



Instruments

• 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 Ω to 2 G Ω
- 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 Multimeter, (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

FLUKE®

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

FLUKE®

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

FLUKE®

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.

FLUKE®

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



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



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



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

FLUKE®

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



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 Ω
- 600 V ac and dc voltage measurement
- Temperature measurement from 14 to 752°F
- 1000 μ F capacitance measurement
- DC Current measurement to 200 μ A
- 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

FLUKE®

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



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



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



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



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



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 Ω 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



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)



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



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



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: $\pm 1.5\% \text{rdg} + 1 \text{dgt.}$
 - Maximum conductor size: 0.91" (23mm)
 - Use with EHD11 handle or HS35

Fieldpiece

multimeter

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 Ω
- AC voltage accuracy: $\pm (3\% \text{rdg} + 2 \text{digits})$
- DC voltage accuracy: $\pm (2\% \text{rdg} + 2 \text{digits})$
- Resistance accuracy: $\pm (5\% \text{rdg} + 3 \text{digits})$
- 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

FLUKE®

CAT IV, 10A

Part No.	Includes
TL220	TL224 SureGrip Silicon Test 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



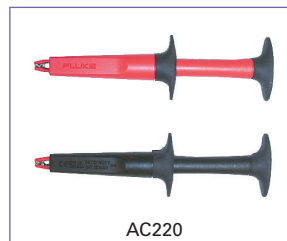
TL40

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

FLUKE®

CAT IV, 10A

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

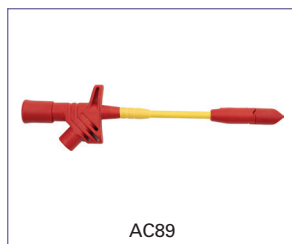
ALLIGATOR CLIP

- 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

FLUKE®

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

FLUKE®

Part No.	Includes
AC89	AC89 Heavy Duty Insulation Piercing Test Clip



ATL55

TEST LEAD

UEI
TEST INSTRUMENTS™

Part No.	Use with	Includes
ATL55	All DMMs, Clamps, Insulated, Industry Standard	Test Lead, Insulated Alligator Clips



ADLS2

TEST LEADS

Leads for all meters.

Fieldpiece

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

Fieldpiece

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

FLUKE®

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.

FLUKE®

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

FLUKE®

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

Fieldpiece

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®

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.

YJ YELLOW JACKET®

Part No.	Includes
67063	67063 YJack Dew Wireless Psychrometer Probe, (2) AAA Batteries

TEMPERATURE TESTER



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



UTILITY BORESCOPE

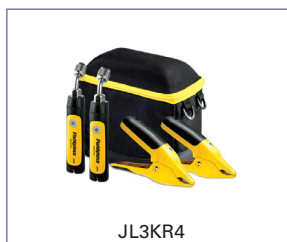
- Borescope features compact 5.5mm water-resistant camera (IP67 for camera head and cable) with 720p resolution
- 4.3-Inch color LCD screen for clear viewing
- 10-Foot nylon snake navigates

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



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® PipeTemp 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



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

FLUKE®

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: $\pm 1.5^{\circ}\text{C}$ or $\pm 1.5\%$ of reading, whichever is greater
- Response time: <500 ms (95% of reading)

FLUKE®

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

KLEIN TOOLS

Part No.	Accuracy	Includes
TI250	At More Than 212°F: $\pm 2^{\circ}$ or 2% (Whichever is Greater); At Less Than 212°F: $\pm 3^{\circ}$ or 3% (Whichever is Greater)	Rechargeable Thermal Imager, Micro-USB Charging Cable, Carrying Case, and Instructions

TEMPERATURE TESTER



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



INFRARED AND AIR

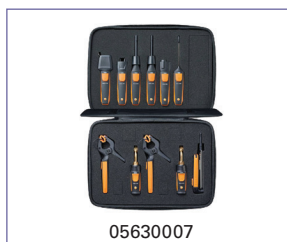
Infrared thermometer, 2 channel with laser sighting and integrated NTC air thermometer

- 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: $\pm 3.6^\circ\text{F}$ (-22 to +212°F); $\pm 2\%$ 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



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



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): $\pm(0.05\% + .5^\circ\text{F})$
- 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°



Part No.	Accuracy	Temperature (°F)	Includes
ST4	$\pm(0.5\% \text{ rdg} + 2^\circ\text{F})$, 1100°F to 2000°F	-58 to 400	Dual-Temperature Meter ST4, (2) K-type WrapTab 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: $\pm 0.3^\circ\text{F}$ or 0.5% of reading (greater value)
- Resolution: 0.1°F



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: $\pm 0.3^\circ\text{F}/\pm 0.5\%$ of reading, whichever is greater
- Resolution: 0.1°F



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



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



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



YJACK PATH™ RANGE EXTENDER

Extend your working area and connect up to 8 devices for complete system analysis

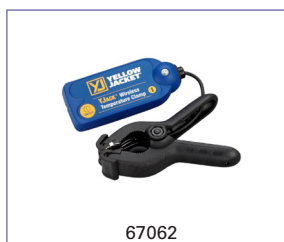
- Connects and re-broadcasts up to (6) YJACK™ devices and (2) P51-870 TITAN® devices at one

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



Part No.	Temperature (°F)	Includes
67060	-0.4 to 131	67060 YJack Path Wireless Range Extender, (2) AAA Batteries



YJACK™ TEMPERATURE STRAP



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

uri.com
Your URI Branch
Is Closer Than
You Think!



Local Inventory. Local Experts. Find Your Branch.



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.



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



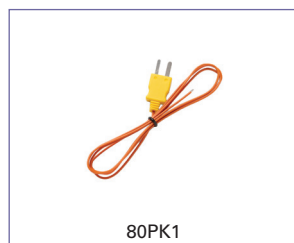
DMM ADAPTER

- 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

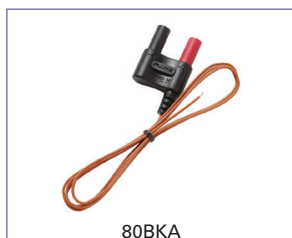


PROBE

- 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



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



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

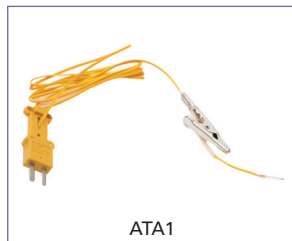
temps instantly. Clamp it on and go with hands free measurements. Make system adjustments and see pipe temperature readings react in an instant. Throw away the straps and tape for those large pipes. Clamp on to large pipes with the compact, rugged, and versatile TC48 Pipe Clamp. Match with any measuring device with a Type K thermocouple port.



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



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



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



PROBE, PIPE CLAMP

- Type K thermocouple probe

FLUKE®

Part No.	Description	Temperature (°F)
80PK8	Pipe Clamp Probe to 1 3/8"	-20 to 300



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



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



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





1075

THERMISTOR PROBE

- 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	—



ATT62

STANDARD TEMPERATURE PROBE

Thermistor type temperature probe for DT40 tester.



Part No.	Use with	Description
ATT62	DT40	Standard temperature probe tester, 15' sealed, type T



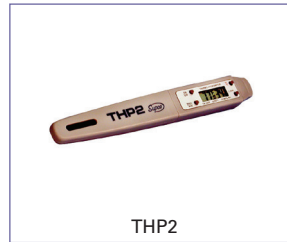
80CJM

THERMOCOUPLE CONNECTOR

- 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

THP2

PEN

- 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



DSP1000

HAND HELD

- 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



FLUKE971

THERMOHYGROMETER

- 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 (-4°F to 140°F)
- Temperature accuracy: $\pm 1^\circ\text{F}$ from 32 to 113°F
- Relative humidity from 5 to 95%
- Humidity accuracy: $\pm 2\%$ 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



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.

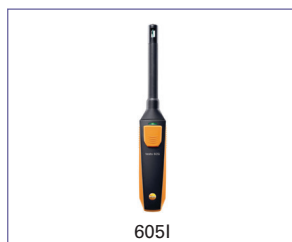
- Use for walk around testing or in-duct analysis
- Clips to your pocket
- Narrow tip for insertion into ductwork
- Twist cap protects sensors when not in use
- Hold/MAX/MIN

Specifications:

- Probe size: 2" long, 0.38" diameter
- Temperature range: -4 to 140°F, 0.1°F resolution, $\pm 2\%$ accuracy
- Relative Humidity: 15-90%, 1.0% RH resolution, $\pm 3\%$ accuracy in 30-80% RH range, $\pm 5\%$ accuracy <30% RH, >80% RH
- Auto off: 10 minutes



Part No.	Includes
PRH2	Digital Psychrometer, 1 AA battery, included



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

- Humidity measuring range 0 to 100% RH
- Accuracy $\pm(1.8\% \text{ RH} + 3\% \text{ of m.v.})$ at 77°F, (5 to 80% RH)
- Resolution 0.1%RH
- Temperature measuring range -4 to 140°F
- Accuracy $\pm 1.4^\circ\text{F}$ (-4 to 32°F), $\pm 0.9^\circ\text{F}$ (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
6051	testo 6051i, Bluetooth thermo-hygrometer with App, 3 AAA batteries and certificate of calibration

THERMOMETER



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



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



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



DIGITAL REMOTE PANEL

PM12001:

- 2.625" x 1.375" x 1" deep white polystyrene
- AA battery included
- SP120:
- Operates without any batteries
- Battery

PM12001

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



LED

LED retrofit thermometer 120V includes transformer.

- Resolution: 1°F
- Accuracy: $\pm 2.0^\circ\text{F}$ per NSF C-2
- Update time: 3 readings/second
- Humidity: Up to 100%
- Ambient temperature range:

20DTF

-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



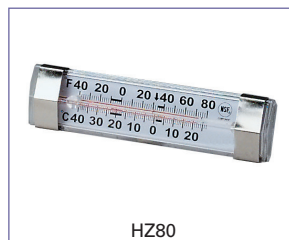
25HBM

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

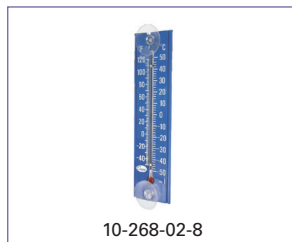
- Light switch (15A) and SST J-box mount cover
- Switchplate with lighted switch
- 120V direct power
- Display in °F only



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'



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'



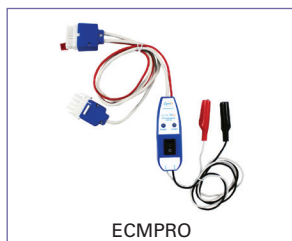
6020HL

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 $\pm 1\%$
- 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

REPLACEMENT PEN

CRPEN



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



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: $\pm 100\text{ppm}$ 75°F
- Relative humidity range: 0 to 99% RH, non condensing
- Relative humidity accuracy: $\pm 2\%$ RH, from 10 to 90% RH
- Relative humidity resolution: 0.01% RH
- Temperature accuracy: $\pm 1^\circ\text{F}$



Part No.	Humidity (% RH)	Storage Temperature (°F)	Includes
DVTH	0-99	-5 to 160	Datalogger, (3)AA batteries, USB cable, User Manual



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 continuous 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 accommodate 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.

FLUKE®

Part No.	Range	Accuracy	Measuring Tolerance	Includes
FLUKE417D	0.2-40 m/ 0.6-131 ft	$\pm 2\text{ mm}$ up to 10 m	2.0 mm $\pm$ 1.5 mm/ $\pm$ 0.06 in	Laser Distance Meter, Lanyard, 2 x AAA Batteries, User's Manual, Quick Reference Guide, Three-Year Warranty

TEMPERATURE ALARM



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



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



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

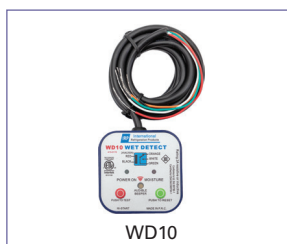
response or 1 hour delay

- 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



WET DETECT SWITCH



Part No.	Description	Contact Rating (Amps)
WD10*	Wet Detect Switch	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



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

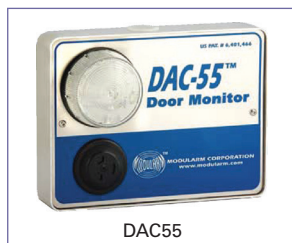
wet switch to turn off a unit. Easily reset.

- LED activation indicator
- Contact rating: 2A



Part No.	Description	Contact Rating (Amps)
WS1*	Flood Detector	2

DOOR ALARM



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



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.



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

ChemPenn
The Chemical Company of Pennsylvania

Part No.	Description
21117	R290 refrigerant high precision charging scale, 176 ounces (11 lbs) capacity



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.

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Includes
WEYTEK220	Wey-TEK Pro, magnetic handpiece strap, (3) AA Batteries, Carrying case

**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.

**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 weight 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

**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)

cps®

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

**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

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

CHARGING SCALE



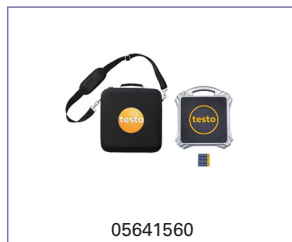
SUPCO

- 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



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 9V (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



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



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



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



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



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



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



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



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

cps®

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



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



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

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.



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



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



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, EZ50 EZ-Ject™ dye injector assembly, EZ25 8" EZ-Ject™ hose assembly, 128186 R-410a adapter/purge fitting
- SPEEZ100ECS includes: (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

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



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



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



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

**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.



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

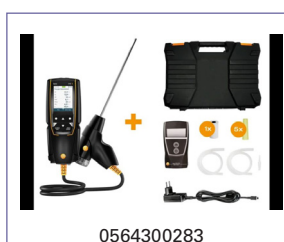
COMBUSTION ANALYZER**FLUE-MATE™ COMBUSTION ANALYZER**

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



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

**TESTO 300 SMOKE EDITION KIT**

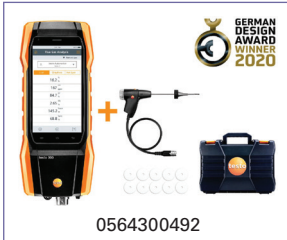
- Designed for residential and commercial applications
 - Equipped with durable O2 and CO sensors
 - Large scratch-resistant 5 in. HD display with smart-touch operation and replaceable protective film
 - Smart-touch technology responds immediately, ensuring intuitive and easy operation
 - Stored, clearly 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



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



TESTO 300 PRO KIT

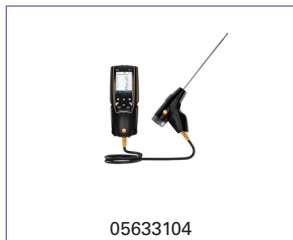
- Longer sensor service life thanks to automatic sensor protection
- Integrated draft and gas zeroing without removing the probe – the probe can remain in the flue during zeroing
- For intensive daily use: high-

quality Longlife sensors for O₂ 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 O₂ 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



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 filter

- 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

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



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 software 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 software



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: $\pm 2\%$ 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



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



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 $\pm 16"$ 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 ($\pm 1\%$)
 - Air Velocity ($\pm 2.5\%$ at 2000fpm)
- Includes soft case, 2 rubber hoses

FLUKE®

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



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 $\pm 0.5\%$ 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



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 EHD11 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 multiple 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



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: $\pm 1.5\%$ 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



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



MANOMETER SMART AND WIRELESS PROBE

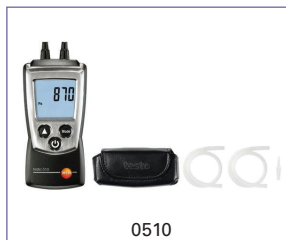
- Differential pressure (manometer) measures static pressure, air flow, and volume flow (with Pitot tube not incl.)
- Measures manifold pressure and pressure drop across filters and coils and has measurement menu

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.



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



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



Part No.	Includes
0510	testo 510, belt pouch, 2 hoses, wrist strap, certificate of conformity



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.

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



U-TUBE MANOMETER

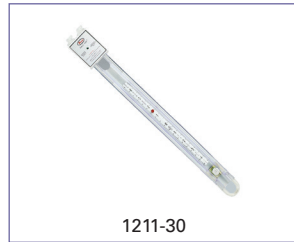
Measures positive, negative and differential pressures. Columns are constructed of flexible butyrate tubing.



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



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



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



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: $\pm(0.02\% + 1 \text{ digit})$
- 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



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"



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



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: $\pm 2\%$ 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



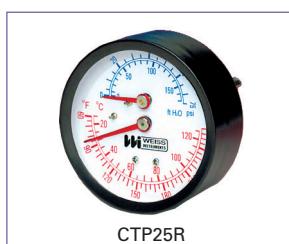
4MG300

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 $\pm 2\%$ of span in middle half of range, $\pm 3\%$ of span elsewhere. Temperature $\pm 3\%$ of span over entire range



Part No.	Dial Size (In.)	Length (In.)	Connection		Pressure Range (psi)	Temperature (°F)
			Size (In.)	Type		
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



PORTABLE REFRIGERANT RECOVERY UNIT



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



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	Vapor
G5TWIN*	1/2	R22	0.62



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



			Capacity (Lbs/Min)	
Part No.	HP	Recovery Rates	Direct Liquid	Vapor
G1SINGLE*	1/2	R22	8.54	0.26



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



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



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



		Dimen- sions (In.)		
Part No.	Description	W	H	Diameter (In.)
MT69	Refrigerant Molecular Transformator, decreases recovery time	5.91	5.98	4.25

UNITED REFRIGERATION INC.
INTRODUCING [URI.COM](http://uri.com):
YOUR ULTIMATE HVAC/R RESOURCE HUB!

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Plan your projects efficiently with up-to-date stock levels.

Technical Documents
Access installation guides, troubleshooting manuals, and more for enhanced productivity.

Account Pricing
Streamline your procurement process with transparent and consistent pricing.

Replacement Parts & Supersedes
Ensure compatibility and efficiency with the most up-to-date components.

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

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



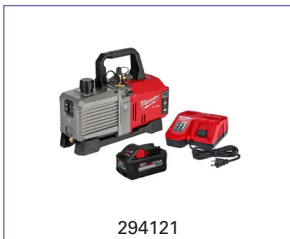
DV240DC

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
- 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

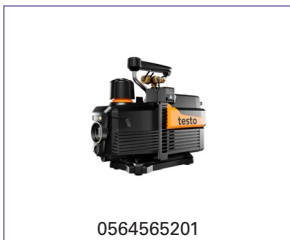
Our M18 FUEL™ 5 CFM Vacuum Pump eliminates the hassle of cords and provides instant power for fast evacuations. Powered by M18™ REDLITHIUM™, this pump delivers the runtime to complete multiple jobs on one charge. With

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 1/4" 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.



the innovation of manifold mode, the M18 FUEL™ 5 CFM Vacuum Pump allows you to maximize your speed and runtime

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
- 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
- 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



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



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 (nontoxic, 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

cps®

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.

Welch

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

CHARGING

VACUUM ACCESSORY



1407K11

VACUUM PUMP OIL

Part No.	Description	Container Size
1407K11	Vacuum Pump Oil	1 Quart
1407K15	Vacuum Pump Oil	1 Gallon

Welch



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



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 Gauge, 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





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



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)



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



Part No.	Description	Power
69075*	Vacuum gauge, digital, 1 μ 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



Part No.	Power	Includes
552	AA Batteries	Gauge; 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

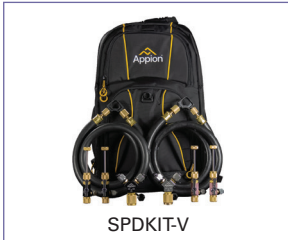
at the touch of a key. Advanced surface mount technology automatically compensates for ambient changes in the environment ensuring accuracy and consistency in performance. Advanced field-cleanable sensor is able to withstand 400 PSI of positive pressure. Unit operates 30 hours on 9V alkaline battery 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.



Part No.	Power	Includes
VG200	9V Alkaline Battery	Digital Vacuum Gauge, Gauge Hook, Adapter "T-fitting", Padded Vinyl Case

MANIFOLD



SPDKIT-V

MEGAFLOW™ SPEEDKIT-V

Features and Benefits

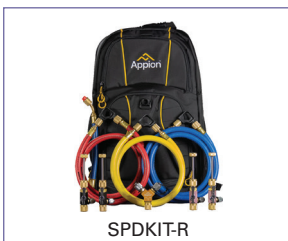
- Maximize the Flow of ANY Vacuum Pump - Works on all vacuum pump with 3/8in MFL and 1/2in MFL fittings
- Up to 16x Greater Flow when compared to evacuation with a

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 existing 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

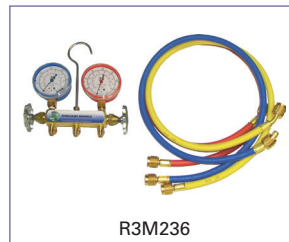


SPDY14

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

**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 with rugged

metal housings

- Aluminum block
- Additional schraeder valve "T" port
- Large easy-to-grip knobs
- R410A, R22, R404A scales, 2.5" gauge

cps®

Part No.	Nb. of Valves	Scale Type	Gauge Size (In.)
MBHP5E	2	R-22, 404A, 410A	2.5

**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

Imperial®
DEPENDABLE UNDER PRESSURE™

Part No.	Nb. of Valves	Scale Type	Includes
845-CC	4	R-22, 404A, 410A	Manifold Only

**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").

YELLOW JACKET®

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

*WARNING: This item may 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



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



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



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°.



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



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



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



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 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.	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



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

MANIFOLD



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 that's 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



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



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

CHARGING

MANIFOLD



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



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



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



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



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**MANIFOLD**

40193



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

CHARGING

AMMONIA



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



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



MANIFOLD



Part No.	Includes
41345*	60' Hose set, Set of R134a Couplers, set 1/2" fittings, set 14 mm fittings, set of hose anchors



COUPLER, SNAP ON

- 14 mm thread connection
- R134a automotive systems
- Color coded knobs



Part No.	Description	Length (In.)
21H	High Side Connector	5.00
21L	Low Side Connector	6.00



COUPLER, SNAP ON



Part No.	Description	Length (In.)
QCH90	Quick Coupler, Automotive, High Side	3.60
QCL90	Quick Coupler, Automotive, Low Side	4.00



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.



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



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

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



19157

COUPLER

Air fittings couplers designed to work with 1/2" Acme or 14mm threads. Made in the USA



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.



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.



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



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

CHARGING

HOSE



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



BALL VALVE HOSE, INTEGRAL, 1/4"

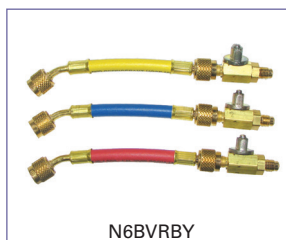
Premium refrigerant charging/vacuum hose with in-line positive shut-off ball valves.

- 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



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



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



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



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

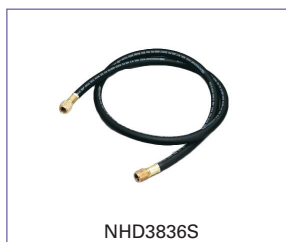
HEAVY DUTY HOSE, 1/4"

- 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

CHARGING

HEAVY DUTY CHARGING/VACUUM HOSE



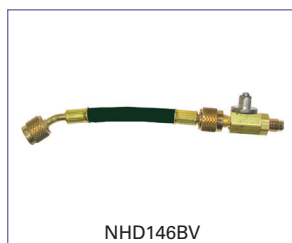
HEAVY DUTY VACUUM HOSE, 1/2"

- 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



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



BALL VALVE HOSE, EXTERNAL, 3/8"

Heavy duty refrigerant charging/vacuum hose with ball valve end. Full flow ball valve with positive shut-off.

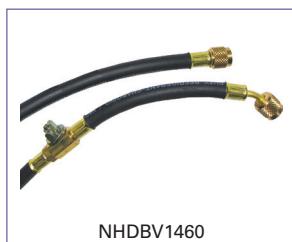
- 3/8" ball valve
- Straight, 3/8" male flare x 3/8"

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

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.



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.



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



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



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.



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

CHARGING

HOSE ACCESSORIES

HOSE ADAPTER

Adapter with valve core to retrofit standard 1/4" FFL fitting to 5/16" FFL



N516S



Part No.	Connection Type	Length (In.)
N516S*	Straight	4.30
N51645*	45°	3.20
N51690*	90°	3.20

COUPLER



QCH14



Part No.	Description	Length (In.)
QCH14	Quick Coupler, Automotive, Manual, High Side	3.40
QCL14	Quick Coupler, Automotive, Manual, Low Side	3.40

VALVES

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

A32525SVT

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



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)

VALVES

CORE REMOVER



VCR1

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)



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



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



MGA VCT

MEGAFLOW™ VALVE CORE REMOVAL TOOL

- 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



Part No.	Connection Size (In.)	Description
MGA VCT*	1/4	MegaFlow™ Valve Core Removal Tool
MGA VCR*	5/16	MegaFlow™ Valve Core Removal Tool



MGA BAS

MEGAFLOW™ BASICS EVACUATION KIT

- 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



Part No.	Connection Size (In.)	Description
MGA BAS*	1/2	Black Hose with 1/4" Valve Core Removal Tool (MGA VCT)



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



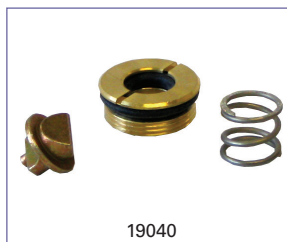
A32100

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

CHARGING

COUPLERS



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.



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



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.



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



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

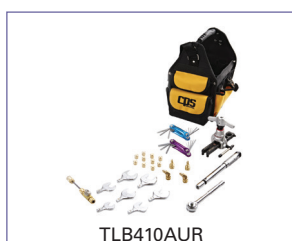
system without loss of refrigerant.

- Connection: 1/4" male flare x 1/4" female flare quick connect



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



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.



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 M x 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, and 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" Torque Wrench Head, 3 PK 5' Premium Hoses 21th Ball Valve Ends

QUICK CHARGER



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.



Part No.	Connection Size (In.)	System Size (Tons)
535C	1/4 FFL inlet x 1/4 MFL outlet	1/2 and larger

TUBING TOOL



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



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



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", 1/2", 5/8", 3/4", 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
DEPENDABLE UNDER PRESSURE

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
DEPENDABLE UNDER PRESSURE

Part No.	Includes
93FB	Tube for For 3/16", 1/4", 5/16", 3/8" and 1/2" O.D. tubing, case



525F

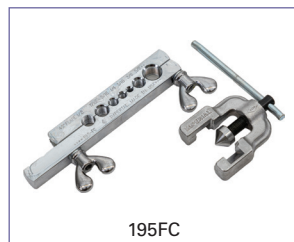
UNIVERSAL GRABBER® FLARE

Self-adjusting tube holding mechanism permits flaring any size tubing within the range of 3/16" to 5/8" OD.

- 45° flare

Imperial
DEPENDABLE UNDER PRESSURE

Part No.	Description
525F	"Grabber"™ Rol-Air™ 45° Flaring Tool, Flares and burnishes



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



FLARING TOOL, ROL-AIR®

- 45° flare



Part No.	Description
500FC	Flare tool, Rol-Air R, 45°, block detention flare system



FLARE KIT

- 45° flare tools



Part No.	Description
60240*	Flare kit, 45°, two bars, includes 60230



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



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°



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



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



FLARE/BURNISH

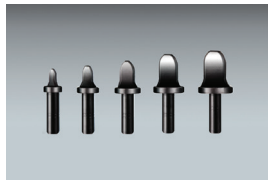
- Multifaceted cone rolls a precise flare and simultaneously polishes it on brass, copper and aluminum



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 surge 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



206FB

LARGE DIAMETER CUTTER

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



75015

CUTTER PARTS



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



TC1000

HEAVY DUTY CUTTER

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



60101

CUTTER

- 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



60160

MINI CUTTER

- 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



HST78

HAND SWAGGING TOOL



Part No.	Tube Size (In.)	Description
HST78	3/8, 1/2, 3/4, 7/8	Hand swaging tool, tube expander



93S04

SWAGE PUNCH

- 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

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TUBING TOOL

TUBING TOOL



SWAGE PUNCH



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



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



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



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-detent 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



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



BLACKMAX TUBING BENDER KIT

Used for cutting, deburring, 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



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



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, hardened steel blade holds its edge in both copper and ABS/PVC plastic



Part No.	Description
R308	Deburring Tool

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. Multi-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



SF4311

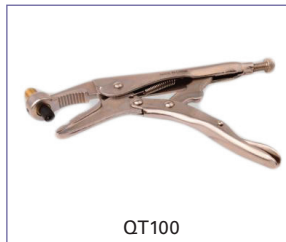
ACCESS TOOL

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	"FastTap" Tube Piercing Pliers
SF4314	Replacement Needle



QT100

ACCESS TOOL

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

SCREWDRIVER

SLOTTED



NRE10653



Part No.	Blade Width (In)	Insulated	Shank Length (In)
NRE10653	9/64	No	3
NRE47758	9/64	No	5



A216-6

SLOTTED CABINET TIP

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

HAND TOOLS

SCREWDRIVER



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



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



PHILLIPS



Part No.	Insulated	Shank Length (In)	Tip Number
NRE10776	No	3	1



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



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



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™

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	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)



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



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"



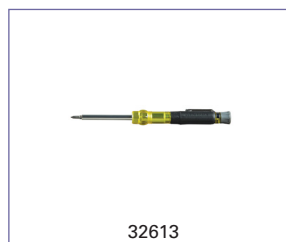
MULTI-BIT, RATCHETING STUBBY

- 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"



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)

*WARNING: This item may 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



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



Part No.	Description	Includes
85515HD	3-Piece	65200 Slim-Profile Mini Ratchet; 32932 5-in-1 Flip Socket; 32308 8-in-1 Multi-Bit Stubby Screwdriver



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



Part No.	Description	Includes
32910	7-in-1	Drive Size 1/4"; Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" Hex



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



Part No.	Description	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

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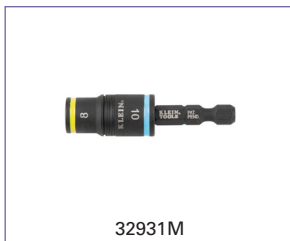


ALL-IN-1 PRECISION SCREWDRIVER SET WITH CASE

- 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 Company



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; Pentapole - P2, P5; Tri-Wing® - Y000, Y0, Y1; Stand Off; Spanner - #4, #6



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



Part No.	Description	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)

Continued on next page

Part No.	Description	Includes
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



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



Part No.	Description	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

HAND TOOLS

SCREWDRIVER



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



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



8-IN-1 INSULATED INTERCHANGEABLE SCREWDRIVER SET

- Interchangeable Insulated Screwdriver Set with an insulated handle, 5 interchangeable insulated blades, and a carrying pouch

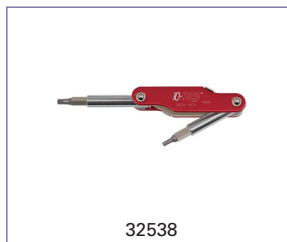
- Securely and easily release the

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



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



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



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"



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



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



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.



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

Continued on next page

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



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



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



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.



Part No.	Description	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"



NUT DRIVERS

- Standard length works for most applications
- Fits over long bolts and studs
- Color-coded handles for easy identification



Part No.	Description	Hex Opening (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

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

NUT DRIVER



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



Part No.	Description	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"



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



Part No.	Description	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"



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



Part No.	Description	Includes
SAB601	4-in-1	Nut Driver Size 1/4", 3/8", 5/16", 7/16"



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.



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

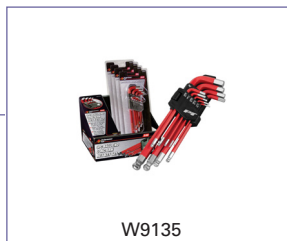


Z TOOL



Part No.	Description	Includes
ZT10	Dual with pivoting sockets	Nut Driver Size 1/4", 5/16"

HEX



9 PC. LONG ARM HEX KEY WRENCH SET



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.

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

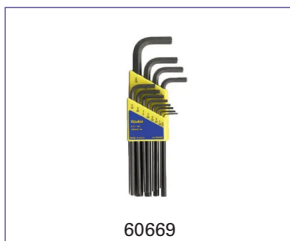
- Folding hex key set is compact and pocketable for convenient carrying and storing
- Effortlessly adjust key tightness or looseness with the convenient #2 Phillips fastener
- High-leverage blades open

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



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.



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



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

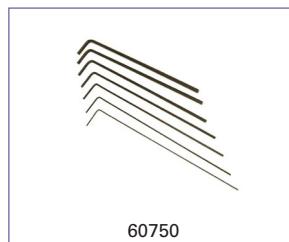
HEX KEY, T HANDLE

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.



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



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



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



C-RHEX® CLEANABLE, REVERSIBLE MAGNETIC HEX DRIVERS

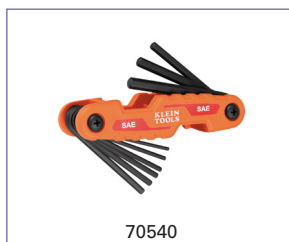
- The dual-sided hex socket fits over magnet-tipped, ball-detent locking hex shaft and is quickly reversed for changing sizes.
- Tested torque of the socket and shaft is equal to comparable

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
MSHXL	Reversible Red/Yellow	1/4, 5/16	6.00
MSHC1	Reversible Red/Blue	5/16, 3/8	2.00



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"



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



COMPACT FOLDING HEX KEY SET, 8-KEY, TORX® SIZES

KleinTools' 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. KleinTools' 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
70540T	8	T9, T10, T15, T20, T25, T27, T30, T40



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



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"



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.



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"



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.



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"

PLIER



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



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



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



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



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



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



Part No.	Description	Opening Width (In.)	Overall Length (In.)
J2139NECR	Side Cut - Yellow/Black handle	1.25	9.00



N9054

ADJUSTABLE



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

WISE GRIP



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



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



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 Blue 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



HIGH LEVERAGE SIDE CUTTING PLIERS

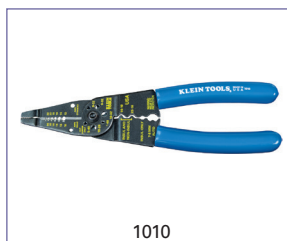
- High leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs
- Streamlined design with sure gripping, cross hatched knurled jaws

- 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



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



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.



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



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



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



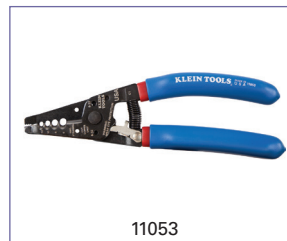
FORGED STEEL WIRE CRIMPER, CUTTER, STRIPPER

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



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

HAND TOOLS

WIRE STRIPPER/CRIMPER/CUTTER



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



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



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



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



Part No.	Description	Overall Length (In.)
J1005*	Journeyman™ - Red/Black handle	9 3/4

WRENCH



COMBINATION WRENCHES

- Forged from the highest quality alloy 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 angle offset to provide clearance over obstructions



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





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



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 an 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



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



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

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

HAND TOOLS

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

RIDGID

for instant grip, instant release

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

RIDGID

wide opening

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

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Overall Length (In.)	Description
NRE57771	10.00	Adjustable Pipe Wrench



D74PH

ADJUSTABLE

- Black phosphate finish

NRP 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



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



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



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



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



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.



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



RATCHET



Part No.	Size (In.)	Description
N1001	3/8, 1/2	2 Way
N1000	3/16, 1/4, 5/16, 3/8	4 Way

SERVICE WRENCHES

Straight, Heavy Duty and Off-set service wrenches offered. Made in the USA.



60612

- 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.



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



Part No.	Size (In.)	Overall Length (In.)	Description
60617*	1/8, 3/16	6.00	Sporlan valve wrench

UNITED REFRIGERATION INC.

CONNECT, LEARN, SUCCEED:

Join the United Student Community!

Kickstart your HVACR career with savings, resources, and support!

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- Exclusive URI.com Access - Thousands of technical documents, videos, & product info
- Hands-On Help - Branch experts ready to guide you



HEX KEY ADAPTER

- Fits 1/4" square drive shanks



RRW-3/16

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

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"



60609

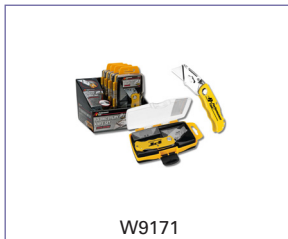
and 5/16" hex valves. Black oxide plated.



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

21 PC. FOLDING UTILITY KNIFE SET



W9171



Part No.	Description	Includes
W9171	21-piece	Utility knife, 20 SK5 blades, and a storage case

TELESCOPING MAGNETIC PICK UP TOOL

- Great for hard-to-reach places
- Powercap shields sides of magnet for focused lifting



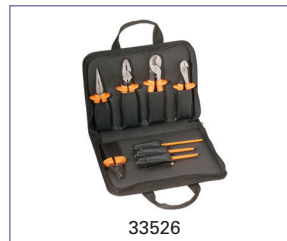
40155



Part No.	Description
40155	Pocket Telescoping Magnetic Pick-Up Tool

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



33526

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 ASTM F1505 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.



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

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



80118

providing added comfort and grip. This set also comes with a handy work belt and a 10-pocket tool pouch.



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

HAND TOOLS

TOOL SETS



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.



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



ELECTRICIAN'S POCKET KNIFE

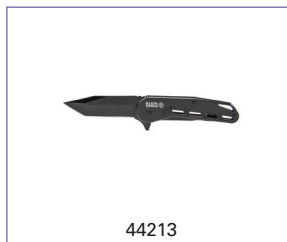
- Wire stripping notches on blade, stripping sizes 14-10 AWG
- Satin 440A stainless steel drop point blade
- Anodized aluminum handle for corrosion resistance
- Dual thumb studs for one-hand

open

- Liner lock secures blade in open position
- Pocket clip keeps knife readily available



Part No.	Description
44201*	14-10 AWG Drop Point Blade - Gray Handle



BEARING-ASSISTED OPEN POCKET KNIFE

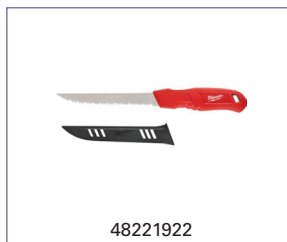
- Pocket Knife has 440A stainless steel, versatile drop point blade knife with both a fine and serrated edge
- Liner lock keeps the knife open
- Spring-loaded opening mechanism enables quick, easy

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



Part No.	Description
44213	Bearing-Assisted Open Pocket Knife - Black Handle
44223	Spring-Assisted Open Pocket Knife - Black Handle



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.



Part No.	Description
48221922	Serrated Blade Insulation Knife



UTILITY



Part No.	Description
DMK6H	Standard Utility Knife, Retractable Blade
N66372	Replacement blade for N66375., 5 pc.





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



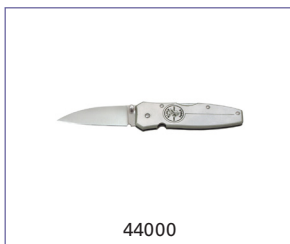
FOLDING JAB SAW

- 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



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



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



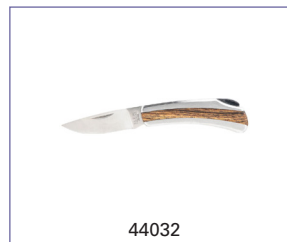
LOCKBACK KNIFE

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



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

HAND TOOLS

KNIFE, SAW

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



Part No.	Description
44151*	Knife Sharpener

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



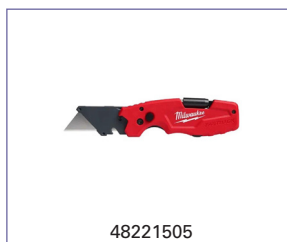
Part No.	Description
155024	Hawkbill Slitting Blade

HACKSAW



Part No.	Blade Length (In.)	Overall Length (In.)	Description
306	12.00	14	Hand Hacksaw
3906300242P	12.00	12	Hacksaw Replacement Blades 2pk

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



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

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

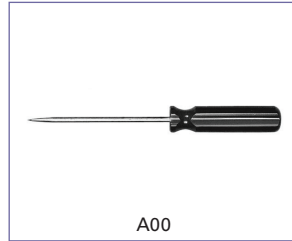
- full reinforcing bolster at handle for extra strength and for handle impact reinforcement
- Internal flanges provide solid shank anchor
- Cushion-Grip handle allows for greater comfort
- Made in the USA



Part No.	Handle Type	Blade Length (In)
650	Cushioned Grip	3.5

*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

STAPLER-RIVETER



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.

Malco

Part No.	Handle Type	Blade Length (In.)
A00	Regular	3
A20	Regular	4
A2AWL	Large Diameter	4
A3AWL	Large Diameter	5



DIVIDER

- Accurate and fast adjusting
- Points are easily resharpened or replaced
- Nickel plated steel body

Malco

Part No.	Max. Diameter Circle (In.)	Overall Length (In.)
18	32	11
24	42	13.5



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

Malco

- TRP - 1 pair replacement points

Part No.	Radius Range (In.)	Overall Storage Length (In.)
TR42	12	24

FILE



ROUND

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description
NRE22341	Mill Bastard File
N9076R	Round Bastard



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

BOSTITCH

Part No.	Staple Length (In.)
T68OC2	1/2 - 9/16



STCR2619-1/2

STAPLE

BOSTITCH

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.

Malco

Part No.	Description	Includes
2IN1	Hand Riveter	3 Nose Pieces: 1/8", 5/32" and 3/16"

HAND TOOLS

RULE

POWER TAPE



N9060

Rugged and durable. Exclusive no-drift locking action for accurate readings. Easy to read vertical numbering. Decimal equivalents for fast calculations



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 stand-out 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



Part No.	Tape Length (Ft.)	Description
9225	25	Power tape - magnetic double hook

CALIPER

Utility vernier caliper.

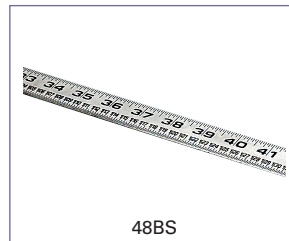


722

Part No.	Description
722	Caliper 0-5" range, 1/16" and mm grad
729	Caliper 0-4" range, 1/32" and mm grad

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.



48BS

- 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



Part No.	Tape Length (Ft.)	Description
48BS	48	50 circumference inches in 1/8" increments both sides

SAFETY

WORK GLOVE



A713



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 HDThermal 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



LEATHER WORK GLOVES



Part No.	Size	Color
60188	Large	Tan/Black
60189	X-Large	Tan/Black



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



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



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



Part No.	Size	Color
40211-KLEIN*	Medium	Black



SHOE COVER

Part No.	Size	Box Quantity	Color
NSC	X-Large	50	Black



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.



Part No.	Description	Size	Color
NSVXL	4 Stripes, 2" W	X-Large	Hi-Viz Yellow

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SAFETY



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



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



HEARING PROTECTION



Part No.	Description
NSBEP	Banded ear plugs designed to wear around the neck when not in use



KNEE PROTECTION

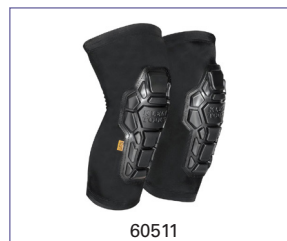
- Hinged Gel Knee Pads are designed with a top strap positioned above the knee to reduce shifting and to keep the knee pad centered
- Lightweight multi-layer pressure absorbing gel padding system

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



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)



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



Part No.	Size	Color
60511	M/L	Black
60611	L/XL	Black



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



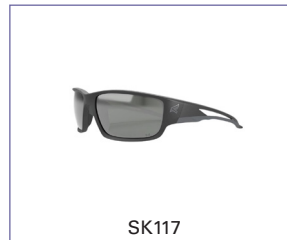
Part No.	Size	Color
60344	Adjustable	Black



SAFETY GLASSES, NRP



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+
TSKAP248G2	Aqua Blue Lens	White Frame	Z87+
TXB236	Polarized Smoke Lens	Black Frame	Z87+
TSKAP218	Polarized Aqua Precision Blue Mirror Lens	Black Frame	Z87+



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.

Part No.	Description	Color	ANSI Rating
SK117	Silver Mirror Lens	Metal Detectable, Black Frame	Z87+



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.

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

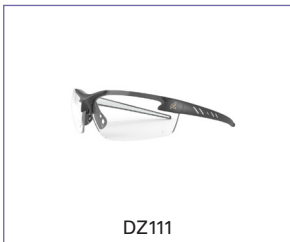
BRAZEAU SAFETY GLASSES

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.

EDGE

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.

EDGE

Part No.	Description	Color	ANSI Rating
DZ111	Clear Lens	Black Frame	Z87+
DZ113	Light Blue Lens	Black Frame	Z87+
DZ111.5	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.

EDGE

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.

EDGE

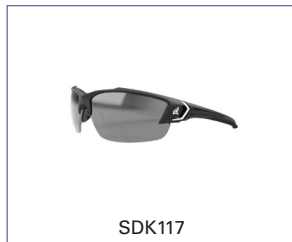
Part No.	Description	Color	ANSI Rating
SD111ARG2	Clear Lens	Metal Detectable, Black Frame	Z87+

**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. 

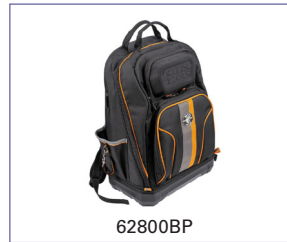
Part No.	Description	Color	ANSI Rating
SR116	Smoke Lens	Metal Detectable, Black Frame	Z87+

**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. 

Part No.	Description	Color	ANSI Rating
SDK117	Silver Mirror Lens	Metal Detectable, Black Frame	Z87+
TSDK21DCK	Smoke Lens	Camouflage Frame	Z87+

TOTE**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



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

**MISCELLANEOUS KLEIN TOOL ACCESSORIES**

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



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



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
- Trolley 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



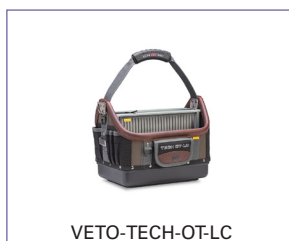
VETO-TPXL

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 additional 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



VETO-SB-LD

SB-LD TOOL AND METER BAG

- 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



VETO-OTMC

OTMC OPENTOOL BAG

- 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



VETO-SP-MC

SP-MC CLOSED-TOP TOOL POUCH

- 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

HAND TOOLS

TOTE



VETO-HOSE-HAULER

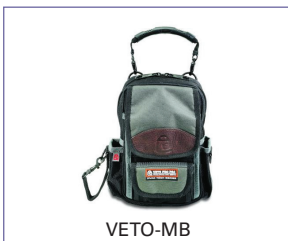
HOSE HAULER

- 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



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.



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

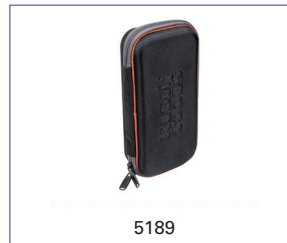
TOOL TOTE

- 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



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



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)



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



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



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

HAND TOOLS

STORAGE



BUCKET TRAY

Durable, lightweight plastic RoundUps™ bucket tray stacks or nests neatly in most 3½- 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



BUCKET ORGANIZER



Part No.	Description	Includes	Color
1119*	Bucket Organizer	48 Exterior and Interior Pockets	Black



BUCKET

- Order the lid separately

Part No.	Description	Color
URIBUCKET*	5 Gallon Bucket, Empty	Blue
URIBUCKETLIDG*	Lid with Gasket and Spout	Blue



COMPARTMENT BOX



Part No.	Description	Includes	Overall Length (In)
N5444	Metal Box, w/ Lid and Handle	24 Compartment	13.38

MODBOX



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



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

MODBOX ATTACHMENTS



54814MB



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

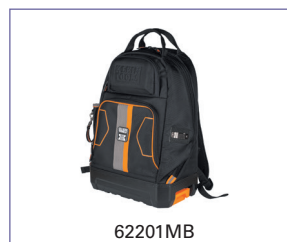
lighting angles

- 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

MODBOX BAGS



62201MB

- 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



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



KNECT™ FLIP-20 IMPACT SOCKET SET, SAE AND METRIC, 13-PIECE

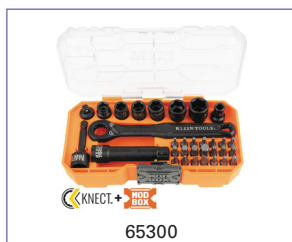
- Multi-purpose adapter makes the sockets compatible with the Klein KNECT™ system for unlimited driving potential
- Deep Well Impact Flip Socket Set includes 20 SAE and metric sizes

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



KNECT™ 1/4-INCH DRIVE IMPACT-RATED PASS THROUGH SOCKET SET, 32-PIECE

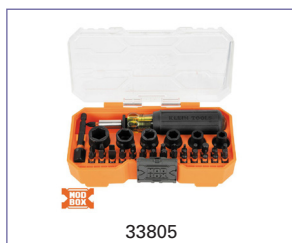
- Klein KNECT™ Small Pass Through Socket Set with 7 sockets, 21 screwdriver bits, extension, impact adapter, 1/4-Inch square adapter, and handle
- Pass through head for driving hex

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 PassThrough Socket Set	Drive Size: 1/4"; Socket Size 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"



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



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



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



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



Part No.	Description	Includes
32787	64-Piece Precision Ratchet and Driver System	Compact Case, 60 Bits, Cushion-Grip™ Handle and Ratchet

SCALE

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

SHOP TOWEL



NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Pkg Qty
N3125	Shop Towels	10 Pc.

BULK COTTON



MONARCH BRANDS

Part No.	Description	Pkg Qty
5RLF	Bulk Cotton Rag, Lint Free, Blue	5 lbs.

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.



Part No.	Description	Pkg Qty
RT600D	Viper wipes, waterless hand wipes	80 count

HAND TOOLS

SPILL RESPONSE



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



Part No.	Description	Pkg Qty
6000	Wypall®, L40 Wiper, White	100/pack
34790	Teri®, X60 Wiper, Reinforced, White	126/pack



HEAVY DUTY CLEAN-UP BAG

3 Mil, 7 bushel capacity

31930700

Part No.	Description	Pkg Qty
31930700	Heavy duty contractor bags, 3 mil	20/Bags



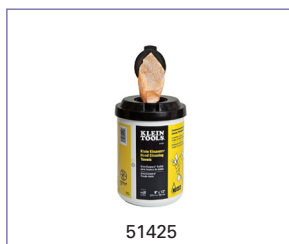
OIL ABSORBENT

- 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



Part No.	Container Size	Description
GS10	10 Lb bucket	Oil Absorbant, Reusable



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



Part No.	Description	Pkg Qty
51425*	Hand Cleaning Towels - Towel Size 9" x 12"	72 count



TERRY TOWELS

CL-BAR04

Part No.	Description	Pkg Qty
CL-BAR04	Terry Towels - white	3 lb box
CLTW4R	Terry Towels - "Bar" - white	8 lb bundle

MIRROR



INSPECTION MIRRORS

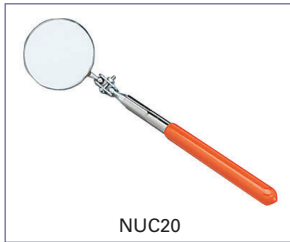
Telescoping and stainless telescoping inspection mirrors.



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



PLM2

LED INSPECTION

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

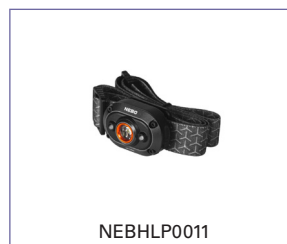
Rechargeable, waterproof (IP67) and extremely versatile, the SLYDE KING 2K features a 2,000 lumen flashlight with 4x zoom, and a 500 lumen C•O•B work light. Each light mode is

dimnable with programmable memory. The 2K also has an ergonomic rubberised grip and

NEBO

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

NEBO

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

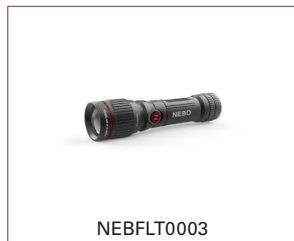
The Redline X Flashlight Rechargeable: Illuminate Your World. This powerful flashlight is a must-have for any outdoor enthusiast or emergency preparedness kit.

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.

NEBO

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

LIGHT



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



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



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



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



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

NEBO

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

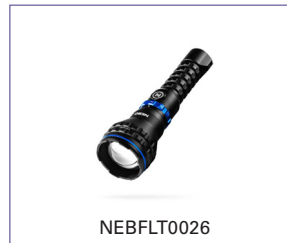
The DAVINCI® 18000 is the pinnacle product to NEBO's DAVINCI® rechargeable flashlight series and is the brightest to date with 18000 lumens making it perfect for camping, hiking, hunting, fishing or other outdoor

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!

NEBO

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.

NEBO

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

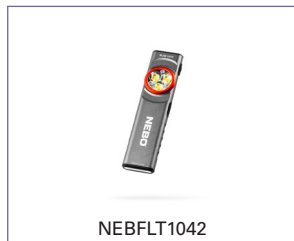
the first rechargeable version. The versatility of this light helps you get more done with less tools thanks to its' 7 light modes and upgraded 600 lumen work light, 220 lumen flashlight and 40 lumen red task light. With useful features like variable dimming, Direct-to-Red, Power Memory Recall, and a 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.

NEBO

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



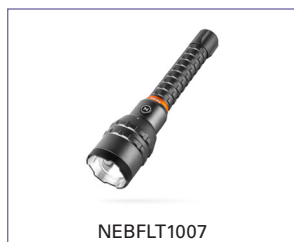
SLIM MINI RECHARGEABLE POCKET LIGHT

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



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 rechargeable 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



INSPECTOR 500+ FLEX PEN LIGHT

The 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	Power
NEBPOC1000*	INSPECTOR™ 500+ pen light Li-ion 10850 rechargeable battery; Micro-USB to USB charging cable; Product manual	Black	AAA



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



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



AL6V

BATTERY

- Industrial alkaline battery



Part No.	Description
AL6V	EN529 6V Industrial Alkaline Lantern SpringTop - 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



THE INSPECTOR PORTABLE LIGHT

- Lightweight
- Totally portable
- Two light 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



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



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



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



Part No.	Description	Color
N5230*	Extension Cord (3 Outlets), 25'	Orange
N5229*	Extension Cord, 50', 15A	Red



MOUNTED POWER STRIP

leinTools' 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



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

- 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

HAND TOOLS

BRUSH



CHIP

100% pure bristle, wood handle. Poly sleeve over bristles. Excellent for applying duct adhesive.



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



RADIATOR/FURNACE

- Single spiral / single stem
- Brush length: 7"



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



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

WIRE

Wire brush for cleaning all metals.



Part No.	Description
B4W	Welders Brush, Stainless Steel Bristles



WHISK

A plastic handled whisk for cleaning condenser and evaporator fins.



Part No.	Description
B26FW	Fin whisk, plastic handle



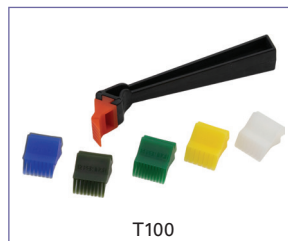
FIN TOOL, METAL

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.

Part No.	Description
T200	Fin tool, metal, adjusts to all fin spacings
T300	Fin tool, metal, heavy duty handle



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.



Part No.	Fins/Inch	Description
T100	8,9,10,11,12,14	Fin tool, multi head kit, nylon, color coded



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



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



CONDENSER TUBE, NYLON

- Nylon bristles
- Single spiral/single stem construction recommended for cleaning all tubes where deposits are light.
- Female

IRP International Refrigeration Products

couplings: 12-24 threads

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



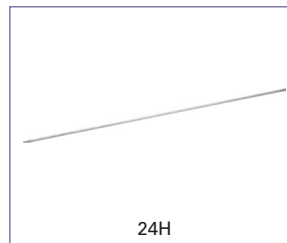
CONDENSER TUBE, BRASS

- Brass bristles
- Single spiral/double stem construction recommended for brass or copper tubes
- Brush length: 4"
- Female couplings:

SCHAEFER BRUSH MANUFACTURING™

12-24 threads

Part No.	Brush Diameter (In.)	Brush Length (In.)	Material
43604	3/8	4	Brass
43622	3/4	4	Brass



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



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

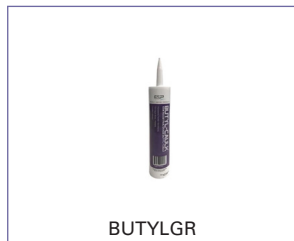


High strength polyester, braided, low stretch

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.



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



Part No.	Description
VULKEMGR	Grey Textured, Single-Component Polyurethane Sealant
VULKEMWH	White Textured, Single-Component Polyurethane Sealant



N3132

GREASE GUN

- Cartridge not included



Part No.	Description
N3132	Mini Grease Gun
N3100	Grease Gun, 14 Oz. Cartridge



N1212

GREASE GUN ACCESSORIES



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



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.



Part No.	Description
GFK1	Grease fitting kit, w/10' tubing



N28CG



Part No.	Description
N28CG	Caulking Gun

SHEET METAL TOOL

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



MB48

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

Malco

Part No.	Description
MB48	Portable mini break for sheet metal, 135° bends 22 gauge capacity
MBL	Leg Set with Bases and Fasteners

FOLDING TOOL

Folding seams are formed from two steel halves, permanently joined together. Handy sight holes assure proper depth alignment.



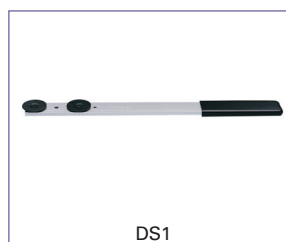
12F

Malco

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

DUCT STRETCHER

Use the duct stretcher to hold duct in place with one hand while slipping drive cleat in place with other hand.



DS1

Malco

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.	

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

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

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

*WARNING: This item may 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



ALUMINUM HANDLE SNIP

- Cuts straight, mild curves, and multiple layers
- Cuts to 24 ga. metal
- M12RB: Replacement blade for M12

Malco

Part No.	Description	Overall Length (In.)
M12N	Andy Aluminum Handled Snips	12
M14N	Andy Aluminum Handled Snips	14



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.

Malco

Part No.	Description	Overall Length (In.)
MC12N	Andy Aluminum Handled combination Snips	12
MC14N	Andy Aluminum Handled combination Snips	14



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



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



NOTCHER

Notcher makes a clean 30° V shaped cut in sheet metal.

Malco

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



HAMMER

One-piece forged, I-beam construction. Full-polished heads are corrosion-resistant. Hammer sections are individually hardened and tempered for strength and resiliency.

- Leather grip

Malco

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

HAND SEAMER



S2R

Malco

Part No.	Description
S2R	3 in. Hand Seamer
S3R	3 in. Offset Hand Seamer
S6R	6 in. Hand Seamer

BLADE CRIMPER



SC3R

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.

Malco

Part No.	Description
SC3R	Pipe Crimper, 3 Blades

PIPE CRIMPER



C5R

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

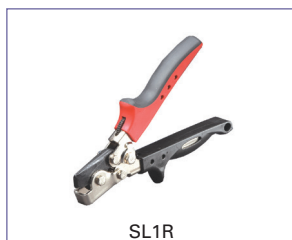
result in a tighter fitting, more self supporting, leak proof connection. Made with nickel plating to help resist corrosion and hardened steel for greater strength and resistance to abuse.

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.

Malco

Part No.	Description
C5R	Pipe crimper, 5 blades

SNAP LOCK PUNCH



SL1R

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.

Malco

Part No.	Description
SL1R	Snap lock punch, 3/8" throat depth

DUCT HOLDER



2DH

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.

Malco

Part No.	Description
2DH	Pair of Clamps with Chain

DUCT BOARD TOOL

SERRATED DUCT KNIFE

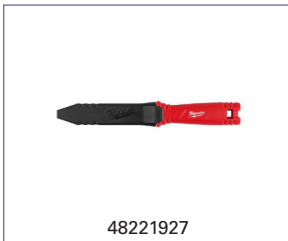


DK06



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.



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.

- Resharpenable



Part No.	Description	Color
DK6S	Duct Knife, Cushioned Grip, Serrated	Black/Red/Silver



KBHC

HOLE CUTTER

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.

Part No.	Description
KBHC	Replacement Blade for 1 1/2" Duct



PURPLE

SLED KNIFE



Part No.	Description	Color
PURPLE	Sled knife for 1" ductboard, male shi lap	Purple
ORANGE	Sled knife, modified corner shi lap	Orange
GREY	Sled knife for 1" ductboard, female shi lap	Grey
BLACK	Sled knife for 1-1/2" ductboard, female shi lap	Black
YELLOW	Sled knife for 1" ductboard, male shi lap	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



ORANGE-B

REPLACEMENT BLADE



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
MSHL3/8	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

Malco



CAEBH2C

ESHOK-GUARD™ MAGNETIC ISOLATED BIT HOLDER

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



49569607

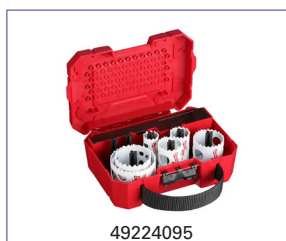
HOLE DOZER™ HOLE SAW BI-METAL CUPS

HOLE DOZER™ Bi-Metal Hole Saws new 3.5TPI 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.

Milwaukee

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



49224095

HOLE DOZER™ ELECTRICIANS HOLE SAW KIT - 10PC

10-Piece HOLE DOZER™ Electrician Hole Saw Kit features a new 3.5TPI 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.

Milwaukee

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" 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

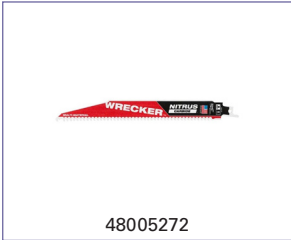


QUIK-LOK HOLESAW
EXTENSIONS

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



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



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 Flush Cut Metal Blade	3 5/8	14

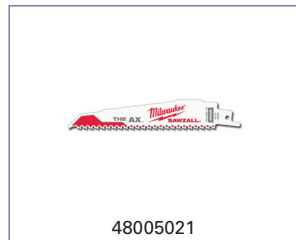


SAWZALL® THE AX™ WITH
CARBIDE TEETH WOOD BLADES

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 5TPI 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



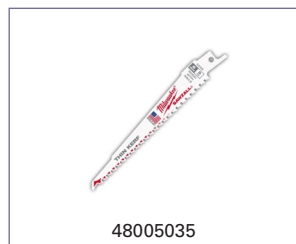
SAWZALL® THE AX™ NAIL EMBEDDED WOOD BLADES

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



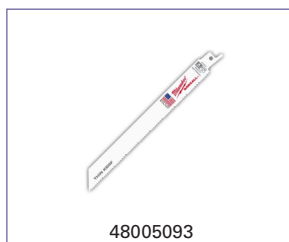
SAWZALL® NAIL EMBEDDED WOOD BLADES

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 1/2" 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



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 1/2" 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



SAWZALL® STANDARD METAL BLADES

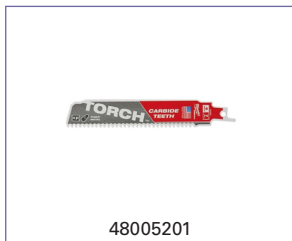
THE TORCH™ Metal Cutting Blades feature a tooth form optimized for the longest life and maximum durability. TOUGH NECK™ is engineered to protect against tang breakage and delivers

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



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



SAWZALL® TORCH™ METAL DEMOLITION BLADES

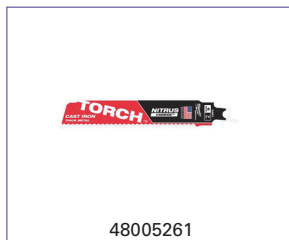
The Torch™ metal-cutting blades with the Double Duty Upgrade™ feature a tooth form optimized for the longest life and maximum durability. Tough Neck™ is engineered to protect against

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



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



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



Part No.	Description	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



32525

BITS

- 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.



Part No.	Description
32525*	Tamperproof Bit Set, 32 pc

JOBBER DRILL SET



FJ6180



Part No.	Description	Includes	Length (In.)
FJ6180	20-piece	Sizes: 61 to 80	5.50



N2008P

DRILL BIT

- High speed steel
- Jobber length
- Black finish



Part No.	Length (In.)	Size (In.)
N2008P	4.00	1/8



116DB

DRILL BIT

- 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



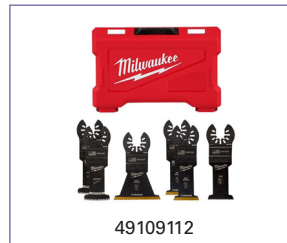
DE18

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

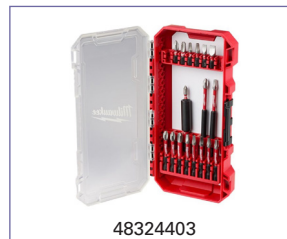
- Reinforced Universal Fit OPEN-LOK™ anchor for better strength & control
- Universal Fit OPEN-LOK™ Anchor fits all major brands of non-starlock tools
- Cut-away blade body shape for

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

Malco

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

Malco

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.

IRP International
Refrigeration Products

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 convenience.

- For heavier loads
- 1.5 inch polypropylene cam tiedown
- Weather and sunlight resistant
- 1125 lb test
- Easy thumb release
- Package of 2

IRP International
Refrigeration Products

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.



Part No.	Length (In.)
HS192	7.20



BNG39

MONKEY FINGERS ADJUSTABLE BUNGEE CORD



Part No.	Length (In.)
BNG39	39.00



TD10

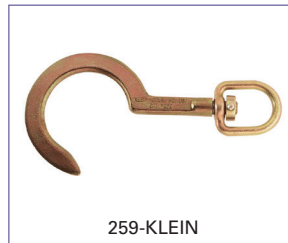
TIE DOWN STRAP

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.



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



Part No.	Length (In.)
259-KLEIN	1.00

Your URI Branch Is Closer Than You Think!

Local Inventory. Local Experts. Find Your Branch.

OXYACETYLENE WELDING/BRAZING

STUBBY™ KIT



NKA700M

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	Application
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 Connection	Application
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 Attachment - 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

OXYACETYLENE WELDING/BRAZING



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



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 O2 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 O2 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 O2 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

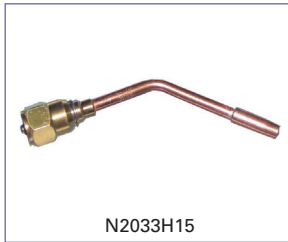
- Made of brass and copper



Part No.	Description	Copper Tube Capacity (OD In.)		
		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™

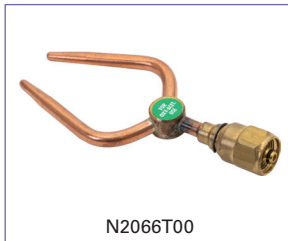


N2033H15



		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	Brazing	Tip Number
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	Brazing	Tip Number
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	Brazing	Tip Number
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

*WARNING: This item may 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



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	Brazing	Tip Number
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



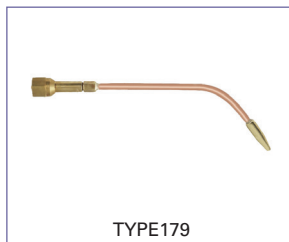
ROSEBUD TIP

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	Brazing
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



FLEXIBLE TIP

- 10 1/2" long with mixer



		Copper Tube Capacity (OD In.)	
Part No.	Description	Copper Tube	Brazing
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



MINIATURE TIP

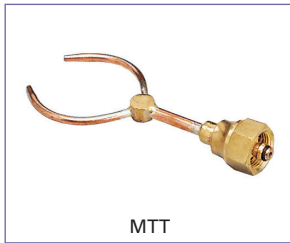
The high performance Micro 6000™ oxyacetylene brazing tips provide precise concentrated heat up to 6,000°F, assuring pinpoint brazing accuracy and minimizing the chances of overheating



adjacent components.

		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Brazing	Tip Number
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



		Copper Tube Capacity (OD In.)	
Part No.	Description	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.



		Copper Tube Capacity (OD In.)		
Part No.	Description	Copper Tube	Brazing	Tip Number
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.



		Gauges		
Part No.	Description	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

OXYACETYLENE WELDING/BRAZING



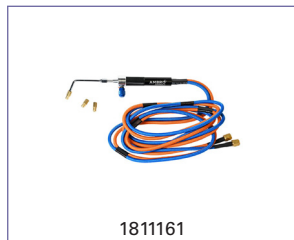
OXYSET MOBILE BRAZING SYSTEM

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.



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



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



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



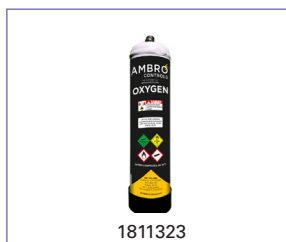
OXYSET BACKPACK

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



Part No.	Application
1811900	For storing & transporting Ambro Controls Oxyset Mobile Brazing System (1811168) sold separately



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.



Part No.	Description
1811323	Ambro Controls Replacement Oxygen Cylinder 1595 PSI



OXYGEN

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
125QEXC	Oxygen gas exchange	125
125QTANK	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

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 Style 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 GHHT1 Tip (Standard Single Tip)
NGHT100L*	Torch with GHHTL Piezo Lighter Tip (Push Button Ignitor)





NGA2

TARGET® TIP

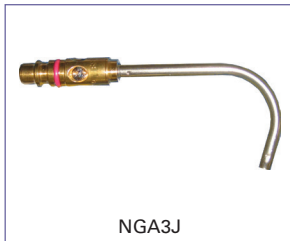
- Tips have a filter and removable orifice
- Interchangeable with other quick disconnect style tips
- Made of heavy stainless steel and brass
- Air

acetylene tip

- Snap in, quick connect style



Part No.	Flame Diameter (In.)	Copper Tube Capacity (OD In.)		
		Copper Tube	Soft Solder	Silver
NGA2	1/4	{Item.CopperTube Soldering Capacity (OD In\.)}	1/8 to 1/2	1/8 to 1/4
NGA3*	5/16	{Item.CopperTube Soldering Capacity (OD In\.)}	3/8 to 1 1/8	1/8 to 1/2
NGA5*	5/16	{Item.CopperTube Soldering Capacity (OD In\.)}	7/8 to 1 5/8	3/8 to 7/8
NGA8*	3/8	{Item.CopperTube Soldering Capacity (OD In\.)}	1 1/8 to 2 5/8	5/8 to 1 1/8
NGA11*	7/16	{Item.CopperTube Soldering Capacity (OD In\.)}	1 5/8 to 3 3/8	7/8 to 1 5/8
NGA14*	1/2	{Item.CopperTube Soldering Capacity (OD In\.)}	2 1/8 to 4 1/8	1 1/8 to 2 1/8
NGA32*	3/4	{Item.CopperTube Soldering Capacity (OD In\.)}	3 1/8 to 6 1/8	1 5/8 to 4 1/8



NGA3J

JTIP

- Adjustable and quiet
- Heat resistant
- Fits NGG4 handle
- Air acetylene tip
- Tip includes filter



Part No.	Flame Diameter (In.)	Copper Tube Capacity (OD In.)			Tip Number
		Copper Tube	Soft Solder	Silver	
NGA3J*	5/16	{Item.CopperTube Soldering Capacity (OD In\.)}	3/8 to 1 1/8	1/8 to 1/2	J
NGA8J*	3/8	{Item.CopperTube 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.



Part No.	Copper Tube Capacity (OD In.)		Tip Number
	Copper Tube	Brazing	
AT3	{Item.CopperTube Soldering Capacity (OD In\.)}	3/8 to 2 1/8	AT3
ATQ2	{Item.CopperTube Soldering Capacity (OD In\.)}	1/8 to 7/8	ATQ2
ATQ3	{Item.CopperTube Soldering Capacity (OD In\.)}	3/8 to 2 1/8	ATQ3
ATQ4	{Item.CopperTube 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.



Part No.	Copper Tube Capacity (OD In.)		Tip Number
	Copper Tube	Brazing	
ASQ21	{Item.CopperTube Soldering Capacity (OD In\.)}	to 1/16	ASQ21
ASQ22	{Item.CopperTube Soldering Capacity (OD In\.)}	to 1/8	ASQ22
S22	{Item.CopperTube Soldering Capacity (OD In\.)}	to 1/8	S22
S23	{Item.CopperTube Soldering Capacity (OD In\.)}	to 3/8	S23
S24	{Item.CopperTube Soldering Capacity (OD In\.)}	to 5/8	S24
S-25	{Item.CopperTube Soldering Capacity (OD In\.)}	5/8 to 7/8	S25
S26	{Item.CopperTube Soldering Capacity (OD In\.)}	7/8 to 1 5/8	S26



*WARNING: This item may 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 TOOLS

AIR/ACETYLENE BRAZING



S28

TWIN FLEXIBLE TIP

- Size S22 tip ends
- Solder 1/8"-3/8", braze to 1/8"



Part No.	Description	Copper Tube Capacity (OD In.)
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

GAUGE



NMA8016F



Part No.	Description	Gauges	
		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

REPLACEMENT GAUGE

- 1 1/2" diameter
- 1/8" MPT bottom



G15D



Part No.	Gauges	
	Delivery Pressure (psi)	Gas
G15D	0 to 3	Acetylene
G19D	full to 400	Acetylene
G49D	0 to 100	Oxygen
G56D	0 to 4000	Oxygen



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



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



FLAME TOOL ACCESSORIES



STAND, METAL

- Holds MC, R tanks



Part No.	Description
510	Tank stand, dual, holds "MC" and "R", utility tray



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



EZE-LITE TIPS

- Easy push button lighting
- Interchangeable with other quick disconnect tips
- Removable/cleanable orifice
- Fits NGG4 handle



Part No.	Flame Diameter (In.)	Copper Tube Capacity (OD In.)		
		Copper Tube Soldering Capacity (OD In.)	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



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

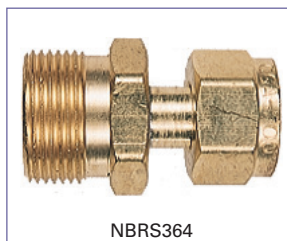


HALIDE LEAK DETECTOR

- 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



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



Part No.	Description
NMA2*	Cylinder Wrench



FRICTION LIGHTER



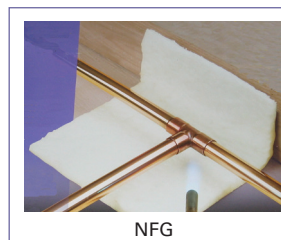
Part No.	Description
N3011*	Friction lighter
N3011X*	Friction lighter flints, 5/pack



FLINT LIGHTER



Part No.	Description
FL35	Triple Flint Lighter
FL36	Triple Flint Renewal
FL37	Single Flint Renewal (Pkg. 5)



FLAME GUARD

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"



NITRO-SAVER™ NITROGEN PURGE/BRAZE

- Preset flow rates for purging and brazing
- Internal filtering for constant flow
- Easy to use, attaches to any regulator with 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



UNITORCH® REGULATOR



Part No.	Description
RP3A	Unitorch® Regulator with A Outlet Fitting



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

FLAME TOOLS

FLAME TOOL ACCESSORIES



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



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



TIP CLEANER



Part No.	Description
TCLD	Tip cleaner, extra long sizes, 75-49

AIR MANAGEMENT TOOL



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



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



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 DrainKat™ Accessory Fitting Kit which contains the DF-75 DrainDawg™ 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

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



AP-06

ACCESSORY PACK

Accessory kit for MBK6



Part No.	Includes
AP-06*	Drain Dawg™, Tire Chuck, Universal Drain Cone, 15" Whip Hose



FA02

ACCESSORIES



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



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



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



Part No.	Description
R1349	CO Regulator, Light Duty



TGCB

TANK TEST GAUGE

Protect yourself against gas shortages by checking the cylinder contents.



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

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

CHARGING/TESTING



NITROGEN FLOWMETER



Part No.	Connection Size (In.)
NFM100F*	1/4 FFL x 1/4 MFL

DRAIN CLEANING



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



CO2 GUN KIT



Part No.	Description
NCO2K1	CO2 gun kit with 2 cartridges
NCO2C	Refrigerant grade CO2 cartridges (5), to use with NCO2K. Contains 12 grams of refrigerant grade CO2.



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



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"

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



MC

ACETYLENE

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

- CGA600 connection
- Non-refillable



MT1

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

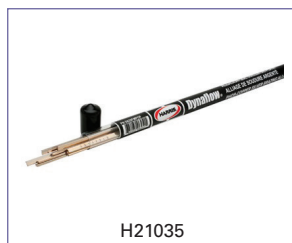
AL-COP BRAZE

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



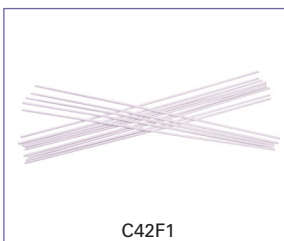
H76310

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

FLUX COATED

These high silver content, flux coated, cadmium free alloys are suitable for dissimilar metals such as steel to copper.

H76324



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

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.

45TCW25004



Part No.	Ag %	Sticks per Tube	Wire Size (In.)	Wire Length (In.)
45TCW25004*	45	4	0.078	19 2/3

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

WHITE PASTE FLUX

- An all purpose, low temperature flux for use with brazing rods and silver content above 5%



H40022



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%

LIQUID

- Used with silver bearing and tin solders



H40002



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

STAY CLEAN PASTE

- Used with silver bearing and tin solders



H40027



Part No.	Container Size	Use with
H40027*	4 Oz.	silver bearing and tin solders

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



RFP4

- 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

WETRAG HEATSHIELD



RT420H



Part No.	Container Size	Description
RT420H	1 Pad	Viper Wetrag Heatshiled - Flame - Resistant Pad

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



LENE4

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

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



437136

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

LA-CO®
Markal®

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

REFRIGERATION
 TECHNOLOGIES

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.

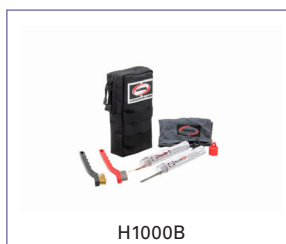
- Use with tin/antimony soft solders

RECTORSEAL

Part No.	Container Size	Use with
HC3	3 Oz	tin/antimony soft solders
HC12	12 Oz.	tin/antimony soft solders

SERVICE**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



H1000B

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

MESH CLOTH

- Open mesh sand screen cloth
- 180 Grit



NMSC5



Part No.	Length (Yards)	Description
NMSC5	5	Tube cleaning mesh cloth
NMSC10	10	Tube cleaning mesh cloth
NMSC25	25	Tube cleaning mesh cloth

TUBE CLEANING

66510



Part No.	Length (Yards)	Description
66510	10	Tube cleaning sand cloth
66525	25	Tube cleaning sand cloth

FASTENER



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



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



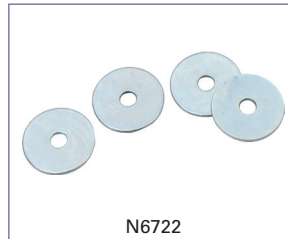
FLAT WASHER

- 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



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



SPLIT LOCK WASHER



Part No.	Nominal Size (In)	Pkg Qty
N6731	1/4	85
N6732	5/16	70
N6733	3/8	48



FINISHED HEX NUT

- Steel
- Zinc plated



N6501

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



MACHINE SCREW HEX NUT

- Grade 2 steel
- Zinc plated



N6500A

Part No.	Description	Pkg Qty
N6500A	Assortment, 6-32, 8-32, 10-32	60



SHEET METAL SCREW

- Slotted hex washer head
- Zinc plated steel



N6843H

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



SHEET METAL SCREW, PAN

- Combination: phillips/slotted
- Zinc plated steel



N6876

Part No.	Length (In.)	Screw Size	Pkg Qty
N6876	4.20	14	21
N6858PH	4.00	10	29
N6859PH	4.80	10	21



SHEET METAL SCREW, TEKS

- TEKS, self-drilling
- Zinc plated steel



N6943C

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

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

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

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

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

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



Part No.	SAE Number	Diameter (In.)		Pkg Qty
		Min	Max	
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
HW8X3/4Z	1/4"-8	1,000
HW8X1Z500	1/4"-8	500
HW8X11/2ZW250	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.



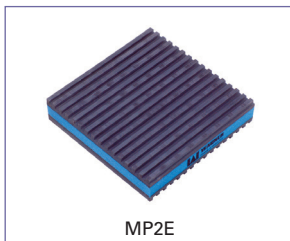
Part No.	Description	Thickness (In)
MP18*	Vibration dampening pad, rubber	0.38
MP2C*	Vibration dampening pad, rubber/cork	0.88
MP3C*	Vibration dampening pad, rubber/cork	0.88
MP4C*	Vibration dampening pad, rubber/cork	0.88

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

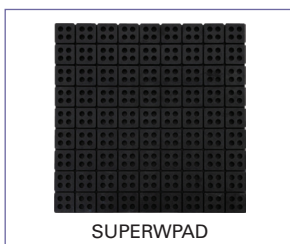
**EVA™ VIBRATION PADS**

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 than solid rubber. Designed to withstand 50 psi.



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

**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 pad,	0.75
R2X2SW*	Vibration dampening waffle pad,	0.75

**NEOPRENE HANGER**

Static deflection and vibration control in a steel strap for hanging loads.

- Double deflection neoprene element



Part No.	Depth (In)	Rated Capacity (Lbs.)
HDGREEN	1.75	<35
HDABBLACK	2.00	<45
HDAGREEN	2.00	30 to 75
HDARED	2.00	60 to 125
HDBRED	3.25	<235

**NEOPRENE SURFACE MOUNT**

Double deflection neoprene mounts for surface loads. High static deflections. Complete rubber covering for corrosion protection in outdoor or humid environments.



Part No.	Description	Maximum Load (Lbs)
NDABBLACK	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

**UNHOUSED SPRING MOUNT**

1" deflection mounts used on upper building levels with wide vibration sensitive spans.

- With baseplate



Part No.	Description	Capacity (Lbs)
SLFHA125	Vibration dampening neoprene hanger	125
SLFHA200	Vibration dampening neoprene hanger	200

**ISOLATION WASHER BUSHING**

Minimum isolation where mounts or hangers are not required.



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



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



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



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)	Thickness (Mils)
1507B	Polyken 444 Acrylic Printed Line Set Tape	2.00	Black	60.0	3.0
1507S	1507 Reflective BOPPTape	2.00	Silver	60.0	3.0
1507W	White Yard Line Set Tape & Reflective Insulation Seaming Tape	2.00	White	60.0	3.0



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

Berry

Part No.	Description	Width (In)	Roll Length (yd)	Thickness (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

Nashua Tape Products

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

Nashua Tape Products

Part No.	Roll Length (yd)	Thickness (Mils)
252-2-PRINT	60.0	11.0
252-3-PRINT	60.0	11.0



HVAC PREMIUM GRADE

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.

Nashua Tape Products

Part No.	Description	Width (In)	Roll Length (yd)	Thickness (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



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



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



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



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.



Part No.	Width (In)	Roll Length (yd)	Thickness (Mils)
1599B	1.90	120.0	3.0

ALUMINUM FOIL TAPE

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 Lined FSK Tape	50.0	6.6



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



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



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

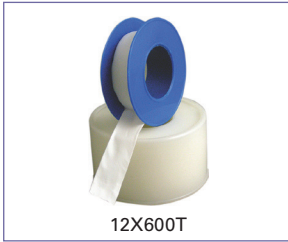
ELECTRICAL TAPE



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



TEFLON TAPE

- Withstands alkalies, acids, oils and solvents
- For thread sealing iron, stainless steel, copper, brass, plastic, glass or rubber pipes



Part No.	Width (In)	Color	Roll Length (yd)	Thickness (Mils)
12X600T	1/2	White	5.0	3.0



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.

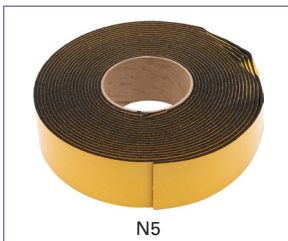
Service Temperature: -20°F to 220°F.

- UL Std. 723



Part No.	Width (In)	Color	Thickness (Mils)
5T530	2.00	Aluminum	17.0
5T540	3.00	Aluminum	17.0

INSULATION



TAPE

- Tape roll: 30' length, 2" wide, 1/8" thick
- 12 rolls/case



Part No.	Description	Width (In)	Color
N5	Pressure sensitive insulation foam roll	6.40	Gold
NRP1	Rubber asphalt insulation cork roll	8.20	Black

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 Ensure compatibility and efficiency with the most up-to-date components.

INSULATION

SEALING COMPOUND

- Nondrying synthetic polymer
- Off white color



NRP2



Part No.	Description	Case Qty*
NRP2	Sealing Gum, 2 Lb. Slug/Box	24
NRP38	Sealing Cord, 3/8" Bead, 25'	12

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



IF1212

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

SCRUBS™

- Famous Scrubs hand cleaner towel



436687



Part No.	Container Size	Description	Case Qty*
436687	72 Sheets	Hand cleaner towel, "Scrubs TM", 72 sheets	6

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

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



MUKIT

- 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

HEAVY DUTY GARDEN HOSE

- 5/8" premium heavy duty garden hose



58125

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

MISCELLANEOUS

WATER HOSE FITTING



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



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



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

ACCESSORIES



573C



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





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

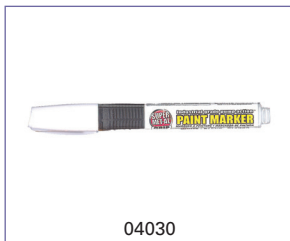
Use to clearly identify refrigerant type in systems. Aerosol containers are 16 oz. size. Sold individually, but come in cartons of 6. 2300 Series are spray-any-way cans while 2700 Series



are regular all purpose.

Part No.	Color
2355N	Flat Black
2387N	OSHA Yellow
2389N	OSHA Red

MARKING



04030

PAINT MARKER

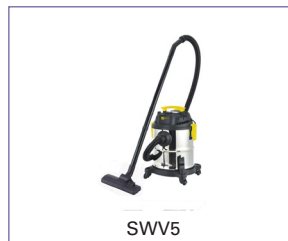
Pump Action Fiber Tip Paint Markers
Industrial grade paint marker. Designed to perform in the toughest environments imaginable. Bright marks on hard to mark surfaces including: metal, wood,

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



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



Part No.	Description
PJSFM2	Rechargeable Clamping Fan

FIRE EXTINGUISHER



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



Part No.	Description
466142MTL	2.5 lb Commercial ABC Dry Chemical Multi-Purpose Fire Extinguisher

FOLDING CART



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 effortlessly 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



Part No.	Description
F3SCBL	3 Shelf Heavy Duty Folding Jobsite Cart - 300-lb Capacity

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