers are listed in blue

Pneumatic....901-902
PVC Sch 40....703

Tubing Clamp, Channel
Cooper B-Line....723
Hydra-Zorb....722
International Refrigeration Products....723

Tubing Hanger
Armacell....719
Cooper B-Line....982
International Refrigeration Products....725
A Band....725
Clevis....725
Insulator....719-720
J Hook....708
Pier....725, 982
Split Ring....726
Strap....708
Van Hanger....726

Tubing Insulation
Elastomer....650-659
Polyethylene....659-660

Tubing Shroud, Decorative
Plastiduct....728-729

U

U.S. Motors/Nidec (Emerson)
Motor Accessory....49-51
Motor, General Purpose....43, 45, 47-48
Motor, HVAC....18-19, 21, 23-26, 28-29, 33-34, 37-38, 40
Motor, OEM Replacement....7, 39, 49
Motor, Refrigeration....6, 8, 41

UEI
Tester, Electrical....978-979
Tester, Temperature....987

Ultravation
Ultraviolet Lamps....573

Ultraviolet, Lamps
Field Controls....574
Honeywell Home....574, 836
Ultravation....573

Umbrella
Supco....1141

Unico
Air Conditioning, High Static....463-468

Unit Cooler
Bohn....157-159, 259-263
Cooltube....303
Heatcraft....163-167
Larkin....162, 290
LRC Coil....180-181
Peerless....179
Trenton Refrigeration....136-146, 168, 176
Mullion, Air Defrost....165-166
Mullion, Electric Defrost....167
Reach In, Air Defrost....163-165, 167-168, 179, 303
Reach In, Electric Defrost....164, 168
Walk In, Air Defrost....139, 141-144, 157-159, 162, 259-260, 290
Walk In, Air Defrost, Low Velocity....145-146
Walk In, Electric Defrost....157-159, 162, 261-262
Walk In, Electric Defrost, Low Velocity....136-140, 145, 176
Walk In, Hot Gas Defrost....263
Walk In, Low Velocity, Air Defrost....180-181
Walk In, Low Velocity, Electric Defrost....136, 138-140, 145, 176

Unit Heater
Reznor....598-601, 862
Gas....862
Gas, Separated Combustion....862
Hydronic....601

United Electric Controls
Differential Pressure Switch....868

Uniweld
Blowgun....1123
Brazing Alloy....1126
Regulator....1123
Tool, Air....1113, 1121
Torch, Accessory....1118-1124
Torch, Air-acetylene....1115-1118
Torch, Oxy-acetylene....1109-1110, 1112-1113, 1115
Tube Slicer....1044

V

Vacuum
Hose....1029-1030

Vacuum Analyzer....1016-1017, 1021, 1023

Vacuum Manifold
Yellow Jacket....1016

Vacuum Pump
CPS....1015
Fieldpiece....1015
J/B Industries....1012-1014
NRP....1013, 1015
Welch....1015

Manufacturers are listed in blue

Yellow Jacket 1014

Vacuum Pump Oil 318-319, 1016

Valve
- Ball 247, 249, 674
- Compressor Service 132-134, 164
- Food Service 713
- Fusible 617
- Gas Pilot 845
- Oil Exchange 276
- Repair Gaskets 134
- Rotolock 133-134
- Rotolock Adapter 134
- Rotolock Service 133
- Service, Rotolock 133, 195
- Water Regulating 787-790

Valve Core Tool 1032-1033

Valve, Check, Refrigerant
- *Danfoss* 255
- *Mueller* 254
- *Sherwood Valve* 253-254
- Commercial 243
- Globe 254
- Inline 254-255

Valve, Check, Water
- Condensate Pump 295

Valve, Commercial
- *Belimo* 851-852
- *Honeywell* 847-848, 892
- *Johnson Control* 847, 883-885
- *TAC - Barber Colman* 848-849
- 847-849
- Characterized Control Valve 851-852
- Pneumatic 883-884, 892
- Pneumatic, Solenoid 884-885

Valve, Expansion
- Electronic Stepper 222-223, 949, 963
- Modulating 222

Valve, Gas
- Commercial 845-846
- Pilot 844-845

Valve, Gas Combination
- 808-809
- Accessory, Bushings 809
- Accessory, Operator 810
- Accessory, Regulator 810
- Continuous 799-803
- Continuous, Low Profile 802
- Cycle Pilot 806
- Hydraulic 799, 809
- Intermittent 803-805
- Proven 807-808
- Proven, Intermittent 804-806

Valve, Gas Regulator 824-825

Valve, Gas Shutoff 622

Valve, Heat Pump Reversing
- 828-829
- Coil 829

Valve, Hydronic
- Air Purge 633
- Air Vent 633-635
- Feed Water Regulator 636
- Flow Control 638
- Pressure Reducing 636
- Pressure Reducing, Relief 635
- Pressure Relief 634-636
- Steam Pressure Regulator 637
- Temperature/Pressure Relief 635
- Tempering 638-639
- Vacuum Breaker 638
- Zone 838

Valve, Pressure Regulating
- Condenser Flood 236-237
- Crankcase 238
- Differential 240, 243
- Discharge Bypass 235-236, 239
- Discharge Bypass, Element 236
- Evaporator 238-240, 244
- Evaporator Step 241
- Flange Kit, Commercial 245
- Inlet 243
- Inlet, Commercial 242
- Outlet 243-244
- Repair Kit 241-242, 246

Valve, Refrigerant Control
- *J/B Industries* 1033, 1035
- *NRP* 1032
- *Yellow Jacket* 1033

Valve, Relief, Refrigerant
- *Henry Technologies* 253
- *Sherwood Valve* 252-253

Valve, Relief, Refrigerant/Ammonia
- *Henry Technologies* 255
- Commercial 255

Valve, Shutoff
- Petcock 248

Valve, Shutoff, Refrigerant
- *Henry Technologies* 249-251

Manufacturers are listed in blue

Mueller 249-251
Sherwood Valve 248
Ball 247-248
Packed Angle 250-251
Packless Diaphragm 249-250
Swivel Angle 251

Valve, Shutoff, Refrigerant/Ammonia
Henry Technologies 255
Flange Kit 255
NPT 255

Valve, Shutoff, Water
Ball 623
Boiler Drain 623
Extension Handle 623
Stop and Waste 623

Valve, Solenoid
Coil 229, 231-232
Commercial, Coil 246
Heat Reclaim 228
Hot Gas 229
Industrial 227
R410A 226-227
Rapid Cycle 228
Refrigerant 224-227, 229-231
Repair Kit 233-234
Secondary Coolant 228, 245
Secondary Coolant, Coil 245

Valve, Thermostatic Expansion
Balanced Port, Flare 205-208
Balanced Port, ODF 205-206, 208-209, 211-212
Cartridge Style 215
Cartridge Style, Accessories 219
Cartridge Style, Cage 218, 220
Cartridge Style, Element 213, 218
Cartridge Style, Flange 219
Cartridge Style, Flare 213-214, 216, 218
Cartridge Style, Kits 220, 423
Cartridge Style, ODF 213-214, 216-218, 221-222
Cartridge Style, Orifice 216-217, 219-220, 222
Charge Element 220-221
Flare 198, 200-203, 375
ODF 198-200, 203-204, 207, 209-210, 212-213
ODF, Flanged 202-204
OEM, Heat Pump 207, 209, 211
Temperature Responsive 205

Valve, Water
Backflow Preventer 637
Flow Check 639
Pressure Regulating 636-637
Tank Float 286
Tap 286

Valve, Zone
Belimo 837
Erie 836-837
Honeywell 833-834
Honeywell Home 832-833, 835
Johnson Controls 850
Taco 838
White Rodgers 835-836

Vane Rail
Duro Dyne 543

Variable Speed Drive
Johnson Controls 1189, 1194

Vent Hood
Acme 536
Field Controls 614

Vent Port 383

Vent, Gas, Flexible 500

Venter
Power 614

Venting Accessory 614

Veris Industries
Current Sensing Relay 904
Differential Pressure Switch 868

Vermette
Material Lift 1142-1143

Vest
NRP 1071

Veto Pro Pac 1076-1080

Vibration Damper
Mason 1135
Hanger 1135
Surface 1135

Vibration Eliminator
International Refrigeration Products 670

Vibration Pad 1134-1135

Video
EPA Testing 1181

Vinyl Tubing 708

Voltage Monitor
ICM 903

Manufacturers are listed in blue

VRV
Daikin....455-456
Ductless Split....455-456

W

Wall Bracket
B Vent....503

Wall Furnace....601

Wall Rack
Klein Tools....1076

Wall Thimble
B Vent....503

Warmer
Continental....

Washer
Fender....1130
Flat....1130
Lock, Split....1130

Water Alarm
Diversitech....993

Water Cooled Condenser
Alfa Laval....185
Packless....183-184
Westermeyer....187-191
Coaxial....183-184, 187
Shell and Tube....185, 188
Shell and Tube, Marine....185, 189

Water Dispersant
FPPF....1167

Water Feeder
McDonnell Miller....640-641
Watts....636

Water Filter
Costguard....357, 364
Everpure....356-364
Manitowoc....336
Nu-Calgon....364
Scotsman....355
Beverage Applications....357-358
Coffee Applications....357-358
Ice Applications....356-357, 359
In-Line....359, 364
Parts....362
Reverse Osmosis....360-361
Shell/Cartridge....357, 364
Specialty Cartridge....361-362
Steam Applications....358, 360

Water Heater
Ruud....408, 606-610
Webstone....632
Electric....606
Gas....606-607
Tankless....408, 608-610, 632

Water Pump
Centrifugal....628

Water Regulating Valve
Johnson Control....787-790

Water Source Heat Pump
Bosch....469, 471-472
FHP Bosch....609
Horizontal....471-472
Vertical....469, 471

Watts
Backflow Preventer....637
Check Valve....639
Dielectric Union....639
Float Valve....286-287
Gas Connector....622, 885
Hydronic Specialties....631, 633-638

WD40
Spray Lubricant....321

Webstone
Hydronic....632
Pump....631
Water Heater Service Valve....632

Weiss
Pressure Gauge....1007-1008
Test Plug....639
Thermometer....989-991, 1008

Welch
Vacuum Pump....1015
Vacuum Pump Oil....1016

Westermeyer
Bracket....194
Chiller....307
Oil, Refrigeration, Components....275, 277, 279-282, 284
Receiver, Refrigerant....191-193
Rotolock....134
Water Cooled Condenser....187-191

Wet Switch
International Refrigeration Products....993

Manufacturers are listed in blue

Wheel, Blower 553-554

White Rodgers
Control, Gas Heating 800-801, 806-808, 814-816, 819-820, 1074
Control, Hydronic 832, 835-836
Control, Temperature 762, 766, 768, 952
Control, Warm Air 826, 926-927
Defrost Timer 797
Ignition Retrofit 823
Ignitor 822-823
Thermostat, Digital 740-741, 743, 749-752
Thermostat, Electromechanical 738

Wipe
Refrigeration Technologies 1085

Wire
Klein Tools 944
NRP 943-945
Hook-Up, Stranded 452, 715, 943
Patch Cord 939
Pigtail 938
SJ 944
Thermostat 943-944
Thermostat, Plenum 943

Wire Management
Cable Clamp 945
Cable Marker 944
Cable Tie 945
Heat Shrink Tube 945
Nut 944
Whip 944

Wrench
Adjustable 1062-1063
Combination 1060
Digital 1061
Ratchet 1063-1065

Wye
B Vent 502
Sheet Metal 509

Wye, Sheet Metal 510-511, 775

X

X-Pando 1169

Y

Yellow Jacket
Control Valve 1033
Coupler 1035-1036
Coupler, Automotive 1026-1027
Fitting Forged Brass, Flare 1034
Fuel Pressure Test Kits 1003
Gas Leak Gauge 1006
Heat Gun 1142
Hex Key Set 1053
Hose 1027
Hose, Refrigerant Service 1026, 1031, 1033
Inspection Mirror 1086
Leak Detector 1001
Manifold, Service 1019-1020, 1024-1026
Manometer 1007
Psychrometer 979
Scale 995
Temperature, Wireless Sensor 984-985
Tester, Vacuum 1017
Tool, Hand 1053, 1061, 1064-1065, 1097
Tool, Tubing 1037-1039, 1041-1044
Tool, Valve Core 1035
Vacuum Manifold 1016
Vacuum Pump 1014
Valve, Refrigerant Control 1033
Wire 939

Z

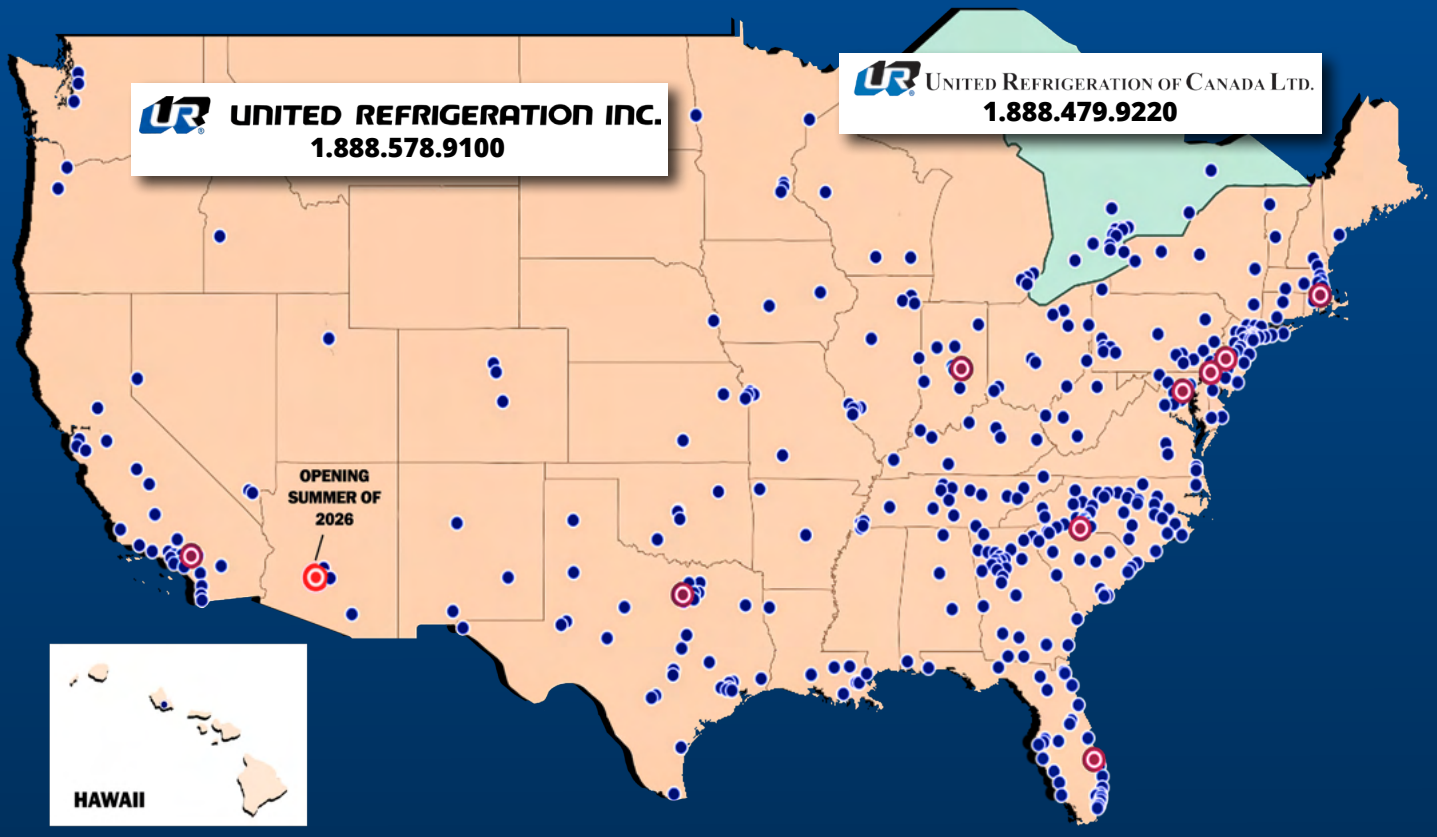
Z-Flex
Chimney Liner 615-616

Zone Damper
Honeywell Home 546-547, 751-752
Control Module 752
Control System 751-752

Zone Valve
Belimo 837-838
Erie, TAC 836-837
Honeywell 833-834
Honeywell Home 832-833, 835
Johnson Controls 850
Taco 838
White Rodgers 835-836
Commercial 833-838, 850
Line Voltage 832
Low Voltage 832-833, 835-836, 838

Manufacturers are listed in blue

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