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Pick and choose what you need in your R-290 service kit

014R290	R-290 Refrigerant 14 Oz Propane
211117	Chempenn R290 Charging Scale
GASMATE	Leybold Inficon Combustion Gas Detector
N00RRNRP	7" Pinch Off Tool
NSCT	NRP Caution Tape
ATC114	Anchor Tube Cutter 1/8 To 1 - 1/14"
BPV31	Supco 3 In 1 Line Tap
NTPH12RBY	Critical Charge Hose Set Of 3 45, Straight, 1/4 FFL
RM290	R290 Gauges/Manifolds

Available at your local branch and www.uri.com



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ELECTRICAL TESTER



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 offer 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.	Comments	Price
FLUKE177	1000V Max., 32 mA	\$699.98
FLUKE179 ¹	Capacitance, Frequency, True RMS	\$739.98

¹Includes premium test lead set



FLUKE83III

DIGITAL MULTIMETER, 80 SERIES

Provide 11 functions for electronic and industrial applications, including high performance DC/AC voltage and current, 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.	Comments	Price
FLUKE83-5	Multimeter	\$799.98
FLUKE87V	True RMS, High Resolution	\$899.98



FLUKE233

DIGITAL MULTIMETER, WIRELESS

- Removable display gives the user ultimate flexibility in unusual measurement scenarios
- Removes the dilemma of trying to take measurements in hard-to-reach places
- Can be used in areas where the operator can't be close to the active measurement point, like clean rooms or hazardous areas
- True-rms ac voltage and current for accurate measurements on non-linear signals
- Built in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument
- Resistance, continuity and diode test
- Low power wireless technology allows the display to be carried up to 33 ft away from the point of measurement
- The removable magnetic display can be conveniently mounted where it is easily seen
- Make measurements without holding the meter to improve visual focus on probes and augment safe electrical measurements
- Use as a conventional multimeter when the display is connected
- Radio transmitter automatically turns off when the display is connected to the meter
- Battery life approximately 400 hours
- IEC standards: CAT IV 600V, CAT III 1000V

FLUKE

Part No.	Comments	Price
FLUKE233	Capacitance, Frequency, Temperature, True RMS	\$719.98

DIGITAL MULTIMETER SPECIFICATIONS

	FLK3000FC	FLUKE116	FLUKE177	FLUKE233	FLUKE179	FLUKE83-5	FLUKE87V
Vdc							
Max	1000	600	1000	1000	1000	1000	1000
Resolution	1 V	0.1 mV	1 mV	0.1 mV	.1 mV	.1 mV	.01 mV
Accuracy	±0.15%+2 counts	±0.5%+2 counts	.1%	0.25%+2 counts	.1%	.10%	.05%
Vac							
Max	1000	600	1000	1000	1000	1000	1000
Resolution	1 V	0.1 mV	1 mV	0.1 mV	.1 mV	.1 mV	.1 mV
Accuracy	2%+3 counts	2%+3 counts	1% ¹	1%+3 counts	1% ¹	.5%	.7%
Adc							
Max	400 mA	600 µA	10	10	10	10	10
Resolution	0.1 mA	.1 µA	.01 mA	0.1 mA	.01 mA	.01 mA	.1 µA
Accuracy	0.5%+3 counts	1%+2 counts	1%	1%+3 counts	1%	.4%	.2%
Aac							
Max	400 mA	600 µA	10	10	10	10	10
Resolution	0.1 mA	.1 µA	.01 mA	0.1 mA	.01 mA	.1 µA	.1 µA
Accuracy	1.5%+3 counts	1.5%+3 counts	1.5%	1.5%+3 counts	1.5%	1.2%	1%
Resistance							
Max							
Resolution							
Accuracy	1.5%+3 counts	.9%+1 count	.9%	—	.9%	.4%	.2%
Capacitance							
Max	1000 nF to 9999 µf	1 µf to 10K µf	1000 nF to 9999 µf	1000 nF to 9999 µf	1000 nF to 9999 µf	9999 µf	9999 µf
Frequency							
Max	99.99 Hz to 99.99 KHz	0.01 Hz to 50 kHz	100 Hz to 100 KHz	0.01 Hz to 50 kHz	100 Hz to 100 KHz	.5 Hz to 200 KHz	.5 Hz to 200 KHz
Temperature							
Range	—	-40°F to 752°F	—	-40°F to 752°F	-40°F to 752°F	—	-328°F to 1994°F
¹ To 500 Hz							



FLUKE1587FC

FLUKE CONNECT™, DIGITAL INSULATION MULTIMETER, WIRELESS

Combines a digital insulation tester with a full-featured, true-rms digital multimeter in a single compact, hand-held unit, which provides maximum versatility for both troubleshooting

and preventative maintenance.

Adds four powerful new diagnostic functions through the **Fluke Connect® Measurements app**:

- PI/DAR timed ratio tests with TrendIt™ graphs identifies moisture and contaminated insulation problems faster
- Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking over time
- Temperature Compensation through app for establishing accurate baselines and relevant historical comparisons
- Historical tracking and trending of assets identifies degradation over time, allows real-time decisions to be made in the field with Fluke Connect® Assets (sold separately)

Features

- Live circuit detection prevents insulation test if voltage >30 V is detected for added user protection
- VFD low-pass filter for accurate motor drive measurement
- Auto-discharge of capacitive voltage for added user protection
- Insulation test: 0.01 Mfi to 2 Gfi
- Insulation test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V
- AC/DC voltage, DC millivolts, AC/DC milliamps, resistance (fi), 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
- Included accessories: remote probe, test leads and probes, alligator clips, K-type thermocouple
- Accepts optional Fluke TPAK Magnetic Meter Hanger for convenient hands free operation
- CAT III 1000 V, CAT IV 600 V measurement category

Part No.	Comments	Price
FLUKE1587FC	AC/DC Voltage, DC Millivolts, AC/DC Milliamps, Resistance (O), Continuity, Capacitance, Diode Test, Temperature, Min/Max, Frequency (Hz)	\$1,629.98



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

Measures:

- AC and DC voltage measurements to 1000V
- AC and DC current with 0.01 mA resolution
- Continuity, resistance, diode test, capacitance and frequency measurements
- MIN/MAX Recording
- IEC standards: CAT III 1000V, Category IV 600V, IP54

Part No.	Comments	Price
FLK3000FC	AC DC Voltage, AC DC Current, Continuity, Resistance, Diode Test and Capacitance	\$599.98



flu e116

DIGITAL MULTIMETER, 110 SERIES

Designed to support first level electrical and electronic troubleshooting. All meters offer ac and dc volts, ohms, capacitance diode test, continuity beeper, easy-to-read digital display, autoranging, and sleep mode to preserve battery life.

- The Fluke116 is protected to Category III 600V with transient overvoltage protection to 6 kV
- Three year warranty

Part No.	Comments	Price
FLUKE116	Multimeter, Temperature, µA	\$409.98

ELECTRICAL TESTER



FLUKE116323

HVAC COMBO KIT

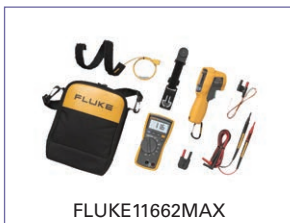
116/323 Kit includes:

- Fluke 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

FLUKE

Part No.	Comments	Price
FLUKE116/323	Fluke HVAC Combo Kit	\$629.98



FLUKE11662MAX

TECHNICIAN COMBO KIT

116/62MAX+ Kit includes:

- Fluke 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

FLUKE

Part No.	Comments	Price
FLUKE116/62MAX+	Fluke Technician Combo Kit	\$559.98



FLK3000FCHVAC

FLUKE CONNECT™, HVAC SYSTEM SERVICE KIT, WIRELESS

The Fluke FC Wireless HV AC 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.

Kit includes:

- 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

FLUKE

Part No.	Comments	Price
FLK3000FCHVAC	Fluke Connect™, HVAC System Service Kit	\$1,259.98



HS35

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 tes
- Capacitance for motor-run and motor-start capacitors
- Frequency for variable frequency drives
- Rugged rubberized case with magnetic hanger
- Hi-voltage indicators you can't miss—both LED and beeper turn on to indicate you've touched a potentially dangerous voltage
- Continuity indicated by LED and beeper
- Max. hold automatically holds reading so you can look at the meter after you've disconnected
- Low ohms ranges for motor windings and mid range for thermistors
- Auto-power off to extend battery life
- UL Cat III 600V pending



Part No.	Description	Price
HS35	Stick DMM	\$520.00
HS36	Stick DMM, True RMS	\$618.00



EHD1

HANDLE MODULE

Converts any Fieldpiece accessory head into a standalone instrument. Min./Max. to record highest and lowest reading.

- Ranges: 200mV AC, 2000mV AC, 200mV DC, 2000mV DC.

- Resolution: 0.1mV.n
- Accuracy DCV: $\pm(0.5\%rdg + 1dgt)$.
- Accuracy ACV: $\pm(1.2\%rdg + 3dgt)$ 50500Hz.
- Overload protection: 30V DC or 24V AC.



Part No.	Description	Price
EHD1	Electronic Handle	\$88.00



LT17A

DIGITAL MULTIMETER

Features and functions designed for HVAC/R.


- Microamps for flame rectifier diode tests
- Low ohm ranges for motor windings
- Medium ohm ranges for thermistors as well

**LT17A only**

- Frequency for variable frequency drives
- Temperature: K-type thermocouple plugs directly into meter. No adapter to lose
- Capacitance for motor start/run capacitors

Part No.	Description	Price
LT17A	Digital Multimeter, μ f, frequency, temperature	\$348.00

RANGE AND ACCURACY SPECIFICATIONS

Function	HS35/HS36*		LT17A	
Ranging	Auto	Accuracy	Manual	
Counts	4000	Resolution	2000	Accuracy
Bargraph	X			Resolution
Vac	400m	1.2%+3/0.1m	200m	1.5%+5/0.1
	4000m	1.2%+3/1m	2000m	1.5%+5/1.0
	40	1.2%+3/0.01	20	1.5%+5/0.01
	400	1.2%+3/0.1	200	2%+5/0.1
	600	2%+5/1	600	2%+5/1.0
Vdc	400m	0.5%+1/0.1m	200m	0.5%+1/0.1
	4000m	0.5%+1/1m	2000m	0.5%+1/1.0
	40	0.5%+1/0.01	20	0.5%+1/0.01
	400	0.5%+1/0.1	200	0.5%+1/0.1
	600	0.5%+1/1	600	0.5%+1/1
Aac	200 (A)	2.5%+2	200μ	1.5%+5/0.1
			20m	1.5%+5/0.01
			200m	1.5%+5/0.1
			400	4.5%+5/0.1
μAdc	400μ	1%+1/0.1μ	200μ	1%+1/0.1
	4000μ	1%+1/1 μ		
Adc			20m	1%+1/0.01
			200m	1%+1/0.1
				3%+3/0.01
Temp. °F	400°F	1°F/0.1	200 °F	1°F/0.1
	1000°F	1°F/1	1400 °F	3%+7°F/1
MFD	400	3%+5/0.1m	200	4%+10/0.1
			2000	4%+10/0.01
			20k	
Ohms	400	1%+4/0/1	200	1%+4/0.1
	4K	1%+4/1		
	40K	1%+4/10		
	400K	1%+4/100	200k	1%+4/0.1
	4M	1.5%+4/1K		
	40M	3%+5/10K	20M	3%+4/0.01
Hi-V indicator	C	>30V		
NCV	C	>24VAC		
Continuity	C		X	
Diode	X		X	
Frequency, Hz	X		X	

*HS36 is True

A = with clamp

C = LED and beeper signal

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ELECTRICAL TESTER



FLKA3000FC

FLUKE CONNECT™, AC CURRENT CLAMP MODULE, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings

from safe distances, and get your job done easier than ever before. The FLKA3000FC 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

Wirelessly relays measurements to other Fluke Connect™ enabled master units, listed below:

- Fluke 3000 FC DMM
- Fluke Ti200/300/400 Infrared Camera
- PC via optional pc3000 FC Adapter
- Fluke Connect Mobile app

FLKA3001FC includes one true-rms flexible current meter and one iFlex™ i2500-10 flexible current probe. The iFlex™ wireless current module allows you to measure around awkward sized conductors or get into tight spaces



Part No.	Comments	Price
FLKA3000FC	True-RMS AC Clamp Meter, Measures up to 400 A AC, resolution 0.1 A	\$399.98
FLKA3001FC	True-RMS iFlex™ AC Clamp Meter, Measures up to 2500 A AC, resolution 0.1 A	\$499.98



FLUKE902FC

FLUKE CONNECT™ DIGITAL HVAC CLAMP MULTIMETER, WIRELESS

The Fluke Connect™ system of test tools communicates with the Fluke Connect mobile app on your Android™ or iOS smart device, allowing you to share live measurements, monitor readings from

safe distances, and get your job done easier than ever before.

- Capture and trend measurements safely from outside the arc blast zone and easily create and send reports from the field with Fluke Connect®
- 600 A ac current measurement
- Resistance measurement to 60 kΩ
- 600 V ac and dc voltage measurement
- Temperature measurement from 14 to 752°F
- 1000 μF capacitance measurement
- DC Current measurement to 200 μA
- True-rms voltage and current for accurate measurements on non-linear signals
- Min and max recording to capture variations automatically
- Compatible with ToolPak™ magnetic hanging strap
- CAT III 600V, CAT IV 300V safety rating
- Includes: clamp meter, one pair TL75 test leads, one 80BK integrated DMM temperature probe, 2 AA alkaline batteries



Part No.	Comments	Price
FLUKE902FC	Wireless, True RMS, A, Temp.	\$649.98



CLAMP METER SPECIFICATIONS

	323	324	365	373	374FC	375FC	376FC	381	902FC
Vdc									
Max		600	600	600	600	600	1000	1000	600
Accuracy		1%	2%	1%	1%	1%	1%	1%	1%
Vac									
Max	600	600	600	600	600	600	1000	1000	600
Accuracy	1.5%	1.5%	2%	1%	1.5%	1.5%	1.5%	1.5%	1%
Adc									
Max			200		600	600	999.9	999.9	200μA
Accuracy			2%		2%	2%	2%	2%	1%
Aac (Jaw)									
Max	400	400	200	600	600	600	999.9	999.9	600
Accuracy	2.5%	1.5%	2%	2%	2%	2%	2%	2%	2%
Aac (I-Flex)									
Max					2500	2500	2500	2500	
Accuracy					3%	3%	3%	3%	
Resistance W									
Max	400	400	6000	6000	6000	60000	60000	60000	10000
Accuracy	1%	1%	1%	1.5%	1%	1%	1%	1%	1.5%
Temperature									
Range									
Frequency Hz									
Max						500	500	500	
All accuracy ±5 digits; (capacitance ±2 digits)									



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

FLUKE

Part No.	Comments	Price
FLUKE374FC	Wireless, True RMS, AC/DC Amps, Volts, Ohms, Capacitance, iFlex Compatible	\$789.98
FLUKE375FC	Wireless, True RMS, AC/DC Amps, Volts, Ohms, Capacitance, Frequency, iFlex Compatible	\$899.98
FLUKE376FC	Wireless, True RMS, AC/DC Amps, Volts, Ohms, Capacitance, Frequency, w/ iFlex	\$999.98



FLUKE323

DIGITAL CLAMP MULTIMETER

- All meters measure true-RMS
- Display hold
- Soft carrying case
- 320 Series: Two year warranty
- 370, 380 Series: Three year warranty

FLUKE

Part No.	Comments	Price
FLUKE323	AC Amps, AC/DC Volts, Ohms	\$309.98
FLUKE324	AC Amps, AC/DC Volts, Ohms, Capacitance, Temperature	\$449.98
FLUKE365	AC/DC Amps, Volts, Ohms, Removable Clamp	\$539.98
FLUKE373	AC Amps, AC/DC Volts, Ohms, Capacitance	\$519.98
FLUKE381	AC/DC Amps, Volts, Ohms, Capacitance, Remote Read, with iFlex	\$1,299.98



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.

- Volts AC/DC, True RMS, 400 Amps AC, Temperature F/C, Capacitance
- Non-contact voltage
- 40 Mega Ohm with 0.01 resolution
- Continuity, Diode Test, Max/Min/Hold
- LCD Backlight



Part No.	Description	Price
SC260	Compact Clamp Meter	\$302.00



SC680

WIRELESS POWER CLAMP METER

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.

Help determine system efficiency by directly measuring power consumption (W) of the system. Use this value to inform your customer of energy saving measures you can take to help them save money on their energy bills.

The SC680 is 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. 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.

Verify the order of 3-phase voltage lines with just two leads. Capture L1-L2 and L1-L3 to check that motor lines are correctly installed with Phase Rotation test.

- Measures Power (kW)
- Use on variable frequency drives (VFDs)
- True RMS & Low Pass Filter for VAC/Hz
- Test Diodes and Resistance up to 50MΩ
- AC/DC Amps, Dual Temp
- Swivel Clamp
- Molex tip leads for small power connectors
- Indicates 3-phase rotation with two leads
- Measures start/run capacitors
- Magnet for mounting meter during use
- Safety rated CAT IV-600V/CAT III-1000V SC680
- Backlit dial



Part No.	Description	Price
SC680	Swivel Head Clamp Meter, Dual Temp, True RMS, Large Backlit Display	\$784.00

ELECTRICAL TESTER



DL369

DIGITAL CLAMP METER

The new G2 Phoenix series offers the highest combination of functions, features, and safety offered in a meter today. All G2 Phoenix series meters offer AC/DC volts, AC amps, DC pumps, resistance/continuity, capacitance, frequency and diode checks.

DL389 offers the following additional features:

- True RMS reading
- User temperature calibration
- Input jack lock
- Detachable clamp head
- Worklight
- Magnetic mount
- EasyView high contrast backlight display
- Compatible with common industry accessories heads



Part No.	Description	Price
DL369	Digital Clamp, G2 Phoenix Prime	\$153.90
DL389	Digital Clamp, G2 Phoenix Pro+, True RMS, Temp.	\$359.90

RANGE AND ACCURACY SPECIFICATIONS

Features	DL369	DL389
Max. Display Counts	4000	4000
Auto/Manual Range	AM	AM
True RMS		•
Continuity Beeper	•	•
Min/Max	•	•
AC and DC Amps	•	•
Auto Power Off	•	•
Low Battery Indicator	•	•
Data Hold	•	•
Frequency	•	•
Capacitance	40nf to 4000µf	40nf to 4000µf
Warranty (Yr.)	3	3
DCV Max	1000	1000
DCV Best Resolution	0.0001	0.0001
ACV Max	750	750
ACV Best Resolution	0.001	0.001
DCA Max	0.002	0.002
DCA Best Resolution (Amps)	0.01µA	0.01µA
ACA Max	400	400
ACA Best Resolution	0.01	0.01
Base Accuracy (DCV)	±0.5% + 4 dgts	±0.5% + 4 dgts
Ohms Max	40M	40M
Ohms Best Resolution	0.1	0.1
Frequency Range (Hz)	100K	100K
Temperature (°F)	–	–22 to 752
Listing UL/CE	CATIII 600V, CATII 1000V	CATIII 600V, CATII 1000V



CL390

AC/DC DIGITAL CLAMP METER

- Test lead holder on side of clamp and optional magnetic hanger for meter (Cat. Nos. 69445 or 69417) for hands free operation
- Non-contact voltage tester integrated into the clamp jaw

- High-visibility reverse contrast LCD display for improved view ability in all ambient lighting conditions
- Automatically ranging True Root Mean Squared (TRMS) measurement technology for accuracy
- Measures AC/DC current and NCVT via clamp and AC/DC voltage, resistance, frequency, DC microamps, capacitance, duty cycle, diode test, and continuity via test-leads, and temperature with thermocouple
- Measures temperature with a K-Type thermocouple probe
- Max/Min, Rel/Zero and Data Hold capability
- Auto-power off after 10 minutes to conserve battery life
- Includes a carrying case, test leads with CAT III/CAT IV safety caps, thermocouple, instructions, and 3 x AAA batteries
- Low battery indicator and easily accessible battery compartment
- Built to withstand a 6.6-Foot (2 m) drop
- CAT III 600V, Class 2, Double insulation safety rating
- Meets requirements for use in basic and controlled electromagnetic environments like residential, office and light-industrial location



Part No.	Comments	Price
CL390	AC/DC current, NCVT via clamp, AC/DC voltage, resistance, frequency, DC microamps, capacitance, duty cycle, diode test, and continuity via test-leads, and temperature with thermocouple	\$179.98



7703

HOOK-CLAMP MULTIMETER, BLUETOOTH

Unique hook-on function separates and grabs wires without using your hands. Retractable post makes hook release fast and easy.

Meter automatically identifies testing in-process and selects correct meter configuration to save time and optimize accuracy. Real-time power measurement (Watts) with simultaneous power factor indication

- Inrush (starting) current capture
- Auto Power Off, Min/Max/Hold
- Cat IV 600V
- µA for flame rod
- Type-K thermocouple, High capacitance
- Frequency measurement
- Temperature: -4° to 932°F
- Dimensions: 9.5 x 3.8 x 1.7
- Bluetooth: the Testo App can be used for remote viewing, monitoring trending over time, and creating reports (that include photos, data, and graphs that can be saved or sent via email)



Part No.	Description	Price
7703	Hook-Clamp Multimeter, Bluetooth, True RMS, AC/DC, Watts, µA, Resistance, Capacitance, Temperature	\$500.00



SC440

DUAL DISPLAY CLAMP MULTIMETER

- Volts AC/DC
- Duty cycle %
- 400 Amps AC
- Dual display
- Temperature F/C
- Capacitance

- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode Test
- Hold
- Low battery indicator
- True RMS
- Inrush current
- Magnetic strap
- Clamp probe holder
- LCD backlight



Part No.	Description	Price
SC440	Dual Display Clamp Meter, True RMS	\$418.00



SC640

SWIVEL HEAD CLAMP MULTIMETER

- Volts AC/DC
- Swivel clamp
- Magnetic strap
- Dual display
- Temperature F/C
- Capacitance

- Duty cycle %
- 400 amps AC
- Microamps DC
- Frequency via leads and clamp
- Non-contact voltage
- 50 Mega Ohm with 0.1 resolution
- Continuity
- Diode test
- Hold
- Clamp probe holder
- Low battery indicator
- True RMS
- Inrush current
- Probe storage
- Dial backlight
- Clamp jaw light
- LCD backlight



Part No.	Description	Price
SC640	Swivel Head Clamp Meter, True RMS, Large Backlit Display	\$528.00



I200

CURRENT CLAMP ADAPTER

- Meter output: 1 mA/Amp
- Use I200 on Fluke 20 Series meters, Fluke 73
- I400 and 80I600 on Fluke 20 Series, 70 (except 70), 80 Series
- IEC standards: CAT III 600V, CAT IV 600V (I400 only)



Part No.	Description	Price
I200	AC Clamp Adapter	\$349.98
I400	AC Clamp Adapter	\$329.98



M500

INSULATION/MEGOHM METER

Specifically designed as an inexpensive alternative to costly taut band (swing needle) megohmmeters. Will accurately measure insulation values up to 1000 megohms at 500 Vac and also indicate the condition of insulation on the zone scale.



- Batteries: (2) C size 1.5 volt (not included)

Part No.	Description	Price
M500*	Electronic Megohmmeter	\$283.16

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

ELECTRICAL TESTER



ET600

INSULATION RESISTANCE TESTER

- Voltage Tester tests insulation resistance up to 4000Mfi 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,-
- CAT IV 600V and CAT III 1000V safety rating
- Includes Right Angle Test Leads and Heavy-Duty Alligator Clip Test Leads



Part No.	Description	Price
ET600	Voltage Tester tests insulation resistance up to 4000Mfi at 25V, 250V, 500V, and 1000V DC	\$314.98



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 A WG 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)	Comments	Price
T6600	1fl to 2 k	0-600V	\$399.98
T61000	1O to 1 kO	0 - 1000V	\$559.98



NCVT4IR

NON-CONTACT VOLTAGE TESTER WITH INFRARED THERMOMETER

- Designed specifically for H AC 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)	Price
NCVT4IR	12 to 1000	\$83.70



1LACA

AC VOLTAGE TESTER

- Detects voltage without metal contact
- FLUKE1ACA1II now has category IV safety rating and a 2 year manufacturer's warranty



Part No.	Range (Vac)	Price
FLUKE1LACAII	24 to 90	\$61.32
FLUKE1ACA1II	90 to 1000	\$61.34



ACH4

CURRENT CLAMP

ACH4 measures to 400 AAC.

- Current range: 1A to 400A rms
- Accuracy: $\pm 1.5\%$ rdg + 1 dgt.
- Maximum conductor size: 0.91" (23mm)
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
ACH4	Current Clamp Head, 400A	\$112.00

**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% rdg + 2 digits)
- DC voltage accuracy: \pm (2% rdg + 2 digits)
- Resistance accuracy: \pm (5% rdg + 3 digits)
- 2 year warranty
- CAT IV 600 V, CAT III 1000 V

FLUKE

Part No.	Description	Price
T+PRO	AC/DC: 12 to 600 on LED bar, 10.2 to 600 on LCD	\$219.98

**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 capacitor
- Batteries required: (4) AA 1.5 Vac (not included)

Supco

Part No.	Description	Price
MFD10	Capacitor Tester	\$143.00

**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 seri-

al-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.	Description	Price
4678571	Inverter Check Kit, 3.19" L x 2.88" W x 1.10" H	\$401.68

ELECTRICAL TESTER ACCESSORIES**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 temperature
- 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.	Description	Price
TL175	TwistGuard™ test leads, 19 to 4 mm exposed probe tip length	\$69.98

**SUREGRIP™ LEADS**

- New design makes clips, hooks, probes more versatile
- Improved ergonomic design
- Superior gripping surface made from thermoplastic rubber
- Rated 1000V CAT III, 600V CAT IV, 10A

FLUKE

Part No.	Description	Price
TL220	Set AC220, TP220, TL222, Pair Each	\$169.98
TL223	Set AC220, TP1, TL224, Pair Each	\$169.98
TL221	Test Lead Extension Straight Both Ends, 1.5 Meters, Pair	\$67.98
TL222	Test Lead Extension, 90° Both Ends, 1.5 Meters, Pair	\$67.98
TL224	Test Lead Extension, Straight x 90°, 1.5 Meters, Pair	\$65.98
TP220	Probe Ends	\$45.98

INSTRUMENTS

ELECTRICAL TESTER ACCESSORIES



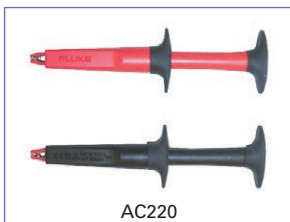
TL75

TEST LEADS

- IEC standards: CAT III 1000V, 10A, CAT IV 600V, 10A

FLUKE

Part No.	Description	Use with	Comments	Price
TL40	Retractable Tip Test Lead, Pair	320 and 330 Series	Adjustable Tip Length: 0 to 76 mm	\$99.98
TL71	Premium Test Lead Set	Fluke DMMs	Recommended for μ V Measurements	\$65.98
TL75	Test Lead Set	Fluke DMMs	PVC Insulated, 1500V, 48"	\$55.98
TP1	Test Probe, Pair	T5600	—	\$45.98



AC220

SUREGRIP™ PROBES

- New design makes clips, hooks, probes more versatile
- Improved ergonomic design
- Superior gripping surface made from thermoplastic rubber
- Rated 1000V CAT III, 600V CAT IV, 10A

FLUKE

Part No.	Description	Price
AC220	Alligator Probe Clip, Pair	\$99.98
AC285	Alligator Clip, Pair	\$59.98



AC175

ALLIGATOR CLIP

- Slide-on alligator clips (red, black) compatible with TL71, TL75, TL175 and TP175 (AC175)
- Insulated alligator clip jaws provide 8 mm opening with flexible boots (AC175)

- IEC standards: CAT III 1000V, CAT IV 600V

FLUKE

Part No.	Description	Comments	Price
AC175	1000V, 10A Insulated Clip	1 Red, 1 Black	\$67.98



AC89

TEST CLIP

- IEC standards: CAT III 1000V, 5A, CAT IV 600V, 5A

FLUKE

Part No.	Description	Comments	Price
AC89	Insulation Piercing Test Clip	Single Probe	\$99.98



ATL55

TEST LEAD

UEI
TEST INSTRUMENTS

Part No.	Use with	Price
ATL55	All DMMs, Clamps, Insulated, Industry Standard	\$27.90



ADK7

TEST LEADS

Leads for all meters.

Fieldpiece

Part No.	Description	Price
ADLS2	Test Lead, Separable Probe	\$60.00
ADK7	Test Lead Kit. Includes ADLS2, Removable Probe Tips & Alligator Clips	\$80.00



RF16

FUSE

Fieldpiece

Part No.	Description	Use with	Price
RF16	Fuse, 0.1A/250V, pkg 4	LT16, LT17	\$14.00
RFM66	Fuse, 0.25A/700V, pkg 4	SC66/76/77, HS35/36, LT16A/17A	\$44.00

FUSE



FUSE630MA

FLUKE

Part No.	Description	Use with	Price
FUSE630MA	Fuse, 630 mA, 250V, Pkg. 5	21, 23-II; 75, 77-II; 21, 73, 75-III	\$153.98
871202	Fuse, 3A, 600V, Pkg. 5	25, 27, 8060A, 8062A	\$38.32
871207	Fuse 1A, 600V, Pkg. 5	83, 85, 87 <s/n 65650001	\$99.98
FUSE2A	Fuse, 2A, 250V, Pkg. 5	8060A, 8062A	\$169.98
871223	Fuse, 15A, 600V, Pkg. 5	83, 85, 87 <s/n 65650001	\$99.98
943121	Fuse, .44A, 1000V, Pkg. 1	23, 26, 77, 79-III; 83, 85, 87-III; 867BE	\$14.40

FLUKECONNECT ADAPTER



FLKPC3000FC

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.	Description	Price
FLKPC3000FC	FlukeConnect Adapter and Software, USB Key	\$199.98

BATTERY



A76BP

Part No.	Use with	Comments	Price
A76BP	DM5, PDT300, DT10K, UTL7002	Pkg. of 2	\$4.40

CASE



C25

FLUKE

Part No.	Description	Use with	Price
C23	Soft, Zippered Vinyl, Belt Loop, Inner Pocket	61, 65 & 320 Series	\$79.98
C25	Soft, Zippered Vinyl	20, 50, 70, 80 Series in Holsters	\$89.98
C35	Soft, Velcro Strap	20, 70, 11X, 170 Series	\$59.98
C50	Soft Case	20, 50, 70 Series Without Holsters	\$91.98
C20	Heavy Duty	Fluke 25, 27	\$159.98
C100	Large Hard Case	Any DMM except 10, 50 Series	\$131.98
C101	Deluxe Hard Case, w/ Diced Foam Interior	All Fluke Industrial Test Tools	\$159.98
C115	Soft Case, w/ Shoulder Strap	20, 70, 11X, 170 Series	\$79.98
H3	Holster	Fluke 330 Series	\$81.98
H5	Holster w/ Flap for Lead Storage & Built-In Belt Loop	T3, T5 Testers	\$79.98

CASE



ANC8

Fieldpiece

Part No.	Description	Price
ANC1	4 Pockets, 1 Meter, 2 Heads	\$46.00
ANC8	4 Pockets, 2 Meters, 4 Heads	\$84.00
ANC7	1 Pocket, Clamp Meter	\$24.00

TOOLPAK™



TPAK

- Kit includes: 9 inch hook and loop strap, universal hanger clip, hook hanger for non magnetic surfaces and a strong magnet.
- Solves almost any hanging and positioning problem

- The universal hanger allows you to hang your meter on nails, hooks and many other objects.
- Compatible with many Fluke instruments.

FLUKE

Part No.	Description	Price
TPAK	Meter Hanging Kit	\$93.98

PRESSURE MODULE



PV350

PRESSURE/VACUUM MODULE

- Digital pressure and vacuum measurements in a single module
- Measures HVAC/R, hydraulic and pneumatic pressures to 500 psig
- Measures to 29.9" Hg
- Compatible with most popular DMMs



Part No.	Description	Price
PV350	Pressure & Vacuum Module	\$1,279.98



AVG2

VACUUM

Displays pressure in microns in steps of 1 microns. Has pump down indication showing progress from atmospheric pressure.

- Range: 50 to 2000 microns of mercury

- Resolution (steps): 1 micron of mercury
- Pump down indication: output of head goes from over 3V DC at atmosphere to 2V DC at 2000 microns
- Straight-in access to sensor for easy cleaning
- Fitting: 1/4" flared brass fitting (mal)
- Accuracy: (75°F): ±10%, 200 to 700 microns of mercury; ±25% <200 and >700 microns
- Auto-off can be disabled for data logging
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
AVG2	Vacuum Gauge Head	\$245.96



SSX34

SUPERHEAT/SUBCOOLING

Measures refrigerant pressure and temperature and calculates superheat for four refrigerants in English or metric units.

- Display pressure in PSI or kPa
- Display temperature in °F or °C
- Display superheat in °F or °C

- Display subcooling in °F or °C
- Accepts K type thermocouple; ATC1 included
- Select R22, R410A, R404 or R134a



Part No.	Description	Price
SSX34	Superheat/Subcooling Gauge	\$596.00



ASX14

TEMPERATURE PRESSURE

Measures refrigerant pressure and temperature and calculates superheat for two refrigerants in English or metric units.

- Display pressure in PSI or kPa
- Display temperature in °F or °C
- Display superheat in °F or °C

- [ASX14 ONLY] Display subcooling in °F or °C
- Accepts K type thermocouple; ATC1 included
- Select R22 or R410A
- Auto-off can be disabled for data logging
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
ASX14	Superheat/Subcooling Head (R22/R410A)	\$457.66

TEMPERATURE TESTER



JL3KH6

JOB LINK® SYSTEM CHARGE AND AIR KIT

Take a full system snapshot quickly and easily with the JL3KH6 Charge and Air Test Kit. All measurements can be sent up to 350' away directly to your mobile device with the Job Link® System mobile app. 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!

- Wireless Range: 350 feet or more
- Wireless Frequency: 2.4 GHz
- Auto Power Off (APO): 2 hrs (can be disabled)
- Minimum Device Requirement: BLE 4.0 devices running iOS® 7.0 or Android™ 5.0
- Job Link Pressure Probe - JL3PR
 - Connector Type: 45° Standard 1/4" NPT female flar
 - Best Accuracy: ±1 psig
 - Measurement Range: 0 to 580 psig
 - Maximum Overload: 800 psig
 - Water Resistant: Designed to IP55
- Job Link Premium Pipe Clamp Probe - JL3PC
 - Pipe Compatibility: Electrically conductive 1/4" to 1 3/8" dia.
 - Accuracy: ±1°F
 - Measurement Range: -50°F to 257°F
 - Stabilization Time: 3 seconds typical
 - Measurement Feedback: Beeper and LED
 - Water Resistant: Designed to IP55
- Job Link Flex Psychrometer Probe - JL3RH
 - Flexible Probe: 0.36" diameter, 9.25" length
 - Best Accuracy: ±1°F ±2.5 %RH
 - Measurement Range: -4°F to 140°F, 0 %RH to 100 %RH



Part No.	Description	Price
JL3KH6	Includes: 2 Job Link Pipe Temp Probes, 2 Job Link Pressure Probes, 2 Job Link Psychrometer Probes, Padded Carrying Case, 2 x AAA Batteries Per Probe (12 Total)	\$1,392.00



IRT121B

INFRARED

- Temperature measurement range: -58 to 1022°F
- Accuracy: $\pm 1.5\%$
- Measurement repeatability: 1% of reading or 1°
- Resolution: 0.1°F

- Response Time: 250 msec for 95% response
- Battery Life: 22 hrs typ with laser off. 12 hrs typ with laser on.



Part No.	D:S Ratio	Price
IRT121B	12:1	\$144.38



FLUKE561

INFRARED AND CONTACT THERMOMETER

- Contact thermometry capability, compatible with all standard mini-connector K-type thermocouples, preserves your investment in thermocouples

FLUKE561:

- Velcro® pipe probe for superheat and sub-cooling and other contact and ambient measurements
- MIN, MAX and DIF functions help you quickly identify problems
- Response time: 500 mSec (95% of reading)
- Emissivity: adjustable with 3 settings, low (0.3), medium (0.7), high (0.95)
- Power: 2 AA batteries (alkaline or NiCD), included

FLUKE568:

- Confidently measure a wide variety of surfaces with the adjustable emissivity feature, including a built-in material table
- Easily trend and analyze data with included FlukeView® Forms software Two-in-one infrared and contact thermometers with an innovative dot matrix display.
- See your data right away without leaving the site, using the USB and your laptop for Hands-free datalogging
- Response time: <500 mSec
- Emissivity: by built-in table of common materials or digitally adjustable from 0.10 to 1.00 by 0.01
- Power: 2 AA/LR6 batteries included



Part No.	Temperature (°F)	D:S Ratio	Price
FLUKE561	-40 to 1022	12:1	\$484.08
FLUKE568	-40 to 1472	50:1	\$947.58



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)



Part No.	Temperature (°F)	D:S Ratio	Price
FLUKE62MAX	-22 to 932	10:1	\$236.88



TI250

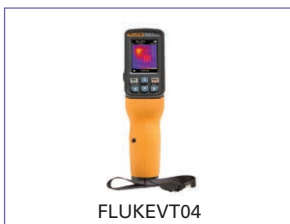
THERMAL IMAGER

- 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
- Includes thermal imager, micro-USB charging cable, carrying case, and instructions



Part No.	Accuracy	Description	Price
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)	2.4" TFT LCD display, 10,800 pixels, <60mK thermal sensitivity,	\$681.00

TEMPERATURE TESTER



VISUAL INFRARED THERMOMETER

Detects issues instantly! This Fluke Visual IR Thermometer combines the convenience of a spot thermometer with the visual advantage of an infrared camera creating a brand new tool category.

- Built-in digital camera
- Blend digital and thermal images to instantly show the exact location of the issue.
- Blend between 0%, 25%, 50%, 75%, and full thermal with one button
- Fully automatic with built-in intelligence
- True pocket size design
- 40% than entry-level infrared cameras
- Store up to 10,000 images per Gb on included SD card and make professional reports on included professional software
- Automatically identifies hottest and coldest spots within field of view
- Temperature range: 14°F to 482°F
- High/low temperature alarm
- Time lapse image capture
- Auto-monitor alarm

FLUKE

Part No.	Accuracy	Temperature (°F)	Description	Price
FLUKEVT04A	±2°C or 2%	14 to 482	Visual Infrared Thermometer	\$1,143.98



SMART AND WIRELESS INFRARED THERMOMETER

- 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
- Includes: Testo 805i, Bluetooth infrared thermometer with App, 3 AAA batteries and certificate of calibration
- Measuring range -22 to 482°F
- Accuracy:
 - ±2.7°F or ±1.5% of reading (32 to 482°F)
 - ±3.6°F (-4 to 322°F)
 - ±4.5°F (-22 to -4°F)
- Resolution 0.1°F

testo

Part No.	Description	Price
805i	Infrared Thermometer, Bluetooth	\$230.00



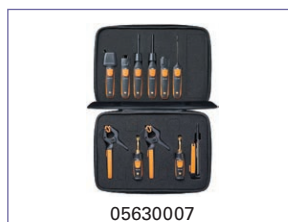
INFRARED AND AIR

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
- Measurement range: 14 to +122°F
- Accuracy: ±0.9°F
- Resolution: 0.1°F
- Infrared Sensor
- Measurement range: -22 to +572°F
- Accuracy: ±3.6°F (-22 to +212°F); ±2% of reading (213 to 572°F)

testo

Part No.	Temperature (°F)	Description	Price
0810	-22 to 572 (infrared)	Infrared/NTC Air Thermometer	\$218.00



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

- Carry out all measurements in the areas of heating, air conditioning, refrigeration and ventilation with one kit
- Carry out all measurements in the areas of heating, air conditioning, refrigeration and ventilation with one kit Measurement data is transmitted to the convenient and powerful testo Smart Probes App in your smart device
- HVAC softcase holds the complete set of smart probes
- The individual Smart Probes can be combined with one another for a variety of application

Kit Includes

- 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

testo

Part No.	Description	Price
05630007	Smart Probes – HVAC/R Complete Kit: (2x) testo 115i / (2x) testo 549i / (2x) testo 605i / testo 405i / testo 410i / testo 510i / testo 805i / testo 905i / testo HVAC softcase	\$2,058.00



115i

SMART AND WIRELESS PIPE CLAMP THERMOMETER

- Measures temperature of pipes in heating and cooling systems
- Use with testo 549i Refrigeration Pressure Probe to calculate superheat and subcooling

- Quickly identify temperature changes by monitoring real-time trending and data logging
- 115i NTC temperature sensor is more accurate and stable than thermocouples
- Includes: 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
- Measuring range -58 to 302°F
- Accuracy $\pm 2.3^\circ\text{F}$ (-4 to 185°F)
- Resolution 0.1°F

Users can read the measurements using the testo Smart Probes App installed on their smart device 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.	Description	Price
115i	Pipe Clamp Thermometer, Bluetooth	\$158.00



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, listed below.
- Fluke 3000 FC DMM
- Fluke TiX560/520 Infrared Camera
- Fluke Ti200/300/400 Infrared Camera
- PC via optional pc3000 FC Adapter
- Fluke Connect Mobile app



Part No.	Temperature (°F)	Price
FLKT3000FC	-328 to 2500	\$399.98



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)



Part No.	Comments	Price
FLUKE52-2	Dual Input	\$844.58
FLUKE54-2B	Dual Input, Log, IR, Noise Rejection	\$1,071.18



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°
- Includes: Case w/hanger, (2) ATB1 thermocouples, (2) Velcro straps



Part No.	Accuracy	Temperature (°F)	Price
ST4	$\pm(0.5\% \text{ rdg} + 2^\circ\text{F})$, 1100°F to 2000°F	-58 to 400	\$216.00



SH66A

MULTIZONE

For applications where multiple temperature measurements need to be taken simultaneously.

- Minimum/maximum memory
- Auto shut-off
- Sealed keypad

- Includes 1075 general purpose and 4010 aluminum surface probe
- 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.	Description	Price
SH66A*	3 Zone	\$642.20

*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

TEMPERATURE TESTER



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.	Description	Price
SRH77A*	3 Temperature Zones	\$912.24



05630004

HYDRONIC HEATING SYSTEM SMART PROBE KIT

- Measures manifold gas pressure, pressure drop, air flow, (with optional pitot tube), pipe and radiator temperatures
 - Perform timed pressure leak-down tests on pipe systems
 - Measures temperature of pipes in heating and cooling systems with accurate and stable NTC temperature sensor
 - Photograph objects with smart device, capturing measurement marker and temperature values for reference and reporting (805i)
 - Includes: Clamp Thermometer 115i, Differential Pressure Manometer 510i w/ hose set (diameter 0.15 in and 0.2 in) with adapter, Infrared Thermometer 805i, testo Smart Case (heating), batteries, and certificate of calibration
- The instruments can be used simultaneously and read through your smart device using the testo Smart Probes App. The App allows you to remotely read measurements from up to 6 Smart Probes and easily document/report the results.



Part No.	Description	Price
05630004	Hydronic Heating System Smart Probe Kit, Bluetooth	\$650.00



905i

SMART AND WIRELESS THERMOMETER PROBE

- Quickly and accurately measures air temperature in rooms, ducts, registers, and outlets
 - Fast acting temperature probe quickly tracks changes and shows trends on a graphic display
 - Measurement data is transmitted to the convenient and powerful testo Smart Probes App in your smart device
 - Includes: testo 905i, Bluetooth thermometer with App, 3 AAA batteries and certificate of calibration
 - Measuring range -58 to 302°F
 - Accuracy $\pm 1.8^\circ\text{F}$
 - 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.	Description	Price
905i	Thermometer Probe, Bluetooth	\$198.00



9056

POCKET

A surface thermometer of professional quality at a reasonable price. The spring loaded thermocouple measuring head guarantees a very quick reaction time and a high accuracy level by placing the probe flat on the uneven surface of the object being measured. Includes multi-function clip, battery

- Auto OFF function
- Swivel head making display always easy to read from any angle
- Professional industrial sensor (thermocouple Type K)
- Temperature range: -58 to +662°F (max 932°F short term)
- Resolution: 1.8°F



Part No.	Temperature (°F)	Description	Price
9056	-58 to 662; (max 932 short term)	Pocket K Thermocouple Thermometer	\$278.00



ATH4

DUAL TEMPERATURE

Two k-type thermocouple inputs. Display T1, T2, or T1-T2.

- Field calibration for $\pm 1^\circ\text{F}$ accuracy
- Displays °F directly at 0.1°F resolution on DMM with 0.1mVDC resolution
- Select °F or °C
- Converts from -50°F to 1800°F (optional thermocouple required)
- Includes two wrap tab thermocouples plus velcro straps
- Thermocouples insulated to 400°F
- Auto-off can be disabled for data logging
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
ATH4	Dual Temperature Head	\$177.42

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



40051

CORDLESS PIPE CLAMP

Cordless pipe clamp temperature instrument with 2.5' retractable general purpose probe.

- Single-handed use
- Spring-loaded to ensure repeatability

- Auto Shut-off after 5 minutes of non-use
- Mode Button: Hold, Max & Min
- Response Time:
Puncture Probe: 20 Seconds in 32°F Bath (95% of final reading)
Pipe Clamp Probe: 90 Seconds on 140°F Pipe (95% of final reading)



Part No.	Description	Price
40051	Cordless Pipe Clamp Sensor	\$301.90



RPT61

DIGITAL PRESSURE/TEMPERATURE CHART

For instant information, the P/T chartmaster eliminates the need for traditional pressure/temperature chart. Provides temperature and pressure correlation for 61 different refrigerants

- Choose pressure in PSI, BAR, or Mpa
- Choose temperature in °F or °C
- Auto off after 5 minutes
- 3V battery (CR2032) included
- Soft carrying case
- 1 year warranty



Part No.	Description	Price
RPT61	PT Chart Master	\$150.00

TEMPERATURE TESTER ACCESSORIES**YJACK™ SERIES WIRELESS SENSORS**

The YJACK™ Series is a network of devices that form a new platform offering a total HV AC/R diagnostics solution. Multiple devices can measure system and environmental parameters. When coupled with the P51 TITAN® digital manifold, the user has the necessary information for complete system diagnostics. Each device utilizes Low Energy Bluetooth® (BLE) technology to interconnect with each other and any smart device: Android and iOS. All YJACK™ Series devices can also communicate directly with the P51-870 TITAN® Series Digital Manifold simultaneously. The YJACK VIEW™ App provides ease of access to all information measured by the YJACK™ Series of devices.



67060

YJACK PATH™ RANGE EXTENDER

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

- Connects and re-broadcasts up to (6) YJACK™ devices and (2) P51-870 TITAN® devices at one time
- Adds additional 400 ft line of sight signal range to all YJACK™ and P51-870 TITAN® devices
- Amplifies signal strength through difficult to penetrate barriers
- Use to circumvent obstructions to your Bluetooth® signal
- Create perimeter with multiple YJACK PATH™ devices for a network of connected devices
- Utilize multiple YJACK PATH™ devices to drastically increase line of sight range
- Compatible with YJACK DEW™, YJACK™ Temperature Clamp, YJACK™ Temperature Strap, and all P51-870 TITAN® devices (requires firmware version v2.0 or later)
- Compatible with the YJACK VIEW™ App
- Simple to operate, one push button start-up
- Operating Temperature: -0.4°F to 131°F
- 75 hour continuous duty battery life (2 x AAA included)
- IP52 rated
- 2-year warranty



Part No.	Description	Temperature (°F)	Price
67060	YJACK™ path range extender	-0.4 to 131	\$200.30

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TEMPERATURE TESTER ACCESSORIES



YJACK™ TEMPERATURE STRAP

Easily measure temperature for pipes up to 6" diameter

- Wireless measurement for surface temperature of pipes up to 6" diameter
- Elastic strap creates secure connection and prevents loosening under vibration
- Easy to use quick-release latch for rapid connection and disconnection from system
- Flexible cable connection for easy access in small and difficult to reach areas
- Rotating mounting magnet for optimal Bluetooth® transmitter placement
- Bluetooth® 4.2 compliant low energy radio
- 400 ft line of sight signal range*
- Compatible with YJACK VIEW™ App and P51-870 TITAN® devices (firmware version v2.0 or later)
- Rapid Response Time: 30 seconds to 90% of differential TYP**
- Temperature Measurement Range: -40°F to 176°F
- Temperature Measurement Accuracy: +/-1.5 °C TYP**
- Operating Temperature: -0.4°F to 131°F
- Long 1200 hour battery life (2x AAA included)



Part No.	Description	Temperature (°F)	Price
67062	YJACK™ temperature strap	-40 to 176	\$258.50



YJACK™ TEMPERATURE CLAMP KIT

Includes (2) YJACK™ Temperature Clamps, (1) YJACK PATH™

YJACK™ Temperature Clamp

- Wireless measurements for surface temperature of pipes up to 1.25" diameter
 - Temperature clamp provides strong, secure connection to system
 - Flexible cable connection for easy access in small and difficult to reach areas
 - Rotating mounting magnet for optimal Bluetooth® transmitter placement
 - Bluetooth® 4.2 compliant low energy radio
 - 400 ft line of sight signal range
 - Compatible with YJACK VIEW™ App and P51-870 TITAN® devices (firmware version v2.0 or later)
 - Rapid Response Time: 10 seconds to 90% of differential TYP**
- #### YJACK PATH™
- 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 (firmware version v2.0 or later)



Part No.	Description	Price
67070	YJACK™ Temperature Clamp Kit: (2) YJACK™ Temperature Clamps, (1) YJACK PATH	\$646.50



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



Part No.	Description	Price
80TK	Thermocouple Module	\$319.98



80PK1

PROBE

- Type K thermocouple probe
- Use directly with F51, F52
- Use with 20, 70, 80 Series DMM with 80TK adapter
- Use with 16, 179, 180 Series with 80AK adapter

FLUKE

Part No.	Description	Temperature (°F)	Price
80PK1	Bead Probe	-40 to 500	\$83.96
80PK3	Surface Probe	32 to 500	\$339.98
80PK-11	Velcro Probe	-22 to 221	\$105.98
80PK-22	Immersion Probe, Liquids and Gels	-320 to 1994	\$229.98
80PK24	Air Probe Except Halides, Sulfide	-40 to 1500	\$269.98



80BKA

INTEGRATED DMM PROBE

- Type-K thermocouple with standard shrouded banana jack
- Convenient one piece construction
- Compatible with DMMs with temperature measurement functions: 116, 87/89 IV, 87V, 187/189, 287/289, 902, 1597

FLUKE

Part No.	Description	Temperature (°F)	Price
80BKA	Integrated DMM Temperature Probe	-40 to 260	\$99.98



TC48

LARGE PIPE CLAMP THERMOCOUPLE

Fieldpiece patented Rapid Rail™ Sensor Technology gives you the fastest and most accurate pipe temps on the market. Our Rapid Rail advantage stabilizes in seconds and blocks out ambient air temps so you see true pipe temps instantly. Clamp it on and go with hands free measurements. Make system adjustments and see pipe temperature readings react in an instant. Throw away the straps and tape for those large pipes. Clamp on to large pipes with the compact, rugged, and versatile TC48 Pipe Clamp. Match with any measuring device with a Type K thermocouple port.

- Widest pipe clamp range available (3/4" – 4 1/8")
- Temperature: -50 to 257°F
- Accuracy: ±4°F thermocouple, only ±1°F after field calibration
- Response time: 3 seconds (stabilization)
- Extremely rugged composite material
- Compact design for easy storage
- Comfortable ergonomic grips
- Fast set up and reaction time
- Single hand operation
- Water resistant
- Instant readings with patented Rapid Rail Technology



Part No.	Description	Cable Length	Price
TC48 ¹	Large pipe clamp thermocouple, 3/4" to 4-1/8"	6 Ft	\$198.00
JL3LC	Job Link® System Premium Large Pipe Clamp, wireless, 3/4" to 4-1/8"	Wireless 350' range	\$292.00

¹Sensor type: K Thermocouple**THE ONLINE RESOURCE CENTER****uri.com**

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ATB1

K-TYPE THERMOCOUPLE

Use with any meter using the K-type design. Wrap the lead wire around the tab for convenient lead storage.



Part No.	Description	Temperature (°F)	Price
ATB1	Bead Type Standard	to 400	\$34.00



80PK8

PROBE, PIPE CLAMP

- Type K thermocouple probe

FLUKE

Part No.	Description	Temperature (°F)	Price
80PK8	Pipe Clamp Probe to 1 3/8"	-20 to 300	\$389.98

INSTRUMENTS

TEMPERATURE TESTER ACCESSORIES



TC24

PROBE, PIPE CLAMP

- K-type, pipe clamp thermocouple.
- Accuracy: $\pm 4^{\circ}\text{F}$; $\pm 1^{\circ}\text{F}$ after field calibration, 32 to 176°F



Part No.	Description	Temperature ($^{\circ}\text{F}$)	Price
TC24	Pipe Clamp, 3/8" to 1 3/8"	Up to 257	\$150.00



4005MK

PROBE, PIPE CLAMP

Thermocouple attachment for instruments accepting K type probes.

- Response time: 2 seconds
- Cord length/material: 10' / 3.1 m TPE straight cord



Part No.	Temperature ($^{\circ}\text{F}$)	Response Time	Price
4005MK	-20 to 300	2 seconds	\$290.52



5028C

HUMIDITY PROBE

- Replacement probe for SRH77A
- Temperature range: 0° to 150°F
- Maximum tip temperature: 150°F



Part No.	Description	Temperature ($^{\circ}\text{F}$)	Price
5028C*	Humidity Probe	0 to 150	\$310.02



1075

THERMISTOR PROBE

- Use with Cooper temperature instruments



Part No.	Description	Temp. ($^{\circ}\text{F}$)	Response Time	Price
1075*	Puncture Probe	-100 to 300	6 Seconds	\$101.86
1052*	Needle Probe	-100 to 300	4 seconds	\$238.92
2010	Air Probe	-100 to 200	20 Seconds	\$77.10
3010*	Plastic Shaft, Aluminum Tip	-100 to 200	15 Seconds	\$117.36
4040*	Fast Contact Probe	-100 to 300	15 Seconds	\$204.14
4005	Pipe Clamp	-20 to 300	12 Seconds	\$265.24
4011	Pipe Strap Probe for SH66A, SRH77A	-25 to 212	—	\$115.98
9339	Pouch for 4005			\$91.52



ATT62

STANDARD TEMPERATURE PROBE

Thermistor type temperature probe for DT40 tester.



Part No.	Use with	Price
ATT62	DT40	\$65.90



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	Price
80CJM	Plug Adapter—J Thermocouple Wire	\$67.98
80CKM	Plug Adapter—K Thermocouple Wire	\$69.98
80AKA	Adapter—K Thermocouple to Banana Plug	\$69.98

TEMPERATURE HUMIDITY ANALYZER



THP2

PEN

- Simultaneous display of temperature & humidity
- $^{\circ}\text{F}/^{\circ}\text{C}$ switchable
- Hold switch
- Memory (Min/Max)
- Battery: One bottom cell (included)



Part No.	Description	Price
THP2	Thermohygrometer Pen	\$56.64



DSP1000

HAND HELD

- Wet bulb, dry bulb, dewpoint temperature
- $^{\circ}\text{F}/^{\circ}\text{C}$ switchable
- Memory (Max Hold)
- Data hold
- Battery: 9V (included)



Part No.	Description	Price
DSP1000	Digital Psychrometer	\$206.50



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)

FLUKE

Part No.	Temperature (°F)	Humidity (% RH)	Price
FLUKE971	-4 to 140	5 to 95	\$769.98



PRH2

DIGITAL POCKET PSYCHROMETER

Wet bulb, dry bulb, dew point, and %RH are shown on the backlight, dual display, and measurements can be taken either in the duct, or while walking around. Helps calculate target superheat.

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

Specifications

- Probe size: 2" long, 0.38" diameter
- Temperature range: -4 to 140°F, 0.1°F resolution, $\pm 2\%$ accuracy
- Relative Humidity: 15-90%, 1.0% RH resolution, $\pm 3\%$ accuracy in 30-80% RH range, $\pm 5\%$ accuracy <30% RH, >80% RH
- Battery: 1 AA battery, included
- Auto off: 10 minutes

Fieldpiece

Part No.	Description	Price
PRH2	Digital Pocket Psychrometer	\$172.00



127012

SLING PSYCHROMETER

Accurately determines percent relative humidity without the necessity of consulting complex tables. There is no need to wet the wick each time a reading is taken; the sling psychrometer contains a slide rule calculator which correlates wet

and dry bulb thermometer indications for direct reading of relative humidity.

BACHARACH
The Measurable Difference

Part No.	Description	Price
127012	Psychrometer, 25 to 120°F, Spirit Filled	\$198.00
120011	Wicks, 4	\$64.62
120266	Replacement Spirit Thermometer	\$94.62

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TEMPERATURE HUMIDITY ANALYZER



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
- Includes: Testo 605i, Bluetooth thermo-hygrometer with App, 3 AAA batteries and certificate of calibration
- 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.	Description	Price
605i	Thermo-hygrometer, Bluetooth	\$258.00



THERMOHYGROMETER

The humidity measurement stick you can bend. Small, compact and accurate. The sensor remains stable in the long term guaranteeing accurate results even after years of use. Includes duct holder, multi-function clip and battery

- Psychrometric wet bulb temperature
- Humidity sensor not damaged by water saturation
- Sensor protected by rotatable protection cap, measurement stick is 4.92 in. long
- With patented flexible joint swivel head
- Auto OFF function



Part No.	Description	Price
6054	Digital Stick Thermohygrometer	\$270.00

THERMOMETER



DIGITAL

1 year limited warranty.



Part No.	Description	Temperature (°F)	Humidity (% RH)	Price
DTH880	Room Thermohygrometer	32 to 122	25 to 95	\$120.90



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)	Price
DPT1	-40 to 392	\$32.74



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)	Description	Price
PT100	-40 to 200	Digital Pocket Thermometer	\$149.84



POCKET KNIFE STYLE THERMOMETER

The SPK1 Pocket Knife Style Thermometer features a sharp tip for punching through fl x 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	Price
SPK1	Folding Pocket Knife Style Thermometer	\$64.00



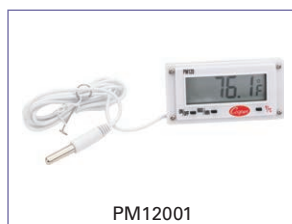
TRH15808

THERMOHYGROMETER, OVAL

Can be used for wall or desk applications



Part No.	Temperature (°F)	Humidity (% RH)	Price
TRH15808	-58 to 158	25 to 90	\$108.52



PM12001

DIGITAL REMOTE PANEL**PM12001:**

- 2.625" x 1.375" x 1" deep white polystyrene
- AA battery included

SP120:

- Operates without any batteries
- Battery backup
- Dimensions: 2.68" x 2.77" x .68"



Part No.	Temperature (°F)	Description	Price
PM12001	-40 to 120	Digital Panel Meter	\$57.56
SP120	-58 to 158	Solar Powered Meter	\$73.42



20DTF

LED

LED retrofit thermometer 120V include 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: -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.)	Price
20DTF*	Lexan	Front Flange	3/8	\$116.92

SOLAR POWERED

These self powered thermometers operate without any batteries. Each thermometer has adjustable calibration, a ten second update time and wide ambient temperature specifications for both indoor and outdoor installations.

- Energy saving device
- NSF approved
- Sensor length: 5'
- Humidity: Up to 100% (80% for SDFS20)
- EMI protection: To 15 volts per meter, vertical and horizontal from 2 MHZ to 1 GHZ



SDFS20

- Ranges: -58°F to 158°F
- 25160SD includes AAA backup battery



Part No.	Case Type	Mounting Code	LCD Display Size (In.)	Price
SDFS20	Stainless Steel	Front Flange	3/8	\$88.36
25160SD	Lexan	Horizontal Wall	3/8	\$64.88



20SDHL

STAINLESS STEEL

- Ranges: -40°F to 160°F (20SDHL)
- Resolution: 0.1°F
- Ambient temperature range: -35°F to 160°F



Part No.	Case Type	Mounting Code	LCD Display Size (In.)	Price
20SDHL*	Stainless Steel	Hanging	3/8	\$72.76



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 temp. range: -35°F to 160°F



Part No.	Case Type	Mounting Code	LCD Display Size (In.)	Price
72SDF160*	ABS	Front Flange	1/2	\$61.24
72SDU160*	ABS	U-Clamp	1/2	\$64.62

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

INSTRUMENTS

THERMOMETER



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)	Price
224503	6	- 40 to 160	\$42.02
222503	4	- 40 to 160	\$41.22

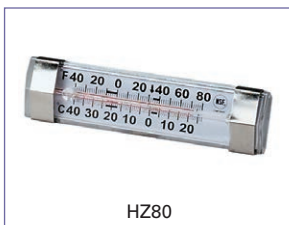


FOOD SAFETY

- 2" dial
- Stainless steel
- NSF Listed



Part No.	Description	Temperature (°F)	Price
25HBM	Refrigerator/Freezer Thermometer	-20 to 80	\$11.54



GLASS REFRIGERATOR, HORIZONTAL

- Range in °F and °C



Part No.	Description	Temperature (°F)	Price
HZ80	Horizontal	-40 to 80	\$10.96



GLASS REFRIGERATOR, VERTICAL

- Range in °F and °C



Part No.	Description	Temperature (°F)	Price
HB120	Vertical	-40 to 120	\$4.52



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	Price
24DT-L4F1*	110	1 Minute	\$127.70



INDOOR/OUTDOOR WALL

- Instrument range: -40°F to 120°F
- Non toxic spirit filled glass tub
- 7.5" long



Part No.	Description	Temperature (°F)	Price
10-268-02-8	Thermometer, White on Blue	-40 to 120	\$15.56



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.)	Price
DVU35*	High impact ABS	3/8	\$90.92
DVBM25*	High impact ABS	3/8	\$121.38



9VU35-120

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)	Price
9VU35-110*	3 1/2	9	-40 to 110	\$80.00
9VU35-120*	3 1/2	9	0 to 120	\$80.00
9VU35-180*	3 1/2	9	30 to 180	\$80.00
9VU35-240*	3 1/2	9	30 to 240	\$80.00
9VU6-120*	6	9	0 to 120	\$95.38

REMOTE DIAL VAPOR THERMOMETER



6020BB

BACK FLANGE/BACK CONNECTION

- Range in °F and °C



Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length	Price
6020BB*	2	-40 to 60	4'	\$72.96



45BB060

BACK FLANGE/BACK CONNECTION

- Range in °F and °C



Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length	Price
45BB060*	4 1/2	-40 to 60	4'	\$143.84
45BB260*	4 1/2	-40 to 60	20'	\$200.00



6025FB

FRONT FLANGE, BACK CONNECTION

- Range in °F and °C



Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length	Price
6020FB*	2	-40 to 60	4'	\$55.94
6025FB*	2 1/2	-40 to 60	4'	\$60.82



20FB260



Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length	Price
20FB240*	2	40 to 240	4'	\$57.84
20FB260*	2	-40 to 60	20'	\$114.92
25FB110*	2 1/2	-40 to 110	4'	\$57.84
25FB240*	2 1/2	-40 to 240	4'	\$60.16
45RB060*	4 1/2	-40 to 60	5'	\$122.76
45RB260*	4 1/2	-40 to 60	20'	\$178.76

HANGING BRACKET, BOTTOM CONNECTION

- Range in °F and °C



6020HL



Part No.	Dial Size (In.)	Temperature (°F)	Capillary Length	Price
6020HL*	2	-40 to 60	4'	\$50.32
6025HL*	2 1/2	-40 to 60	4'	\$60.82

MOTOR TESTER



ECMPRO

UNIVERSAL ECM MOTOR TESTER

- Easy to Use: Gives a "Go/No Go" Result
- No batteries required
- The back of the unit is magnetic for job-site convenience
- 24 Vac indicating light
- Short circuit protection



Part No.	Wire Length (In.)	Voltage	Price
ECMPRO	24	24 Vac	\$119.84

*WARNING: This item may 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



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
- Optional 100' sensor wire extension
- Temperature scale selectable:
CR87B- (Fahrenheit) -40°F to +30°F, -20°F to +50°F, +50°F to +120°F
CR87BC- (Celsius) -40°C to 0°C, -30°C to +10°C, +10°C to +50°C
- Temperature accuracy: $\pm 1^\circ\text{C}$ or $\pm 2^\circ\text{F}$



Part No.	Temperature Reading	Price
CR87B	Fahrenheit	\$863.34
CR87BC	Celsius	\$963.34



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	Price
CR87-8	7 Day	-20 to 50	\$58.34
CR87-9	7 Day	50 to 120	\$58.34



CRPEN

REPLACEMENT PEN



Part No.	Color	Use with	Price
CRPEN	Black	Chart recorders CR86, CR87, CR4, SR Series	\$28.34



DVTH

LOGGER WITH DISPLAY

Records and displays real time temperature, humidity and dew point. Displays logging summary, sample rate, memory used and memory left. Shows measurement trends graphically.

Visual over and under alarm indicator for temperature and humidity. Dew point alarms are not available. User single setpoint offset calibration is available through software for both temperature and humidity.

- Storage temperature: -5 to 160°F
- Time accuracy: $\pm 100\text{ppm}$ 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)	Description	Price
DVTH	0 to 99 Non-Condensing	Temperature humidity logger with display	\$496.66



SL300T

DATA LOGGER

The SL Series Data Loggers provide concise measurements for critical environmental conditions. SL300TH measures temperature, humidity and dew point simultaneously. SL300T measures temperature only.

Features/Benefit

- 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.	Description	Price
SL300T	Mini Data Logger, Temperature Only	\$150.00
SL300TH	Mini Data Logger, Temp, Humidity, Dewpoint	\$233.16



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
- User selectable recording start
- 20 month battery life (at 1 minute sample rate)
- One PC software operates with all loggers



Part No.	Senses	Price
LT2	Temperature	\$275.00
LTT	Dual Temperature	\$440.00
LPT	Pressure and/or Temperature	\$566.66
LCV	Current and/or Voltage	\$430.00
Description		
LLSU	Data Logger Software, USB Cable	\$199.84

BORESCOPE



ET20

WIFI BORESCOPE

- WiFi Borescope transmits and displays video and images directly to your smartphone up to 30 Feet (9 m) away
- Waterproof 9 mm camera has 6 on-board, adjustable LED lights and outputs high-quality 640 x 480 images

- Tough, armored 6-Foot (1.8 m) long waterproof camera gooseneck maneuvers around obstacles while maintaining rigidity
- Battery status indicator tracks the charge level of the lithium-ion battery
- Increase and decrease camera LED output either on the Borescope or in the App
- The App not only acts as a display, but stores and shares images and videos via text or email
- Includes convenient pocket clip, USB charging cable, hook attachment, carrying case, and instructions
- The Klein Borescope App is available free at the App Store® for iPhone® users and Google Play® for Android® users



Part No.	Description	Price
ET20	WiFi Borescope with USB Charging Cable, Hook Attachment, and carrying case	\$200.08

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-but-

tons for easy-to-use one-handed measurements.

- 131 ft. working range
- One-touch controls
- 2-line illuminated display
- Ultra-portable
- 1-meter drop tested
- IP54 dust and water resistant
- 3-year warranty



Part No.	Range	Accuracy	Measuring Tolerance	Price
FLUKE417D	0.2-40 m/0.6-131 ft	± 2 mm up to 10 m	2.0 mm ± 1.5 mm/± 0.06 in	\$229.98

TEMPERATURE ALARM

TEMPERATURE ALARM

Wall mount, flush, temperature alarm, both audible and visual with adjustable high/low setpoints.

- Membrane touch-pad programming
- Flashing visual alarm
- Automatic alarm reset
- Fits 2 x 4" junction box
- 24Vac



Part No.	Description	Price
TAI-2000D-24	Temperature Alarm	\$293.34



TA22

DIGITAL, TA33

- Temperature Range: -40°F to 160°F
- Audible and visual alarm
- Programmable alarm delay
- Programmable setting for "Alarm on OVER" or "Alarm on UNDER"
- °F and °C selectable
- Relay contacts
- AC adapter included



Part No.	Description	Price
TA22	Digital Display Temperature Alar	\$266.50
TA33	Temperature Alarm with Display and Battery Backup	\$363.16

TEMPERATURE ALARM



TA6

DUAL SET POINT

A single sensor temperature alarm which features two dial controls that allow the user to determine the over and under alarm set points from -10°F to +80°F. Slide switch can be set for a one hour delay before alarm activation or for immediate alarm activation. Screw type

connectors are provided for connection to a remote alarm system or an automatic phone dialing unit. Probe wire can be extended up to 200 feet using any standard 22 gauge speaker wire.

- Voltage: 120 Vac



Part No.	Description	Price
TA6	Dual Set Point Alarm	\$266.50



TA7

BATTERY POWER

An inexpensive temperature alarm for refrigerators and freezers.

- Adjustable alarm temperature setting from -10°F to +80°F
- Uses standard 9V battery (not included)

- Slide switch for immediate alarm response or 1 hour delay
- Loud audible alarm
- Automatic beeper warns when battery is weak
- Sensor wire can be extended up to 100 feet using standard 20-28 AWG speaker wire



Part No.	Description	Price
TA7	Battery Operated Alarm	\$86.50



TAP4

MULTIZONE

Set alarms for 4 separate temperature applications.

- -40 to 60°F; 0 to 100°F, 120V
- Encapsulated thermistor, 15' lead included (300' max)
- 5 amp maximum dry contact sensor rating

- Battery backup
- NEMA3 case



Part No.	Description	Price
TAP4	Temperature Alarm, 4 Inputs	\$633.16

WATER ALARM



CHW3610W1001

THE LYRIC™ WATER LEAK AND FREEZE DETECTOR

Detects water with sensors on base of unit or has expanded coverage with included 4 ft. water sensing cable. Entire cable detects water.

- Conveniently place near sinks, washers, water heaters, sump pumps—anywhere leaks could happen. Battery life lasts up to 3 years without incident.
- Notification messages can alert you or your family/ friends, wherever you are, while audible (100 dB alarm) alerts sound when you are at home.
- Use to detect temperatures that can freeze pipes, and humidity that could damage valuables.
- Runs on WiFi - No Extra Hub or hardware purchase required.
- Daisy chain extra cable sensors and cover up to 500 feet of space with one leak detector.
- Reusable even after detecting an incident. After an alarm, simply wipe dry the detector and cable sensors and place them back into service.
- Dimensions: 7" H x 7" W x 2 1/2" H
- Includes 3 AAA batteries

Honeywell Home

Part No.	Description	Price
CHW3610W1001	Water Leak Detector and Cable Sensor	\$174.34
CHWES41013	Cable Sensor for CHW3610W1001, 4 Ft. Long	\$41.84



WD10

WET DETECT SWITCH

- 24 VAC Solid State
- 5.9' Long Cable w/ extra wet pad
- Audible Alarm
- 1 N.O. & 1 N.C. set of contacts
- Manual Reset
- Power LED Indicator
- Moisture LED Indicator

- Alarm LED Indicator
- ETL Listed



Part No.	Description	Contact Rating (Amps)	Price
WD10*	Wet Detect Switch	1	\$81.10

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



SOS-1

SAFETY OVERFLOW SWITCH

The SOS switch is a solid state device designed to detect a clogged condition in condensate drain lines. It works by sensing when the water is near the top of the pipe that it is clamped onto and responds by opening the circuit to the compressor contactor.

Since there are no moving parts in the switch, slime and sludge buildup do not affect operation until a blockage occurs. The switch is triggered by a near full condition of the drain pipe and is not affected by condensation or water droplets inside of the pipe. Unlike other types of level or safety switches, the SOS does not require cutting or penetration into the pipe and does not interfere with normal fluid flow in any way.

- For use with 24 VAC control circuits
- Pipe must be 80% or more full at the SOS location for a tripped condition to occur.



Part No.	Description	Price
SOS-1*	Safety Overflow switch	\$43.90



WS1

WET SWITCH

A solid state control designed to help prevent flooding, damage to carpets, walls, furniture, ceilings, etc. Turns system off when detecting moisture due to condensate or drain leaks. As few as one or two drops will cause a wet switch to turn off a unit. Easily reset.

- LED activation indicator
- Contact rating: 2A



Part No.	Description	Contact Rating (Amps)	Price
WS1*	Flood Detector	2	\$101.66

DOOR ALARM

DAC55

REFRIGERATOR/FREEZER DOOR ALARM

- Provides visual and audible alarm with remote notification capability when the door is ajar
- Field adjustable freezer door alarm / door monitor settings

- Panic alarm / entrapment alarm (when optional IP-1 Pushbutton is used)
- Automatic control of interior compartment lights
- Automatic control of refrigeration (evaporator fans and solenoid valve) in a variety of user selectable configurations relative to the status of the door
- For walk-in freezers, walk-in coolers, temperature or environmentally sensitive compartments and secure areas
- ETL listed
- Door ajar alarm time delay: 2-60 minutes
- Refrigeration shutoff pre-delay: 1-120 seconds
- Dimensions:
 - Surface: 8" L x 6" W x 1.8" D
 - Flush: 9.375" L x 4.75" W x 1.8" D
- Power: 120 VAC 80 ma, surge protected (other operating voltages available)



Part No.	Description	Price
DAC55	Refrigerator/Freezer Door Alarm (Includes MC1S)	\$845.54
MC1S	Surface Mount Door Sensor for DAC55	\$14.62

CHARGING SCALE

WEYTEK220

NRP

- Highest capacity and accuracy available at 220 lb. ± 0.25 oz
- Plastic carrying case included
- Displays in pounds/ounces, kilograms/grams and decimal pounds
- 2 year replacement warranty



Part No.	Description	Price
WEYTEK220	Digital Charging Scale	\$445.86

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

CHARGING SCALE



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
 - 2 year replacement warranty
- The optional handpiece (719715G1) features a large, full color display that is easy to read, even in direct sunlight. Can be used in lieu of a smart phone via bluetooth transmission.



Part No.	Description	Price
WEYTEKHD	Digital Charging Scale, Wireless	\$500.00
719715G1	Optional Handpiece for WEYTEKHD	\$309.00



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	Price
DS20000*	Platform Size 12 1/4"	Digital Scale, 220 Lb. Max.	\$441.20



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.	Description	Price
SRS3	Wireless Refrigerant Scale, 252 Lbs Max	\$724.00



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)

Additional features for CC220EW (when paired to a mobile device running the CPS link app)

- Job Data – Work order, invoice number, customer, and data logs
- Customer Data – Name, address, e-mail, phone, notes
- Test Logs – Measurements/results associated with services performed
- Export – E-mail specific files to customers, your head office others
- Tank Inventory – Keep real-time records of supply & recovery tanks, their weights and refrigerant types
- Refrigerant Usage – Automatically geotags job location, time and amount dispensed or recovered
- Record-Keeping – Easily maintain refrigerant usage/disposal records to comply with EPA Clean Air Act



Part No.	Description	Price
CC220	Non-Programmable, 60 Hrs of Continuous Operation on Batteries	\$480.00
CC800A	Programmable, 30 Hrs of Continuous Operation on Batteries	\$965.62
CC220EW	May operate as wireless scale by pairing it to a mobile device. Manual or programmable mode	\$530.42

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

**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
- Accuracy: ± 0.5 oz./ ± 0.03 lb./ ± 0.015 kg (or 0.1% of reading), whichever is greater
- Unit weight: 9 lbs. (4.1 kg)
- Size: 15.5" L x 12.25" W x 3.25" H
- Keypad: moisture resistant membrane keypad with tactile metal domes
- Operating temp: 32°F to 122°F (0° to 50°)

Programmable Models and Attachments

- Use with all refrigerants including R410A. Has a larger case
- Hold/resume mode for switching supply tanks in mid-charge
- Automatic hold if refrigerant flow stops. Extends solenoid lif
- Schrader valve prevents backflow through solenoid
- Charge weight resolution: .1 oz./ .01 lb./ .01 kg
- Charge accuracy: scale accuracy ± 0.25 oz.
- Upgrade kit includes module, hose, A/C power pack, and larger case to hold scale and module



Part No.	Description	Price
68802*	Scale, 110 Lb. Max.	\$712.90
68803*	Programmable Scale, 110 Lb. Max.	\$1,143.90
68812*	Scale, 220 Lb. Max.	\$1,066.24
68813*	Programmable Scale, 220 Lb. Max.	\$1,464.14
68804*	Programmable Upgrade Kit for 68802, 68812	\$482.76
68806*	115V A/C Power Supply	\$72.00

**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	Price
DHS55	Digital Scale	\$66.64

ELECTRONIC LEAK DETECTOR**D-TEK® 3**

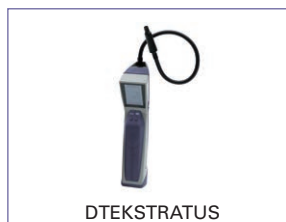
D-TEK 3 builds on the proven performance of D-TEK leak detectors with added features to help you get your job done faster. An easy-to-change sensor, quick charge lithium ion battery, and a new ergonomic design make D-TEK 3 a versatile tool for everyday RAC main-

tenance 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	Price
DTEK3	0.03 oz./y	D-TEK 3, Infrared sensor, Lithium ion battery, Spare filters, AC wall charger, Carrying case	\$1,086.00

**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
- Two year replacement warranty



Part No.	Description	Sensitivity	Price
DTEKSTRATUS	Infrared Absorption, with portable monitor	0.03	\$1,758.86

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

ELECTRONIC LEAK DETECTOR





D-TEK Stratus®

REFRIGERANT LEAK DETECTOR AND PORTABLE MONITOR

A NEW ERA OF LEAK DETECTION IS UPON US!

- Cloud Hunting and Pinpoint Modes in one unit
- Infrared Sensor (sensitive to 0.03 oz/yr)
- Detects all CFC's, HCFC's, HFC's and HFO's
- Lithium Battery
- Two year over the counter warranty
- Rugged carrying case included

MORE DETAILS PAGE 1289



TEKMATE

REFRIGERANT, ELECTRONIC

All detectors have a 2 year replacement warranty

716202G1

- Infrared sensor equalizes to CO2 in the air for minimal risk of false alarms and lasts for over 1,000 hours

- Rechargeable NiMH battery for 6.5 hours of operation

TEKMATE

- Proven heated diode sensor technology
- Runs on 2 "D" batteries for 16 hours of operation
- Suggested for residential A/C use

WHISPER

- Detects pressure or vacuum leaks regardless of gas type
- Runs on 2 "D" batteries for 160 hours of operation
- Heterodyne capability reduces ultrasonic frequencies to an audible range



Part No.	Description	Sensitivity	Price
716202G1	CO2 Detector, Infrared Absorption, Rechargeable NIMH Battery	6 g/a	\$1,280.00
TEKMATE	Refrigerant Leak Detector, Heated Diode Sensor, Alkaline Batteries	0.25	\$450.00
WHISPER	Ultrasonic Leak Detector	—	\$570.00



0330019

ACCESSORIES



Part No.	Description	Use with	Price
0330019	Power Adapter and Cord, 120V	Dtekselect, Compass	\$38.00
703020G1	Sensor Element	Tekmate, Dtek, Compass	\$93.00
703055P1	12V Lighter Plug	Dtek, Dtekselect, Compass	\$31.00
703059P1	Hard Storage Case	Dtek	\$64.00
705600G1	Tip-filter kit	Tekmate, Compass	\$33.00
706700G1	Sensor	Gasmate	\$93.00
712700G1	NIMH Power Stick	Dtekselect, Compass	\$93.00



LD5

REFRIGERANT, ELECTRONIC

- Unique color graphic LCD display
- Compatible with most commonly used refrigerants today including 1234-yf and R-134a
- Long life, stable sensor that will last up to 10 years.

- Automatic calibration and reset to ambient
- User friendly message and error screens
- High-intensity LED inspection light
- 3 adjustable sensitivity levels
- True mechanical pump
- Uses 4 AA batteries (included)
- Probe length: 17"
- 2-year warranty

ROBINAIR

Part No.	Description	Sensitivity	Price
LD5	Refrigerant Leak Detector, with color graphic LCD display	0.25	\$828.04



LS1

THE LEAK-SEEKER®

CPS® Products introduces a new generation of leak detectors featuring a revolutionary new E_MOS® detection technology.

Features:

- 500 hour nominal sensor life
- Sensor not contaminated by R404a
- More than 50 hours battery life (3 C batteries)
- Sensitivity remains constant over the life of the sensor
- Superior sensitivity to R410A and new HFO refrigerants
- Sensitivity to 35 parts per million (less than .1oz per year)
- Senses all refrigerants including those with hydrocarbon components
- Meets all US International standards for both automotive and commercial use

cps®

Part No.	Description	Price
LS1	Leak-Seeker® I, Manual Sensitivity Selection 1 Year Warranty	\$478.78
LS2	Leak-Seeker® II, Fully Automatic Sensitivity Selection, 2 Year Warranty	\$581.52
LS2XF	Replacement Sensor for LS1 and LS2	\$9.98



SRL2K7

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"
- Kit features rugged, hard case for added protection and organization
- Flex extension and rigid extension probes
- Slots for instruments, chargers, filters, O-rings, extension probes and manuals



Part No.	Description	Price
SRL2K7	Advanced Infrared Leak Detector Kit	\$984.00



H10PRO

UNIVERSAL REFRIGERANT LEAK DETECTOR

- Detects all halogen-based, non-flammable CFC, HFC and HCFC refrigerants including: R12, R22, R134a, R404a, R410a, R502, R507 and many others
- Utilizes a tried-and-true positive ion emission heated diode sensor and selectable sensitivity for the ultimate accuracy in pinpointing the leak source
- Ultra-sensitive detection as low as 0.006 oz/yr
- Dual power sources include rechargeable battery and external DC powered (wall adapter included for charging and continuous running)
- Features a visible LED leak rate indicator on the probe tip as well as an audible buzzer
- Visual sensor calibration system (with included reference leak bottle)
- Headphone port allows for optional headset use in high-noise environments
- Warm-up Time: Approximately 2 minutes
- Response Time: 1 second
- Probe Length: Flexible 4.5 ft. with built-in filter
- Battery Life: 3 hours (typical)



Part No.	Description	Sensitivity	Price
H10PRO	Ultra-sensitive universal refrigerant leak detector (8.3" x 10.5" x 5.4")	0.006 oz/y	\$1,150.00
30150486	Replacement Refrigerant Sensor for H10PRO		\$311.54
30155942	Rubber probe tip for H10PRO/H10PM/H10P		\$32.30

ELECTRONIC LEAK DETECTOR



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.	Description	Price
GASMATE	Combustible Gas Detector	\$496.00



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
- Sensitivity can be programmed to high, medium, low
- Audible alarm can be muted
- 17" flexible prob
- Blacklit LCD screen tilts upward for easy viewing at any angle



Part No.	Description	Price
LD5000*	Prowler Gas Leak Detector, With Case	\$719.96
LDRF5*	Replacement Filters for LD5000 (5 pack)	\$6.62
LDTV*	Leak Test Vial for LD5000	\$8.64
LDPK*	Parts Kit (Sensor, Filter Kit, Test Vial)	\$107.42
LDCS*	Carrying Case for LD5000	\$56.32



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.

- Pinpoint low-level leaks with display and alarm
- 1 ppm Minimum Detectable Level
- The LCD Display shows concentration in real time
- Very fast response and clearing times
- Can locate leaks in small and hard to reach areas
- Detect leaks that other instruments can't
- Cut leak inspection times
- Fast response time finds leaks quick!
- Infrared sensor unaffected by changes in temperature and humidity
- Real time ppm display quantifies leak to help easily find the source
- 60+ refrigerants accurately detected
- Halogen CO2, N2O and SF6 versions available
- Up to 12 hours of operation on full charge battery
- Includes battery pack, probe, charger and soft case with shoulder strap
- Two-year warranty



Part No.	Description	Price
PAGMIR	Portable Refrigerant Leak Detector for HFC, CFC, HCFC Gases (without internal purge-air bladder) Dimensions: 8" x 19" x 5"	\$8,210.00



RM134

REFRIGERANT, STATIONARY

Designed to monitor a single refrigerant in a single zone. Enables continuous sampling of ambient conditions, incorporating an alarm/control threshold that is adjustable between 100 and 1000 ppm in increments of 100 ppm. The unit features audible and visual alarm indication with remote mounting of the sensor module up to 200 feet using four conductor 18 gauge wire (not included).

- Concealed tamper resistant set points
- Continuous duty
- Audible and visual alarm indication
- Field replaceable sensor module
- Auxiliary relay for remote alarm
- Manual reset
- Accuracy: $\pm 3\%$ of the setting or ± 25 ppm, whichever is greater at a temperature range of 32 to 120°F and 40 to 90% relative humidity
- Audible alarm: 85 db at 1 foot
- Operating range, sensor module temperature: -20 to 150°F
- RMX12: replacement sensor

cps

Part No.	Description	Price
RM134	Stationary Leak Monitor for R134a	\$1,657.16

UV LEAK DETECTOR

405015

UV LEAK DETECTION KIT

Quickly find larger leaks with Nu-Calgon's powerful UV flashlight and fluorescence enhancing glasses kit. Designed for use with EasySeal Direct Inject-UV dye (405011 and 405012), and is ideal for use with Fluorescent Gas Leak Detector (418453, 418424, and 418408).

- High Intensity light finds UV leak in bright and low light
- 100 powerful UV LEDs
- 100,000 hour long-lasting LED technology
- 390-395nm UV wavelength
- Heavy-duty durable aluminum light
- Safety rated, fluorescence enhancing glasses include

Nu-Calgon

Part No.	Description	Price
405015	UV Leak Detection Kit, with UV flashlight and fluorescent enhancing glasses	\$68.18



SPEHVLBEZE

FLUORESCENT LEAK DETECTION KIT, BIGEZ™ COMPLETE

The BigEZ™ cartridge can treat 64 medium-sized AC&R systems or 32 large-sized systems. There's no pouring, no refrigerant, and no worrying about spills.

The BigEZ™ injector easily overcomes system pressure. Each cartridge is clearly labeled with dye dosage marks so that the correct amount of dye can be added every time.

Includes:

SPEHVLCS violet light, LED leak detection lamp, SPEBEZ4E 4 oz BigEZ™ fluorescent dye cartridge, BEZ50 BigEZ™ dye injector assembly, BEZ25 8" BigEZ™ hose assembly

SPECTROLINE®
HVAC/R

Part No.	Description	Price
SPEHVLBEZE	Fluorescent Leak Detection Kit, BigEZ™ Complete	\$622.00



SPEHVLBEZE

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.
- **SPEHVLBEZE includes:**
SPEHVLCS violet light LED leak detection lamp, (2)SPE-EZ5E 0.5 oz universal/POE dye cartridges, EZ50EZ-Ject™ dye injector assembly, EZ25 8"EZ-Ject™ hose assembly, 128186 R-410a adapter/purge fittin
- **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 fittin

SPECTROLINE®
HVAC/R

Part No.	Description	Price
SPEHVLBEZE	Fluorescent Leak Detection Kit, EZ-Ject™ Complete	\$387.00
SPEEZ100ECS	Fluorescent Dye Injection Kit, EZ-Ject™	\$216.00
SPEEZ5ECS	Fluorescent Dye Cartridge, EZ-Ject™, 0.5 oz universal/POE	\$32.36
RPEZ25	8" EZ-Ject™ hose assembly	\$93.94
RPEZ50	EZ-Ject™ dye injector assembly	\$129.46

UV LEAK DETECTOR



SPEHVLGSE

FLUORESCENT LEAK DETECTION KIT, GLO-STICK® COMPLETE

The GLO-STICK® Complete Fluorescent Leak Detection Kit contains convenient and mess-free, single-dose capsules. Add refrigerant and fluorescent dye in one simple step

This kit comes with 4 capsules for different sized AC&R units. Whatever maintenance situation you come across, this kit has a dye capsule that's perfect for the job.

SPEHVLGSE includes:

SPEHVLCS violet light LED leak detection lamp, (1) SPEGS1E0.5 oz universal/POEGLO-STICK® dye capsule, (2) SPEGS2E0.5 oz universal/POEGLO-STICK® dye capsules, (1) SPEGS3E0.5 oz universal/POEGLO-STICK® dye capsule, BV50 bleed valve for attaching GLO-STICK® capsule to service hose, EZ258" EZ-Ject™ hose assembly, 128186R-410a adapter/purge fitting, PC0249 purge capsule

SPECTROLINE®
HVAC/R

Part No.	Description	Price
SPEHVLGSE	Fluorescent Leak Detection Kit, GLO-STICK® Complete	\$387.00
SPEGS101ECS	0.03 oz universal/POE fluorescent dye capsule. Treats up to 15 oz of lubricant or 2.9 lbs of refrigerant or 1 ton of cooling	\$12.60
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	\$21.80
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	\$27.90
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	\$39.50



SPEBEZ400ECS

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	Price
SPEBEZ400ECS	BigEZ™ Dye Injection Kit, includes SPE-BEZ5E-4CS 4 oz cartridge	\$380.00
SPEBEZ5E4CS	BigEZ™ Fluorescent Dye Cartridge in Clamshell, 4 oz universal/POE	\$277.00



RPGA2

GLO-AWAY® PLUS FLUORESCENT DYE CLEANER

Specially formulated to remove fluorescent leak detection dye within seconds.

The cleaner removes all traces of dye from any surface area and helps the technician to finish repairs fast, without the hassle of spending time trying to remove dye.

Stronger formula makes it easier to remove the toughest dye stains.

SPECTROLINE®
HVAC/R

Part No.	Description	Price
RPGA2	2 Oz spray bottle	\$14.00



GS101LT

GLO-STICK®

- Use GS3 size on all split systems even if smaller than 10 lbs.
- Use with bleed valves to regulate flow
- ECS series can be used with POE, alkylbenzene and mineral oils, comes in clamshell case

SPECTROLINE®
HVAC/R

Part No.	System Capacity Refrigerant	Oil	System Capacity Oil	Price
GS101LT*	1 to 2.9 Lbs.	Alka Benzene	15 fl Oz	\$9.92



69789

UV LEAK KIT

- Light-concentrating reflectors surround each of five LEDs for intense illumination
- Blue bulbs for pinpointing leaks from greater distances
- 100,000+ hour LEDs

- Constant or momentary ON
 - Sealed to lock out moisture
 - Bulbs recessed for protection in the stainless steel head
 - Long life lithium battery included
 - All models are covered with a limited lifetime warranty
- Kit includes lamp, disposable dye injector tube for two 1/2-oz. applications, carrying pouch, and injector hose for AC/R.

YELLOW JACKET®

Part No.	Description	Price
69789*	Micro LED, Dye Kit for AC/R	\$355.26
69782*	Lamp Only, 5 UV Bulbs for 391-415nm wavelength, Waterproof	\$215.70
69721*	Universal Disposable UV Dye Injectors Only (2/pack)	\$103.64

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

COMBUSTION ANALYZER



A0X2

CO, O

Measures O, CO and temperature in flue gases

- Gas and oil fuel types
- °F/°C switchable
- Auto-off

- Initial accuracy:
±0.3% reading for gas detection
±0.6% + 3°F for temperature
- Includes pump, water trap, and high temperature thermocouple
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
A0X2	Carbon Dioxide, Oxygen, Temp Head	\$475.80



0564300283

HEAVY DUTY AND HIGH DEFINITION

- 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
- Supplied with Bluetooth printer and 12 in. flue gas probe with 5 ft. hose

Specification

- 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

Includes

- 1 - testo 300 Combustion Analyzer with O2 and CO sensors, 4000 ppm (0633300270)
- 1 - USB Power Supply
- 1 - 12 in. Flue Gas Probe with 5 ft. Hose (06009741)
- 1 - Bluetooth Printer (05540621)
- 6 - Rolls of Spare Thermal Paper (05540568)
- 10 - Spare Particle Filters (05540040)
- 1 - Case
- 1 - easyHeat PC Analysis Software (05543332)
- 1 - Calibration Certificate



Part No.	Description	Price
0564300283	Residential/commercial combustion analyzer kit with Smart-Touch technology, printer, O2 & CO sensors, 4000 ppm	\$3,398.00

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COMBUSTION ANALYZER



05633100

RESIDENTIAL COMBUSTION ANALYZER

- Rugged by design
- Bright backlit display
- 10 hour battery life
- Work all day with lithium rechargeable battery technology

- Condensate trap
- Start testing faster - in only 30 seconds.
- Quick exchange probe fi lte
- Powerful magnets
- O, CO (w/ NOx filters standard), C
- Draft and Pressure
- Temperature (flue and ambient
- Combustion efficiency and excess ai
- Undiluted CO (CO air free)
- Ambient CO

Includes: 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 05633110 also includes IR printer (05543100) and 2 rolls of thermal paper



Part No.	Description	Price
05633100	Testo 310 Combustion Analyzer Kit	\$1,450.00
05633110	Testo 310 Combustion Analyzer Kit with Printer	\$1,800.00

CARBON MONOXIDE TESTER



COCHECK

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)	Comments	Ship Wgt (Lbs.)	Price
CO CHECK	3% of reading, ± 1 ppm	1-999	Auto shut-off	1	\$540.00



SCM4

CARBON MONOXIDE DETECTOR

The SCM4 Carbon Monoxide Detector has an electrochemical sensor fast enough for walk-around tests.

- Field-replaceable CO sensor
- Advanced three-pin sensor measures 0 to 1000 ppm CO

- Calibrate to ambient quickly with ZERO button
- Audio and visual alarms (with MUTE function)
- Bright-blue backlit dual-display to test in dark crawl spaces
- Magnetic hanger for hands-free operation
- Alarm rate increases as carbon monoxide concentration increases
- MAX hold to help you zero in on the source
- Sensor Calibration: Factory calibrated 0 to 1000 ppm; 0 to 2000 ppm (less than 5 minute exposure time)
- Sensor Type: Electrochemical (specific to CO)
- Initial Accuracy:
 - 73°F±9°F, <75% R.H.
 - 0-15ppm ±5% reading ±1 ppm after zeroing
 - 16-35ppm ±5% reading ±2 ppm after zeroing
 - 36-1000ppm ±5% reading ±5ppm after zeroing
- 15 to 90% R.H., non-condensing
- Storage Environment: 32 to 68°F (0 to 20°C) at <80% R.H. with battery removed from meter.
- Battery: 9V.
- Battery Life: 150 hours typical alkaline.
- Auto Power Off: After 15 minutes.



Part No.	Range (ppm)	Price
SCM4	0 to 1000; 0 to 2000 (less than 5 minute exposure time)	\$590.00



CO1000

METER

Measures CO quickly and easily in working and living environments.

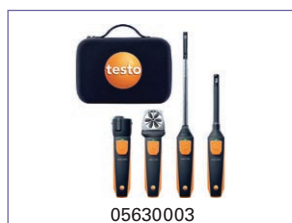
- Backlit LCD
- Automatic calibration
- Max hold and data hold
- Auto power off

- 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)	Price
CO1000	5% or ±10 ppm <100 ppm, 10% or ± 10 ppm > 100 ppm	0-1000	\$416.66

GAS/AIR FLOW TESTING



05630003

VAC SMART PROBE KIT

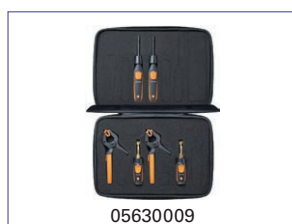
The testo VAC Smart Probe Set provides a combination of four Smart Probe instruments used with your Smart Device needed to test and balance a multi-outlet ventilation system. Two types of anemometers give you the capacity to measure in-duct air flow

and the flow from each vent. Using an IR temperature probe for surface temperatures will show you motor and electrical equipment conditions and an easy check of each outlet. The thermohygrometer will provide an assessment of the humidity and dewpoint concerns throughout the system.

- Measures air velocity, temperature, relative humidity, wet bulb / dew point, and calculate volume flow
- Kit includes instruments to measure, balance, troubleshoot, and optimize ventilation systems performance
- RH and air flow measurements in-duct and at registers viewed simultaneously in the testo Smart Probes App (605i, 405i, 410i)
- App calculates system enthalpy with air flow and RH probes; App allows you to photograph objects with smart device, capturing measurement marker and temperature values for reference and reporting (805i)
- Includes: Thermal Anemometer 405i, Vane Anemometer 410i, Thermohygrometer 605i, Infrared Thermometer 805i, Smart Case (VAC), batteries, and certificate of calibration



Part No.	Description	Price
05630003	VAC Smart Probe Kit, Bluetooth	\$850.00



05630009

SMART PROBES AC & REFRIGERATION TEST & LOAD KIT

The kit contains two testo 549i high-pressure gauges, two testo 605i thermohygrometers and two testo 115i clamp thermometers. Used in conjunction with your smartphone/tablet, the kit

is ideal for servicing, troubleshooting and installing air conditioning and refrigeration systems. The testo Smart Probes App makes your work easier and more efficient: over 90 stored refrigerants, automatic calculation of superheating/subcooling, target superheat and cooling/heating load, emailing of measurement data reports as PDF or Excel files

- Measure high-side & low-side refrigerant pressure & temperatures (simultaneously) of AC/refrigeration systems
- Testo 549i now includes 45° angled hose connections
- Testo 605i now includes 90° foldable probe
- Calculate superheat and subcooling in the Smart Probe App
- Measurement data is transmitted to the convenient and powerful testo Smart Probes App in your smart device
- HVAC softcase holds the complete set of smart probes
- 350 ft. Bluetooth® Range



Part No.	Description	Price
05630009	Smart Probes AC & Refrigeration Test & Load kit, Bluetooth	\$1,198.00



78060

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.	Description	Scale Range	Price
78055*	Gas Pressure Kit	0 to 10" w.c.	\$144.66
78060*	Gas Pressure Kit	0 to 35" w.c.	\$134.66
78020*	Fuel Oil Test Kit	30" to 0 to 150 psi	\$100.54



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 amplifiers 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	Price
2001	0 to 1.0	0.02	\$146.06
2002	0 to 2.0	0.05	\$127.80
2005	0 to 5.0	0.10	\$146.06
2010DWYER	0 to 10.0	0.20	\$146.06
2015	0 to 15.0	0.50	\$146.06

*WARNING: This item may 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



MINIHELIC DIFFERENTIAL PRESSURE GAUGE

Combines high accuracy, readability compactness, dependability, and low cost.

- Designed for panel mounting in a single 2 5/8" diameter hole.
- Ambient temperature range: 20°F to 120°F

- Rated total pressure: 50 psig surge, 30 psig continuous to either pressure connection
- Accuracy: $\pm 5\%$ of full scale at 70°F
- Connections: barbed, for 3/16" I.D. tubing



Part No.	Range (H2O)	Minor Divisions	Price
2-5001	0 to 1.0	0.05	\$101.20



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 travers
- Perform air duct leakage tests
- Includes: testo 405i, Bluetooth hot-wire anemometer with App, 3 AAA batteries and certificate of calibration
- Hot Wire measuring range 0 to 6,000 fpm
- Accuracy
- $\pm(9.9 \text{ fpm} + 2.5\% \text{ of m.v.})$ (0 to 400 fpm)
- $\pm(29.5 \text{ fpm} + 2.5\% \text{ of m.v.})$ (400 to 3,000 fpm)
- Resolution 2 fpm
- Volume flow 0 to 99,999 cfm (Resolution: 0.1 cfm)
- NTC measuring range -4 to 140°F
- Accuracy $\pm 0.9^\circ\text{F}$
- Resolution 0.1°F

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.	Description	Price
405i	Hot-wire Anemometer, Bluetooth	\$270.00



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.

FLUKE922

- Pressure in H₂O, pascals, mm H₂O, mbar, PSI.
- Velocity in fpm, m/s. Air volume cfm, m³/hr, l/s. Temperature °F, °C
- Air Velocity: Range $\pm 16"$ H₂O; 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 2000 fpm)

Includes soft case, 2 rubber hoses



Part No.	Description	Price
FLUKE922	Thermoanemometer	\$1,539.98
FLUKE922/KIT	Thermoanemometer. 12" pitot tube	\$1,759.98

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ABM100

ANEMOMETER

The ABM100 Airflow Balancing Meter is an anemometer that fits in your pocket. You can download the free app and plug in your ABM100 meter. Enter the grille or duct dimensions and then hold it up to a grille or duct opening, your phone does the rest. By using a series of algorithms

the ABM automatically calculates the airflow volume. The ABM100 also provides the ability to automatically adjust the free space calculation if a grille is present. It has the ability to add comments with each reading if desired.

- Compatible with iPhone, iPad, iPod, and all major Android devices
- Measures airflow in: Linear Feet Per Minute, Cubic Feet Per Minute, Cubic Meters Per Hour, Linear Meters Per Second
- Accurate to $\pm 0.5\%$ 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	Price
ABM100	Airflow Balancing Meter, Smart Phone Compatible	\$107.80



ABM200

AIR FLOW AND ENVIRONMENTAL METER

The ABM200 has all of the features of the ABM100 plus it is wireless and also has temperature, humidity, and pressure sensors. These additional sensors give the meter the ability to accurately measure and record:

temperature differential, dry bulb temperature, wet bulb temperature, heat index, relative humidity, dew point, barometric pressure, air density, indoor vs. outdoor conditions, wind speed/direction/gusts. Can be attached to EXP64 64" aluminum extension pole (sold separately) to take readings without having to go up a ladder. Connects smartphones and tablets utilizing Bluetooth Smart technology. Compatible with Apple iPhones 4S or newer and iPads Generation 3 or newer. All Bluetooth Smart compatible Android phones and tablets with operating system 4.3 or newer.

- Free app that connects the meter to your smartphone
- Onscreen guidance that makes it easy to take accurate readings
- Ruggedized housing with 1/4" 20 mount fitting for handsfree operation
- Emails professional detailed reports from within the app to enhance professionalism and validate work performed
- Units of Measure: inWC, inHg, psi, mmWC, mmHg, Pa, kPa, mBar, fpm, cfm, l/s, m/s, F, C, RH%, lb/ft³
- Accuracy: Airflow velocity 44 to 12,320 fpm $\pm 0.5\%$, temperature -40 to 185°F $\pm 0.5^\circ\text{F}$, humidity 0-95% $\pm 3\%$



Part No.	Description	Price
ABM200	Air Flow and Environmental Meter, Wireless, Bluetooth Smart Connection	\$206.20
EXP64	Extra long reinforced 18-64" extension pole with rugged grip and 1/4" 20 universal mount for use with ABM200	\$68.62



AAV3

THERMOANEMOMETER

Measures air velocity. Use to estimate CFM. Does not replace a hood for precision CFM measurements.

Air velocity:

- Ft./min., meters/sec., MPH, KM/hr
- Range: 80 to 5900 ft./min.
- Accuracy: $\pm 3\%$ fs + 1 dgt

Temperature

- Displays $^\circ\text{F}$ and $^\circ\text{C}$
- Range: -4°F to 140°F
- Accuracy: $\pm 1^\circ\text{F}$ from 32°F to 113°F
- Resolution: 0.5°F
- Max operating temp: 120°F
- Output: 1mV/unit of measure (1mV/100 ft./min. above 2000 fpm)
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
AAV3	Anemometer/Temperature Head	\$272.00



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.	Description	Price
4102	Vane Thermoanemometer/Psychrometer	\$430.00



davm

DIGITAL THERMOANEMOMETER

Measure air flow (FPM) and volume (CFM) in the palm of your hand. Compact and easy to use, the DAVM+ also measures temperature, humidity and light. Ideal for air balancing and other indoor air quality applications.

- $^\circ\text{F}/^\circ\text{C}$ Selectable
- Standard K-Type thermocouple connector
- Measures light levels (LUX)
- Multi-channel display
- Data Hold
- One-Hand Operation
- Carrying Case (SCASE) Included



Part No.	Description	Price
DAVM+	Temperature/Humidity/Air Flow	\$373.34

GAS/AIR FLOW TESTING



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 profile
- Includes: testo 410i, Bluetooth vane anemometer with App, incl. 3 AAA batteries and certificate of calibration
- Vane measuring range: 78.7 to 5,906 fpm / 0.4 to 30 m/s
- Accuracy $\pm(39.4 \text{ fpm} + 2\% \text{ of mv})$ (78.7 to 3937 fpm) / $\pm(0.2 \text{ m/s} + 2\% \text{ of mv})$ (0.4 to 20 m/s)
- Resolution 0.1 fpm / 0.1 m/s
- Volume flow (cfm) 0 to 99,999 cfm (Resolution: 0.1 cfm)
- Temperature range -4 to 140°F
- Accuracy $\pm 0.9^\circ\text{F}$
- Resolution 0.1°F

Users can read the measurements using the testo Smart Probes App installed on their smart device. It is easy to configure volume flow measurements and to reliably run timed multipoint averaging traverses. It is especially useful for balancing multi-outlet ventilation systems by using several instruments. The testo 410i works on smart devices with either Android or Apple operating systems.



Part No.	Description	Price
410I	Vane Anemometer, Bluetooth	\$238.00



DIGITAL MANOMETER

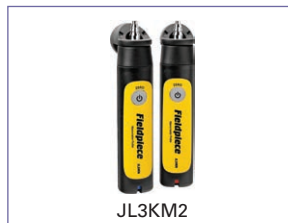
Isolate difficult pressure problems in natural gas and propane systems.

- 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.	Description	Price
DDM55	Dual Input Digital Manometer	\$266.50



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.

- Reliable pressure regardless of location
- Long range wireless
- All-in-one static, gas, and draft pressure
- Accurate and stable measurements
- Individual pressure readouts
- Find Inlet and Outlet gas pressures
- Switchable P1 - P2 indicator
- Job Link® System app compatible
- Easy zero to atmosphere



Part No.	Includes	Price
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	\$400.00



SDMN5

DUAL PORT DIGITAL MANOMETER

Measures gas pressure, static pressure, differential pressure

- Measures: in and mm w.c, mBar, and PSI
- Range: -60.0 to +60.0 in w.c.

- Accuracy: $\pm 1.5\%$ 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	Price
SDMN5	Dual-Port Manometer, (2) 3/16" Tubes with Brass Fittings, (2) 3/16" to 5/16" Tube Adapters (RMA316)	\$348.00
SDMN6 ¹	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	\$670.00

¹Also measures pressure switches



510i

MANOMETER SMART AND WIRELESS PROBE

- Differential pressure (manometer) measures static pressure, air flow, and volume flow (with Pitot tube not incl.)

- Measures manifold pressure and pressure drop across filters and coils and has measurement menu in App that includes pressure drop alarms
- Easy configuration and calculations for volume flow (enter pitot tube factor and dimensions easily)
- Magnetic back holds instrument for hands-free operation
- Includes: 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
- Measuring range -60 to 60 in. WC
- Accuracy ± 0.02 inWC (0 to 0.4 inWC)
- $\pm (0.01 \text{ inWC} + 1.5\% \text{ of m.v.})$ (0.4 to 60 inWC)
- Resolution 0.004 inWC

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 510 works on smart devices with either Android or Apple operating systems.



Part No.	Description	Price
510I	Digital Electronic Manometer, Bluetooth	\$270.00



0510

DIGITAL MANOMETER

Differential pressure meter includes protective cap, batteries, belt holder, calibration protocol, and hoses.

- Display in Pascal optional over entire measurement range (0 to 40.15" H₂O)

- Accuracy: $\pm 0.01"$ (0.0 to 0.12" H₂O), $\pm 0.02"$ (0.13 to 0.4" H₂O)
- Temperature compensation
- Switchable units: hPa, mbar, Pa mmH₂O, mmHg, inH₂O, inHg, psi, m/s, fpm
- Flow velocity measurement with Pitot tube (Pitot tube optional)
- Air density compensation
- Dimensions: 4.5 x 1.7 x 1 in



Part No.	Description	Price
0510	Digital Electronic Manometer	\$358.00



AMN2

MANOMETER

Measures gas pressure and has resolution low enough for static pressure.

- Maximum 20" WC (water column) for gas pressure
- 0.01" WC resolution for static pressure

- Manual zero-set for comparing two pressures
- Includes tube and adapter for gas pressure measurement
- Auto-off can be disabled for data logging
- Use with EHDL1 handle or HS35 multimeter



Part No.	Description	Price
AMN2	Manometer Head	\$204.00



460

VELOCITY METER

- Dual velocity ranges: 260 to 1200 and 1000 to 4000 FPM
- Pressure ranges: .005" to .09" and .05" to 1.0" H₂O



Part No.	Description	Price
460	Air Meter	\$107.52



78077

GAS LEAK GAUGE

Easy-to-read gauge to test system pressure for leaks in new installations. Pressure drop on gauge indicates leakage. 0 to 30 gauge is in 1/4 lb. increments and 0-15 is in 1/5 lb increments to meet some local inspection regulations.



Part No.	Scale Range	Minor Divisions	Price
78077*	0 to 15 psi	1/4 lb.	\$73.56
78080*	0 to 30 psi	1/5 lb	\$60.36

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

INSTRUMENTS

TUBE MANOMETER



U-TUBE MANOMETER

Measures positive, negative and differential pressures. Columns are constructed of flexible butyrate tubing. Fluorescent green dye concentrate indicator solution. Includes magnetic clips for vertical mounting on steel surface.



Part No.	Range (H2O)	Price
122212WM	-6 to 0 to 6	\$106.96



U-TUBE DUAL RANGE MANOMETER

Use as a regular U-Tube for high pressure on right leg or as an incline manometer for low pressure on left leg. Includes carrying plugs with retainers and magnetic clips for mounting on metal surface.



Part No.	Range (H2O)	Price
1227	-.20 to 0 to 2.6	\$208.16



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)	Price
1211-30	15" — 0 — 15	\$185.16



SLACK-TUBE® MANOMETER KIT

Ideal for servicing gas appliances. Tube rolls up for easy carrying. Kit includes:

- (1) 1211-16 Slack Tube® manometer, reads pressure to 16" water.



Part No.	Range (H2O)	Price
1212	0 to 16	\$205.86



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.	Description	Scale Range	Price
78075*	Manometer	-2 to 0 to 15" w.c.	\$70.20

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.	Description	Price
0460	Digital RPM Meter	\$398.00

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)	Price
TL20160*	2	0 to 160	5	\$18.62
TL20300*	2	0 to 300	5	\$18.62
TL25030*	2 1/2	0 to 30	0.5	\$20.62
TL25V150*	2 1/2	30" - 0 - 150	5" / 2 psi	\$20.62
TL25VAC*	2 1/2	30" - 0	5"	\$20.62
TL45200*	4 1/2	0 to 200	5	\$40.00



25300PG

1/4" BOTTOM CONNECTION



Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)	Price
20030PG*	2	0 to 30	0.5	\$17.66
20060PG*	2	0 to 60	1	\$17.66
20100PG*	2	0 to 100	2	\$17.68
20200PG*	2	0 to 200	5	\$17.68
25060PG*	2 1/2	0 to 60	1	\$20.92
25100PG*	2 1/2	0 to 100	2	\$20.92
25160PG*	2 1/2	0 to 160	5	\$20.92
25200PG*	2 1/2	0 to 200	5	\$20.92
25300PG*	2 1/2	0 to 300	5	\$20.92
35100PG*	3 1/2	0 to 100	2	\$26.06
35160PG*	3 1/2	0 to 160	5	\$26.06
45060PG*	4 1/2	0 to 60	1	\$42.42
45100PG*	4 1/2	0 to 100	2	\$42.42

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 flang
- Accuracy: 1% of middle half, 2% remainder.
ANSI B40.1 grade A



Part No.	Pressure Range (psi)	Graduation (Psi)	Price
4CTA200*	0 to 200	2	\$51.54



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)	Price
4CTS060*	0 to 60	1	\$40.00
4CTS100*	0 to 100	1	\$40.00



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.)	Price
LF25S1U*	0 to 600	10	Stem	2 1/2	\$43.06
LF25S1*	0 to 30	1	Stem	2 1/2	\$45.38
LF25S1FV150*	30" - 0 - 150	5" / 5	Front Flange	2 1/2	\$45.38

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)	Price
4RG150*	30" - 0 - 150	5" / 5	\$138.62
4RG300*	30" - 0 - 300	5" / 5	\$138.62



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)	Price
MG25150*	2 1/2	30" - 0 - 150	5" / 5	\$49.24
MG25300*	2 1/2	30" - 0 - 300	5" / 5	\$50.00
MG35150*	3 1/2	30" - 0 - 150	5" / 5	\$63.08
MG35300*	3 1/2	30" - 0 - 300	5" / 5	\$63.08




4MG300

AMMONIA

- Phenolic case
- Movement: Stainless steel rotary
- For ammonia service
- Connection: 1/4" bottom
- Accuracy: ANSI grade A, 1% middle scale



Part No.	Dial Size (In.)	Pressure Range (psi)	Graduation (Psi)	Price
4MG300*	4 1/2	30" - 0 - 300	5" / 5	\$184.62

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

INSTRUMENTS

PRESSURE GAUGE



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
- Temperature range: 60-260 °F
- Pressure range: 0 to 75 psi



Part No.	Dial Size (In.)	Length (In.)	Connection		Price
			Size (In.)	Type	
CTP25R* ¹	2 1/2	3.77	1/4 NPT	Back	\$44.62
CTP25RX* ¹	2 1/2	4.82	1/4 NPT	Back	\$44.62

¹Psi and Ft of HO

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DIGITAL, UNIVERSAL

The Series DPG-100 has a high $\pm 0.25\%$ full scale accuracy. The 4 digit digital display will reduce the potential for errors in readings by eliminating parallax error commonly produced with analog gauges. A 4-button key pad allows easy access

to features without the need to work through complex menus or difficult key combinations. These features include backlight, peak and valley, tare or auto zero, and conversion of the pressure units. For liquids and non combustible compatible gasses. Converts to kg/cm, kPa, oz./in., in.-wc, ft.-wc, cm-wc, m bar, bar, mm-hg, in.-hg.

- Wetted materials: type 316L SS
- Housing materials: black polycarbonate front and back cover, anodized aluminum extruded housing with recessed grooves, polycarbonate overlay, buna-N O-rings. 316L SS sensor construction
- Accuracy: 0.25% F.S. ± 1 least significant digit 32 to 130°F (0 to 55°C). (Includes linearity, hysteresis, repeatability.) $\pm 2\%$ F.S. 10°F. $\pm 5\%$ F.S. 0°F
- Pressure limit: 2x pressure range for models ° 1000 psi; 5000 psi for 3000 psi range; 7500 for 5000 psi range
- Enclosure rating: designed to meet NEMA 4/4X (IP66)
- Temperature limits: 0 to 130°F (-18 to 55°C)
- Thermal effect: between 70 to 130°F is 0.016%/F. Between 32 to 70°F is 0.026%/F. Between 10 to 32°F is 0.09%/F. Between 0 to 10°F is 0.50%/F.
- Size: 3.00" OD x 1.90 deep (max)
- Process connection: 1/4" male NPT
- Display: 4-digit (.425 H x .234 W digits)
- Power requirements: two AAA batteries
- Auto shut-off



Part No.	Pressure Range (psi)	Price
DPG102	15	\$
DPG103	30	\$
DPG104	50	\$
DPG105	100	\$
DPG106	200	\$
DPG107	300	\$
DPG108	500	\$
DPG109	1,000	\$
DPG110	3,000	\$
DPG111	5,000	\$

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

WARNING: This item may 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



G5Twin

TWIN CYLINDER, OIL-LESS

- Horizontally opposing twin cylinders and twin condensers for ultra fast recovery
- 7 inch 10 blade turbine fan 3000 rpm blasts 600 cfm of cooling air over the twin heads and condensers
- Pumps vapor and liquid without throttling
- Operates up to 50 degrees cooler for maximum reliability and speed even in high ambient conditions
- 550 psi cut-out for use with all R410A systems
- Heavy duty 1/2 HP motor, high torque, ball bearing
- UL certified per ARI Standard 740-98

NATIONAL
REFRIGERATION
PRODUCTS

Part No.	HP	Recovery Rates	Capacity (Lbs/Min)		Ship Wgt (Lbs.)	Price
			Direct Liquid	Vapor		
G5TWIN*	1/2	R22	6.22	0.62	27	\$1,560.00



G1Single

SINGLE CYLINDER, OIL-LESS

- Refrigerant-isolated crankcase eliminates bearing contamination
- Solid-mounted pistons eliminate wrist pins and bushing wear
- 7-inch, 10-blade turbine fan blasting 600CFM of cooling air
- 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 minute
- UL certified per ARI Standard 740-9

- 550 psi high pressure shut off for R410A
- Pumps direct liquid and vapor

NATIONAL
REFRIGERATION
PRODUCTS

Part No.	HP	Recovery Rates	Capacity (Lbs/Min)		Ship Wgt (Lbs.)	Price
			Direct Liquid	Vapor		
G1SINGLE*	1/2	R22	8.54	0.26	25	\$1,226.00



714202G1

VORTEX® DUAL, OIL-LESS

- 1 HP dual piston compressor provides industry leading recovery rates
- Micro-channel condenser provides exceptional heat exchange allowing Vortex Dual to maintain recovery rates throughout the entire recovery cycle
- 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

- Oversize fan provides exceptional cooling

NATIONAL
REFRIGERATION
PRODUCTS

Part No.	HP	Recovery Rates	Capacity (Lbs/Min)			Ship Wgt (Lbs.)	Price
			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	29.75	\$1,472.00

*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

PORTABLE REFRIGERANT RECOVERY UNIT



MR45

DIGITAL RECOVERY MACHINE

Recovery machine with onboard system monitoring that adjusts motor performance to handle liquid and run twice as fast on vapor. MR45 also steps up low voltage at the power plug to deliver full power to the motor where high voltage drop is a problem. With a powerful 1HP

motor and super-sized condenser, this machine excels on longer and hotter jobs. The easy-to-read display, lightweight, straight hose connection ports, and single dial make this machine user-friendly while being tough enough for everyday use, even in the rain.

- Protects from voltage drop (runs as low as 95 VAC)
- Single dial self purge
- Twice the RPMs (3,000) and twice the horsepower (1HP) with DC Motor

- Extra large condenser cools faster, especially on hot days
- Only 22 lbs
- Water resistance to withstand direct rain
- Easy access ports
- Long life and low friction with ceramic cylinders
- Dual cylinder compressor
- Easy hose connections and built in power cord storage
- Large backlit display with status messages
- Pressure Sensor Range: -30" Hg to 600 psig
- High Pressure Shut-off: 558 psig, nominal
- Resolution and Units: 1 psig, 1" Hg, 0.05 bar, 0.01 Mpa, 5 Kpa, 2 cmHg
- Power Source: 95 to 130 VAC @ 60 Hz
- A2L ready including R32



Part No.	HP	Ship Wgt (Lbs.)	Price
MR45	1	22	\$2,044.00

REFRIGERANT RECOVERY ACCESSORIES



MT69

REFRIGERANT MOLECULAR TRANSFORMATOR

The MT69 transforms molecules of hot refrigerant gas into molecules of refrigerated liquid. It also transforms molecules of cold refrigerant liquid into a warm refrigerant gas.

- Up to 95% increase in recovery speed
- Actual time to recover 15 Lbs of R22 at 120°F is 17 minutes with MT69 vs 32 minutes without MT69
- Dimensions: 9 1/4" H x 4 1/4" Diameter

- The hotter it gets, the better it works
- Eliminates the need to change tanks when recovering R410A
- Eliminates annoying shutdown due to high pressure switch limit
- Essential for recovering R410A on hot days
- Essential for recovering liquid refrigerant on cold days
- Functions as a submersible condenser or evaporator
- Cuts recovery time in half
- Maintenance free
- Eliminates liquid slugging at colder temperatures
- Rugged, compact and easy to use



Part No.	Height (In.)	Diameter (In.)	Price
MT69	9 1/4	4 1/4	\$280.00

REFRIGERANT PUMP



LP22

LIQUID REFRIGERANT PUMP

The LP22 is a gear pump with neoprene seals designed and manufactured for ease of use. It has a MOP of 300 PSI with a DWP of 150 PSI. This self lubricated pump is supplied with a 1/2 HP motor and has the capability to transfer refrigerants/oils/glycols.

- Power: 1/2 HP, 115/60/1
- Connections: 3/8" FPT
- Self-Priming
- Will work in any position
- 2.75 Gal/Min for Oil and Glycols



Part No.	Use with	Transfer Rate (Lbs/Min)	Ship Wgt (Lbs.)	Price
LP22*1	R11, 12, 22, 113, 123, 500, 502, 134A, Blends	20	37	\$3,400.00

*May not be applicable for all blends. Consult factory for proper application.

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



STANDARD RECOVERY CYLINDER

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Max. Pressure (Psi)	Max. Recovery Cap. 80% (Lbs.)	Nb. of Valves	Ship Wgt (Lbs.)	Price
NC30	30	26.2	400	24	One 2 Port	16	\$266.52
NC30U ¹	30	26.2	400	24	One 2 Port	17	\$365.72
NC50	50	47.7	400	40	One 2 Port	28	\$309.30
NC50U ¹	50	47.7	400	40	One 2 Port	29	\$398.00
NC100 ²	125	122.0	300	100	One 2 Port	51	\$634.00
NC100U ^{1,2}	125	122.0	300	100	One 2 Port	52	\$964.16
NC240 ²	240	240.0	250	192	Two 1 Port	80	\$937.70
NC240U ^{1,2}	240	240.0	250	192	Two 1 Port	81	\$1,054.58
NC1000 ³	1000	1000.0	260	800	Two 1 Port	391	\$3,088.80

¹With float switch ²Available in 400 Lb. pressure ³With float gauge. Available in 400 Lb. pressure.

R11 LARGE RECOVERY CYLINDER

Models N250T and N665T are supplied with protective collars (top and bottom), 0-100 PSIG gauge, pressure relief valve, sight glass 1/3 and 2/3 levels, non-condensable purge tap, float switch

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Max. Pressure (Psi)	Max. Recovery Cap. 80% (Lbs.)	Nb. of Valves	Use with	Ship Wgt (Lbs.)	Price
N250T	250	250.0	165	200	Two 1 Port	VR11	107	\$2,356.00
N665T	665	665.0	200	532	Two 1 Port	VR11	265	\$2,572.00

VERY HIGH PRESSURE RECOVERY CYLINDER

Part No.	Capacity (Lbs.)	Water Capacity (Lbs.)	Max. Recovery Cap. 80% (Lbs.)	Nb. of Valves	Use with	Ship Wgt (Lbs.)	Price
NC23	28	23.8	23	One 1 Port	R13, R23, R503 - LP13, VR13	43	\$696.80
NC80	106	89.0	84	One 1 Port	R13, R23, R503 - LP13, VR13	113	\$1,187.58

VACUUM PUMP



GVP6

GLOBESAVER™

- Dual intake connections
- Voltage: GVP6, GVP12 115/220V; GVP3 115V only
- Ergonomic sure-grip handle



Part No.	Free Air Displ. (CFM)	Intake MFL (In.)	Oil Capacity	HP	RPM	Dimensions (In.)			Ship Wgt (Lbs.)	Price
						L	W	H		
GVP3*	3	1/4 x 3/8	14.0 Oz.	1/4	1720 60 Hz	14	5.71	10.5	26	\$426.20
GVP6*	6	1/4 x 3/8	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	16.93	5.71	10.43	31.5	\$854.20
GVP12*	12	3/8 x 1/2	34 Oz.	1/2	1440 50 Hz, 1730 60 Hz	18.89	5.71	11.81	48.5	\$1,230.80



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.	Free Air Displ. (CFM)	Intake MFL (In.)	Oil Capacity	HP	Dimensions (In.)			Ship Wgt (Lbs.)	Price
					L	W	H		
TEZ8*	8	1/4, 3/8, 1/2	7.6 Oz.	1/2	14.25	9.4	10.3	28	\$1,798.00

Part No.	Description	Price
TZM1PK	TEZ8 Oil Cartridge (1 Cartridge)	\$21.90
TZMGLN	TEZ8 Oil (1 Gallon)	\$68.76



DV6E

ELIMINATOR™

- Tested to 25 microns ensuring a deep vacuum
- 115 V - 1/2 HP motor
- 2 stage direct drive



Part No.	Intake MFL (In.)	Oil Capacity	HP	Ship Wgt (Lbs.)	Price
DV-6E*	1/4 x 3/8	25	1/2	15	\$705.62



DV200

PLATINUM®

- 115 V motor
- 2 stage direct drive
- Integral blank off isolation valve
- 1/2 HP motor



Part No.	Intake MFL (In.)	Oil Capacity	HP	Ship Wgt (Lbs.)	Price
DV85N*	1/4, 3/8	26	1/2	30	\$904.96
DV142N*	1/2, 1/4, 3/8	21	1/2	32	\$963.56
DV200*	1/2, 1/4, 3/8	21 Oz.	1/2	32.7	\$1,030.08
DV285N*	1/2, 1/4, 3/8	26	1/2	35	\$1,442.70



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



93560

- 2 stage rotary vane pump
- 1/4" and 1/2" male flare intake
- Voltage: 115 Vac



Part No.	Free Air Displ. (CFM)	Intake MFL (In.)	Oil Capacity	HP	Ship Wgt (Lbs.)	Price
93560*	6	1/4" and 1/2"	27 Oz.	1/2	31.5	\$1,300.54
93580*	8	1/4" and 1/2"	32	1/2	37.67	\$1,210.00



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.	Free Air Displ. (CFM)	Intake MFL (In.)	Oil Capacity	HP	RPM	Dimensions (In.)			Ship Wgt (Lbs.)	Price
						L	W	H		
93600*	7	1/4" x 3/8" x 3/8"	28	1/2	1725	16.25	6	11.5	36.3	\$842.00



VP85

VACUUM PUMP WITH RUNQUICK™ OIL CHANGE SYSTEM

- On-the-fly oil change in second
- In-line four port manifold for easy access (1/4", 3/8" (2), 1/2")
- Backlit oil reservoir to view condition of oil and system
- Sturdy base to stay upright
- Simple-to-use gas ballast with LED indicator
- Water resistant to withstand direct rain 15 micron ultimate vacuum
- Anti oil-suck-back keeps oil out of gauges and system
- Smart variable speed DC motor
- Protects against voltage drop (runs as low as 95 VAC)
- Cold weather start up
- Storage for reserve 8 oz oil container



Part No.	Free Air Displ. (CFM)	Intake MFL (In.)	Oil Capacity	HP	RPM	Dimensions (In.)			Ship Wgt (Lbs.)	Price
						L	W	H		
VP85	8	1/4, 3/8, 3/8, 1/2	8 Oz.	3/4	2500	17.7	9.25	12.4	28	\$1,366.00



VPS12DU

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)
- 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
- Steel inlet port with multiple intake sizes (1/4, 3/8 & 1/2 SAE), Ammonia compatible
- Ignition proof ON-OFF switch
- Rubber lined handle, skid-resistant rubber base
- Gas ballast valve for deeper vacuum
- Air-cooled, thermally protected motors encased in a durable aluminum housing



Part No.	Free Air Displ. (CFM)	Oil Capacity	HP	Dimensions (In.)			Ship Wgt (Lbs.)	Price
				L	W	H		
VPS6DU ¹	6	16 Oz	1/2 @ 3440 RPM	13.1	5.5	10	30	\$877.32
VPS12DU ¹	12	27 Oz	1 @ 3440 RPM	13.1	5.7	10.6	30	\$1,657.16

¹Power Connection to Pump: 10' Hard wired

*WARNING: This item may 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

VACUUM PUMP



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	Dimensions (In.)			Ship Wgt (Lbs.)	Price
				L	W	H		
1402B46	5.6	1/2	525	20	12	15	112	\$6,890.00
1376B46	10.6	1	525	20	14.1	15.4	156	\$9,460.00
1397B01	17.7	1	400	26	13.7	18.8	205	\$12,290.00

Part No.	Description	Price
1407K11	Vacuum pump oil, quart	\$68.76
1407K15	Vacuum pump oil, gallon	\$186.90

VACUUM ACCESSORY



DVT1

VACUUM PUMP OIL CADDY, THE TANK

The TANK extends the life of your vacuum pump! All vacuum pumps require changing oil after every use. Contaminated oil, laden with moisture and acid will damage pumps and shorten pump life. Deep vacuums cannot be achieved with contaminated oil. Maintaining clean oil in the pump ensures that your pump will operate at peak efficiency.

- Change your vacuum pump oil in between jobs
- No more mess and spills, easy and convenient



Part No.	Description	Ship Wgt (Lbs.)	Price
DVT1*	5 Oil Change Capacity	1	\$70.34



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.)	Price
93860*	2 Valve Evacuation Manifold	2.15	\$336.64

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

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.	Description	Price
DV22*	Handheld digital vacuum gauge	\$328.60



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.	Description	Price
PILOT	Digital Vacuum Gauge	\$763.52



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.	Description	Price
VG64	Electronic Vacuum Gauge	\$330.00



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	Price
69075*	Digital Vacuum Gauge, 1 μ to 1 ATM	\$837.06
69073*	Replacement Sensor	\$210.10



SVG3

DIGITAL MICRON GAUGE

Compact, rugged gauge loaded with features HVACR professionals need to help them do more. It includes a large, dual display with a rate indicator, alarms, timer, rugged rubberized case, and a hook at strap that allows the vacuum gauge to be hung at any angle.

The display has a bright backlight for high visibility in any situation. To minimize leaks the SVG3 has a schrader depressor that can connect directly to your core removal tool, or directly to the service port. Fewer connections reduce the potential for leaks unrelated to the system. The rate indicator helps determine if there are any leaks within the system.

When the vacuum reaches the low alarm set point, an audible alarm triggers, the backlight flashes, and the integrated stopwatch restart to show the technician how long the system has maintained a deep vacuum. You can set both high and low alarms. And the timer can display how long it took to get to the alarm and how long the vacuum has been maintained.

- Rate Calculator: view how fast system pressure is rising or falling
- Schrader Depressor: minimizes leaks by reducing connections
- 1 Micron Resolution, 0 - 9999 Micron Range
- Units of measure: microns (μ m) of mercury, mmHg, mbar, mTorr, Torr, and pascals
- Alarms and Stopwatch: be alerted when system drops to desired level, and know how long it took



Part No.	Description	Price
SVG3	Micron Vacuum Gauge, 0 - 9999 Micron Range	\$404.00



DV41

SUPERNOVA DIGITAL GAUGE

- Fully programmable including approach and leak alarm settings, shutoff and back light duration
- Measures in Microns, PSIA, inHg, Pascals, Torr, mTorr and mBar
- Easy-to-read LCD screen

- Factory calibrated
- 1/4" SAE flare brass fitting with flexible 5-ft cord for hard-to-reach spaces
- Easy-to-clean sensor
- Rugged carrying case (included)
- Vacuum Reading Range: 100,000 to 10 microns
- Power Supply: AC adapter (included) or three AA alkaline batteries
- Warranty: 12 months



Part No.	Description	Price
DV41*	Digital Micron Gauge with Case and A/C Adapter	\$513.44



5520

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	Price
552	2AA Batteries	\$458.00

*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 GAUGE



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

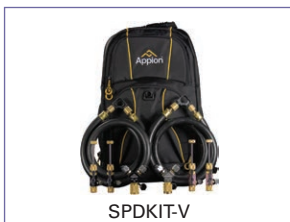
mount technology automatically compensates for ambient changes in the environment ensuring accuracy and consistency in performance. Advanced field-cleanable sensor is able to withstand 400 PSI of positive pressure. Unit operates 30 hours on 9V alkaline battery with low battery indicator and auto off 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.	Description	Power	Price
VG200	Vacrometer™, Digital Vacuum Gauge, Atmospheric Pressure to 0 Microns	One 9 volt alkaline battery	\$356.56

MANIFOLD



SPDKIT-V

MEGAFLW™ SPEEDKIT-V

Features and Benefit

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

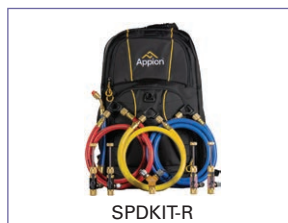
- Fast and Simple - Simple setup, Fast evacuation, Reduced job times
- Vacuum-Rated Components - Tools that do not leak in a deep vacuum
- Full Flow - No flow restrictions across the whole setu
- Ultra-Flexible Large Diameter Hoses - Get into tight spaces and significantly reduce evacuation time
- Upgradable to ≈ 12CFM of flow at with the addition of (2) MGABAS MGABRO
- Toolbag Included - Quickly organize and efficiently carry tool

Includes

- (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
- (1) Speed Y 3/8in
- (1) Speed Y 1/2in
- (1) MegaFlow SpeedKit Carry Bag



Part No.	Description	Price
SPDKIT-V*	MegaFlow Vacuum Speed Kit	\$929.08



SPDKIT-R

MEGAFLW™ SPEEDKIT-R RECOVERY SPEED KIT

Features and Benefit

- 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 setu
- Toolbag Included - Quickly organize and efficiently carry tool

Includes

- (1) MegaFlow 3/8 in Hose - 6 ft [3/8FL to 1/4FL] Blue
- (1) MegaFlow 3/8 in Hose - 6 ft [3/8FL to 1/4FL] Red
- (1) MegaFlow 3/8 in Hose - 4 ft (1/4FL to 1/4FL) Yellow
- (1) 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
- (1) 45° 1/4in MFL swivel fitting w/scre
- (1) Speed-Y 1/4in
- (1) MegaFlow SpeedKit Carry Bag



Part No.	Description	Price
SPDKIT-R*	MegaFlow SpeedKit-R recovery speed kit	\$864.00



SPDY14

SPEED-Y

The MegaFlow Speed-Y features a large inner diameter for unrestricted Full Flow and is Vacuum-Rated to 20 microns. The Speed-Y makes it easy to connect multiple hoses to a single point without the drawbacks of a traditional manifold.

- Full Flow - Large inner diameter with no restrictions for increased conductance speed
- Vacuum-Rated to 20 microns
- Simplified Connections - Easily connect multiple hoses to a single vacuum pump port and reduce leak points
- Durable - Premium aircraft grade aluminum bodies with high quality brass fitting
- Increase the speed of any vacuum pump



Part No.	Description	Price
SPDY14*	(2) 3/8" MFL x (1) 1/4" FFL	\$133.12
SPDY12*	(2) 3/8" MFL x (1) 1/2" FFL	\$140.58
SPDY38*	(2) 3/8" MFL x (1) 3/8" FFL	\$140.58

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



MBHP5E

BLACKMAX™ MANIFOLD

BlackMax™ Exclusive T 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
- R410A, R22, R404A scales, 2.5" gauge

cps

Part No.	Description	Price
MBHP5E	Manifold, R410A, (3) 5' ball valve hoses	\$264.04



0549

PRINTER

Printer for use with any compatible Testo analyzer

testo

Part No.	Description	Price
0549	Testo Fast IR Printer	\$678.00
0568	Testo Thermal Printer Rolls, pkg of 6	\$78.00



SM380V

DIGITAL MANIFOLD

From the extremely rugged overmold casing, reinforced hook, and hermetically sealed sight glass, to the wireless capabilities, data logging, and tightness test, the SM380V and SM480V are built so you can do your job easier, faster and better.

- Stores up to 9 jobs internally
- Easy download via USB port
- Displays % free storage space before logging begins
- Logs up to 7 days (168 continuous hours)
- Adjust auto power off duration
- Set high and low vacuum alarms
- Select each unit of measurement individually
- Wireless compatibility
- Display: LCD (5 inches diagonal)
- Battery Type: 6 x AA alkaline
- Battery Life: 350 hours typical (without vacuum, backlight, and wireless)
- Pressure Range: 870 Psig, Resolution: 0.1 Psig
- Temperature Sensor Type: Type K thermocouple
- Range: -50°F to 257°F, Resolution: 0.1°F
- Each include: (2) TC24 Wired Type-K Pipe Clamp Thermocouple, (1) ATA1 Type-K Bead Thermocouple with Clip, (1) ANC11 Padded Drawstring Case

Fieldpiece

Part No.	Description	Price
SM380V	3-Port Digital Manifold with Micron Gauge, Water Resistant (IP54)	\$1,150.00
SM480V	4-Port Digital Manifold with Micron Gauge, Water Resistant (IP54)	\$1,464.00



40815

MANIFOLD, DIGITAL

Features a full color graphics display with adjustable brightness and contrast. The display reads in analog, digital or a combination of both, and monitors two pressures, two live temperatures, subcooling and superheat, and saturation temperatures (liquid and vapor) for 84 refrigerants (upgradable via USB for new refrigerants). The analyzer comes standard with the 4-valve TITAN™ manifold, an external, replaceable vacuum sensor and a blow-molded instrument case.

- Built-in pressure/temperature chart reference screen for all refrigerants
- Built-in full scale vacuum sensor reads deep vacuum down to 10 microns
- Dual K-Type temperature-compensated sensor ports allow for simultaneous suction and liquid readings
- Provides real-time pressure data in selectable time increments: 0.1, 0.2, 0.5, 1 and 2 seconds
- Displays and records max/min pressures
- Data logging with date/time for onscreen review or USB export to PC to generate performance/Excel™ work reports
- Elevation may be entered manually for accurate, automatic pressure compensation
- Pressure sensing resolution (low and high sides): 0.1 psi, 0.01 bar, 1 kPa, 0.1 MPA, 0.01 kg/cm
- Pressure sensing accuracy: 1% of full scale at 55°F to 130°F
- Max. working pressure:
- Low side: 0 - 350 psia
- High side: 0 - 700 psia
- Proof pressure (low and high sides): 1000 psi
- Burst pressure (low and high sides): 1500 psi
- Temperature sensor range: -100 to 600°F
- Dimensions: 8.3" W x 6.7" H x 3.6" D (excluding manifold)
- Power: AA batteries (8), 1 day of continuous operation

YELLOW JACKET

Part No.	Description	Price
40815*	Refrigeration System Analyzer with TITAN™ 4-Valve Manifold and 60" PLUS II™ Charging Hoses (RYB)	\$2,354.00

*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

MANIFOLD



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 particulate material and extends the life of the seats.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.

Additional features of 4-valve model:

- Fourth hose to enable connection to hi/lo sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses.
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4")



Part No.	Nb. of Valves	Scale Type	Includes	Price
49868*	2	R22, R404A, R410A	60" Plus II™ Compact Ball Valve, RYB	\$493.00
49963*	4	R22, R404A, R410A	Manifold Only	\$338.80
49967*	4	R22, R404A, R410A	60" Plus II™, RYB & 3/8" x 45°	\$495.64
49925*	4	R12, R22, R502	Liquid Filled Gauges, 60" Plus II™, RYB & 3/8" x 45°	\$675.66



4 VALVE MANIFOLD, 800 SERIES

- 4 valve efficiency: vacuum, low side, high side, and refrigerant lines are individually connected and controlled.
- 4 times faster evacuation: 3/8" vacuum port and oversize internal passages evacuate systems four times faster than ordinary manifolds.

- Unique Deep Draw vacuum valve design: soft-seat valves require only fingertip pressure to close completely



Part No.	Description	Price
845-CC	Manifold Only, R410A, R22, R404A	\$278.00



P51 TITAN™ DIGITAL MANIFOLD KIT

Measures high and low side pressures and temperatures

- Displays vapor and liquid saturation temperatures
- System superheat and subcooling calculations
- On board data logging; export to your computer through USB or to your phone via the ManTooth app
- Pressure hold mode displays rate of change for both vacuum and positive pressure measurements
- 4-way TITAN valve block
- 126 refrigerant profiles stored in the instrument including new blends not currently on the Refprop database.
- Backlit display with auto-dimming
- Auto shut-off
- Bluetooth capability for use with ManTooth app
- Vacuum measurements, targets and leak testing
- Re-chargeable battery with battery life indicator
- Continuous use no backlight: 80 hours
- Continuous use full backlight: 4 hours
- US and international units (bar, psia, psig, kPa, MPa, kg/cm2)
- Maximum working pressure 700 psia
- Two year warranty
- Includes: Vacuum sensor, Set of four manifold hoses: (3) 60", 1/4" RYB and (1) 60", 3/8" yellow vacuum hose 3/8" straight x 3/8" 45°, Two temperature clamps and two 6' extension cables, USB Charging cable, Backpack carrying case



Part No.	Description	Price
40870	P51 TITAN™ Digital Manifold	\$1,489.56



DIGITAL KIT, TESTO 550

- High flexibility with 60 refrigerants included profile
- Superheating / subcooling calculation in real time
- Bluetooth / App integration for monitoring, report generation, and sending reports and invoices via email
- Measures high side / low side pressures and temperatures and displays saturation and evaporation temperatures
- Updating refrigerant profiles via AP
- Smartphone can be used as second remote display
- Graphical trending on smartphone
- Set alarm values in APP
- Temperature compensated tightness test
- High pressure range of 870 psi on both sides
- 2-way valve block with three connections
- Rugged housing with 5 year warranty with registration for reliable service



Part No.	Description	Price
5502H	Digital Refrigeration System Analyzer Kit with Bluetooth, and (3) 60" refrigeration hoses	\$850.00

*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

**DIGITAL, TESTO 557**

The testo 557 digital manifold has a 4-way valve block, large backlit display and sight glass. Two NTC thermistor clamp probes provide superior accuracy of simultaneous, real-time superheat and sub-cooling readings.

An external vacuum probe provides fast and more reliable evacuation of the system. The wireless Bluetooth / App allows you to view measurement data on your Smartphone or Tablet, enabling you to quickly and conveniently complete and document your job. Then, be able to finalize the documentation and send the reports and invoice via email, right from the job site. In addition to the 60 refrigerant profiles stored in the instrument, the App can also be used to download new refrigerants from the Internet directly into the digital manifold.

- Measures high side / low side pressures and temperatures
- 4-way valve block with 1/4 in. and 3/8 in. ports
- External vacuum probe for faster and more reliable evacuation of the system
- Battery life: 250 hr (without illumination, without Bluetooth, without vacuum probe)
- External vacuum probe
- Bluetooth / App integration for monitoring, report generation, and sending reports and invoices via email (65 feet range)
- Rugged housing with 5 year warranty with registration for reliable testing
- Includes: testo 557 kit, digital manifold with Bluetooth / App; including 2 x NTC temperature clamp probes, external vacuum probe, batteries, case, certificate of conformity, and user's manual.



Part No.	Nb. of Valves	Description	Price
5572H	4	Four Valve Manifold Kit, Digital, with Bluetooth	\$1,278.00

**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.	Description	Price
26125*	Manifold, R22, R134a, R404A (Hoses not included)	\$367.96
26225*	Manifold, R22, R410A, R404A (Hoses not included)	\$367.96

**MINI REFRIGERATION SYSTEM ANALYZER**

The new YELLOW JACKET® Mini Refrigeration System Analyzer brings digital capabilities to your existing analog brass manifold at an economical price. It monitors one pressure and one live temperature then displays

automatic superheat and subcool calculations for nearly 100 refrigerants.

- Nearly 100 NIST refrigerant profiles included (upgradeable via USB for new refrigerants)
- Automatic superheat and subcool calculations
- Displays bubble, saturated and dewpoint temperatures
- Easy-to-read graphic display with backlight
- Internal single brass manifold
- Refrigerants "favorites" set up
- Elevation may be entered manually for accurate, automatic pressure compensation
- Includes bead probe
- Two-year warranty



Part No.	Description	Price
40852*	Mini Refrigeration System Analyzer	\$133.84

**PATRIOT 2-VALVE BRASS MANIFOLD**

- New rugged bar design with metal handles
- Free floating O-ring system
- Swiveling hose holders
- Replaceable hose fitting
- 3-1/8" Class 1 illuminating gauges



Part No.	Description	Price
22225*	Manifold, R404A, R22, R410A	\$159.76

**DIGITAL KIT, TESTO 549**

The Testo 549 digital manifold sets a new standard in performance and durability, making it a breakthrough value.

- High flexibility with 60 refrigerants included profile
- Measures high side / low side pressure and indicates saturation

- and evaporation temperature, no more charts!
- Provides real-time superheat and sub-cooling with optional temperature probes
- 2-way valve block with three connections and sight glass
- Fast and accurate determination of system parameters
- Drop resistant
- Splash proof IP42
- Display bezel improvement
- Temperature compensated tightness test
- Large 2-line backlit display
- Rugged housing with 5 year warranty with registration for reliable service



Part No.	Description	Price
549	Digital Manifold	\$524.00

⚠ 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

MANIFOLD



SMART PROBES AC AND REFRIGERATION TEST KIT

- Compact kit includes 549i high-pressure gauge and 115i clamp thermometer (two of each)
- 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.	Description	Price
0563000220	Smart and Wireless AC/R Kit: (2) Pipe Clamp Thermometers 115i, (2) Refrigeration Pressure Probes 549i	\$738.00



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'.

- Includes: testo 549i, Bluetooth refrigeration pressure probe with App, 3 AAA batteries and certificate of calibration
- Measuring range -14 to 870 psi
- Accuracy 0.5% of final value
- Resolution 0.1psi
- Connection 7/16" - UNF
- Overload rel. 940psi

Part No.	Description	Price
549i	Refrigeration Pressure Probe, Bluetooth	\$238.00



KWIK-CHARGER

Imperial's new series 700-C Kwik-Charger® manifold features a patent pending control valve that charges refrigeration systems up to eight times faster than conventional methods. Engage the refrigerant control valve and the manifold

accepts liquid refrigerant from the cylinder and discharges into the low side of the system. An internal metering element reduces liquid flow to a level below the capacity of the compressor, assuring a safe fast charge. Disengage the refrigerant control valve and the Kwik-Charger® operates as a conventional manifold for evacuation, vapor or liquid high-side charging.

For R410A, R22, R404A



Part No.	Description	Price
715-C	Imperial Kwik-Charger® Manifold	\$322.54



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 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	Price
46000*	4	R410A	Manifold Only	\$420.80
46180*	4	R12, R22, R502	Manifold Only	\$626.64
46001*	4	R410A	Manifold Only, Liquid Gauge	\$647.20
46010*	4	R22, R404A, R410A	Manifold Only	\$420.80
46011*	4	R22, R410A	Manifold Only, Liquid Gauge	\$647.20
46022*	4	R12, R22, R502	(3) 60" x 1/4" Plus II Hose (1) 60" x 3/8" Hose	\$626.64



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41215

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.	Scale Type	Includes	Price
41215*	CFC	HA60RYB (3) 60" Hose	\$259.06
44215*	CFC	22985 Sealright (3) 60" Hose	\$523.10
41312*	HFC	Manifold Only	\$146.94
41313*	HFC	HA36RYB (3) 36" Hose	\$243.26
41709*	R410A	HCA60 (3) 60" Hose	\$306.76
42001*	R22, R404A, R410A	Manifold Only	\$164.96
42004*	R22, R404A, R410A	(3) 60" Plus II™ Hose	\$277.80



M28410A



Part No.	Description	Price
M28410A*	Manifold Only, M2, R410A, R404A, R22, 2 1/2" gauge	\$122.08
M25410A*	Manifold, M2, R410A, R404A, R22, 2 1/2" gauge, 5' Hose Set, RYB, 800/4000 psi	\$218.74

MANIFOLD

40263



Part No.	Use with	Dimensions (In.)			Price
		W	H	L	
40263*	Series 41	8	4 1/4	12 1/4	\$73.38

MANIFOLD CASE**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	Price
RM2*	HFC	2 1/2	Manifold Only	\$132.86
RM236*	HFC	2 1/2	(3) 36" Hoses	\$206.50
RM260*	HFC	2 1/2	(3) 60" Hoses	\$224.42
RM3*	R410A	2 1/2	Manifold Only	\$132.86
RM336*	R410A	2 1/2	(3) 36" Hoses	\$208.88
RM360*	R410A	2 1/2	(3) 60" Hoses	\$233.56
R3M2*	R22, R404A, R134a	3 1/8	Manifold Only	\$152.78
RM290*	R290	3 1/8	Manifold Only	\$152.78
R3M236*	R22, R404A, R134a	3 1/8	(3) 36" Hoses	\$237.20
R3M260*	R22, R404A, R134a	3 1/8	(3) 60" Hoses	\$257.68
R3M4*	R22, R404A, R410A	3 1/8	Manifold Only	\$152.78
R3M436*	R22, R404A, R410A	3 1/8	(3) 36" Hoses	\$237.20
R3M460*	R22, R404A, R410A	3 1/8	(3) 60" Hoses	\$257.68
RM4*	R22, R404A, R410A	2 1/2	Manifold Only	\$132.86
RM436*	R22, R404A, R410A	2 1/2	(3) 36" Hoses	\$206.50
RM460*	R22, R404A, R410A	2 1/2	(3) 60" Hoses	\$224.42
RM5*	R22, R407A, R407C	2 1/2	Manifold Only	\$132.86
RM536*	R22, R407A, R407C	2 1/2	(3) 36" Hoses	\$206.50
RM560*	R22, R407A, R407C	2 1/2	(3) 60" Hoses	\$224.42
RM6*	R22, R407C, R410A	2 1/2	Manifold Only	\$132.86
RM636*	R22, R407C, R410A	2 1/2	(3) 36" Hoses	\$206.50
RM660*	R22, R407C, R410A	2 1/2	(3) 60" Hoses	\$224.42

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GAUGE



N2001

GAUGE

- Replacement manifold gauge



Part No.	Scale Range	Scale Type	Dia. (In.)	Color	Price
N2002*	30" - 0 - 120	HFC	2 1/2	Blue	\$32.00
N2003*	0 - 500	HFC	2 1/2	Red	\$32.00
N2004*	0 - 800	R410A, R22, R407C	2 1/2	Red	\$32.00
N2005*	30" - 0 - 250	R410A, R22, R407C	2 1/2	Blue	\$32.00
N2006*	0 - 800	R410A	2 1/2	Red	\$32.00
N2007*	30" - 0 - 500	R410A	2 1/2	Blue	\$32.00
N2008*	0 - 800	R22, R404A, R410A	2 1/2	Red	\$32.00
N2009*	30" - 0 - 250	R22, R404A, R410A	2 1/2	Blue	\$32.00
N2010*	0 - 500	R22, R407A, R407C	2 1/2	Red	\$32.00
N2011*	30" - 0 - 250	R22, R404A, R407C	2 1/2	Blue	\$32.00
N3000*	0 - 800	R22, R404A, R410A	3	Red	\$37.34
N3001*	30" - 0 - 350	R22, R404A, R410A	3	Blue	\$37.34
N3002*	0 - 500	R22, R134a, R404A	3	Red	\$37.34
N3003*	30" - 0 - 120	R22, R134a, R404A	3	Blue	\$37.34
N3G00*	0 - 600	R290		Red	\$40.94
N3G01*	30" - 0 - 250	R290		Blue	\$40.94



N2007G

GAUGE, GLYCERINE FILLED

- Replacement manifold gauge



Part No.	Scale Range	Scale Type	Diameter (In.)	Color	Price
N2006G*	0 - 800	R410A	2	Red	\$49.34
N2007G*	30" - 0 - 500	R410A	2	Blue	\$49.34
GRK	Replacement Glycerine				\$14.66
GFP	Glycerine gauge replacement fill plug (3/pa k)				\$6.66



49001

GAUGE

- Gauges are 1/8" MPT bottom connection
- Replacement manifold gauge



Part No.	Scale Range	Scale Type	Dia. (In.)	Color	Price
49001*	0 - 500	CFC	2 1/2	Red	\$45.46
49002*	30" - 0 - 120	CFC	2 1/2	Blue	\$45.46
49051*	0 - 500	R134a, R404, R507	2 1/2	Red	\$40.00
49052*	30" - 0 - 120	R134a, R404, R507	2 1/2	Blue	\$40.00
49132*	30" - 0 - 300	R134a, R404A, R407C	3 1/8	Blue	\$60.26
49137*	0 - 800	R22, R410A, R410A	3 1/8	Red	\$53.00
49138*	30"-0-350 psi	R22, R410A, R410A	3 1/8	Blue	\$53.00



49511

GAUGE, GLYCERINE FILLED

Glycerine filled gauges are a large 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	Dia. (In.)	Color	Price
49511*	0 - 500	R22	3 1/2	Red	\$133.84
49512* ¹	30" - 0 - 120	R22	3 1/2	Blue	\$133.84
49513* ²	0 - 500	R22, R134a, R404A	3 1/2	Red	\$133.84
49514* ¹	30" - 0 - 120	R22, R134a, R404A	3 1/2	Blue	\$133.84
49515*	0 - 800	R22, R410A	3 1/2	Red	\$133.84
49516* ³	30" - 0 - 350	R22, R410A	3 1/2	Blue	\$133.84
49517*	0 - 500	R134a, R404A, R407C	3 1/2	Red	\$133.84
49518* ¹	30" - 0 - 120	R134a, R404A, R407C	3 1/2	Blue	\$133.84
49519*	(0 - 55.16 Bar)	R410A	3 1/2	Red	\$133.84
49520*	(-1 - 21 Bar)	R410A	3 1/2	Blue	\$133.84

¹Features retard protection to 240 psi ²Liquid Filled, features retard protection to 240 psi ³Features retard protection to 500 psi



M2250

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	Dia. (In.)	Color	Price
M2250*	30" - 0 - 120	CFC	2 1/2	Blue Steel	\$28.52
M2250B*	30" - 0 - 120	CFC	2 1/2	Brass	\$56.62
M2500*	0 - 500	CFC	2 1/2	Red Steel	\$28.52
M2500B*	0 - 500	CFC	2 1/2	Brass	\$56.62
M2410*	30" - 0 - 250	R410A	2 1/2	Blue Steel	\$34.96
M2415*	0 - 800	R410A	2 1/2	Red Steel	\$34.96
M2460*	30" - 0 - 250	R22, R404A, R410A	2 1/2	Blue Steel	\$28.52
M2465*	0" - 800	R22, R404A, R410A	2 1/2	Red Steel	\$28.52

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



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	Dia. (In.)	Color	Price
M2820L*	30" - 0 - 250	R22, R404A, R410A	3 1/8	Blue	\$67.72
M2825L*	0-800	R22, R404A, R410A	3 1/8	Red	\$67.72



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	Color	Price
M2851*	30" - 0 - 120	R22, R404A, R134a	Blue Steel	\$59.94



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	Price
49091*	Red	\$18.24
49092*	Blue	\$18.24
49090*	1 Red, 1 Blue	\$34.70

AMMONIA

40193

MANIFOLD

Part No.	Includes	Price
40193*	(3) NHA48 48" NH, Hose	\$974.20



40202

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	Price
40201*	2 1/2	30" - 0 - 150	PlasticTwist On	\$162.44
40202*	2 1/2	30" - 0 - 400	PlasticTwist On	\$162.44



16848

HOSE, 1/4"

- Steel quick couplers
- 1/4" female flare x 1/4" 45° angle female flar
- 900 psi working pressure
- 3500 psi burst pressure



Part No.	Length (In.)	Price
16848*	48	\$171.10

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

CHARGING

AUTOMOTIVE

MANIFOLD



41345



Part No.	Description	Price
41345*	R134a Manifold, Auto Air Couplers	\$745.36

COUPLER, SNAP ON



21H

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



Part No.	Description	Price
21H	High Side Connector	\$87.66
21L	Low Side Connector	\$87.66

COUPLER, SNAP ON



QCH90



Part No.	Description	Price
QCH90	Quick Coupler, Automotive, High Side	\$40.30
QCL90	Quick Coupler, Automotive, Low Side	\$40.30

COUPLER, SNAP ON



41317

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	Price
41317*	High Side	\$78.46
41318*	Low Side	\$78.46



41337

COUPLER, SCREW ON

- Couplers interface with R-134a service ports
- Control valve for access to systems even at working pressures
- Integral safety sleeve holds coupler securely to service port



Part No.	Description	Price
41337*	High Side, 1/4" MFL	\$112.00
41338*	Low Side, 1/4" MFL	\$112.00



19161

COUPLER



Part No.	Connection Size (In.)	Price
19157*	14 mm Male x 1/4" Male Flare	\$40.94
19158*	1/2 Acme Fem x 14 mm Male	\$70.74
19161*	1/2 Acme Male x 1/4 Fem Flare	\$30.16
19162*	1/2 Acme Male x 1/4 Fem Flare Hex	\$30.16
19165R*	1/2 Acme Fem x 1/4 Male Flare	\$33.84

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HOSE

All assemblies and components made in USA

Quality brass fittings to ensure longer life and safety

GY5 refrigerant hose, manufactured by Goodyear Engineered Products

Nylon, veneer-lined hose for low permeation applications meeting EPA requirement

Double-barrier design of black, neoprene rubber for additional permeation protection

Braided Kevlar yarn added for strength with a nitrile/PVC rubber cover for protection

-20°F to 180°F (-29°C to 82°C) temperature range

Suitable for R12, R134a, R22, R500, R502, R404A, R410A and HCFC blends

UL approved R410A assemblies available - one hose for CFC, HCFC and HFC refrigerants



N60RBY

STANDARD HOSE, 1/4"

- 1/4" I.D. hose
- 1/4" female flare x 1/4" female flare 4
- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Color	Length (In.)	Price
N36RBY*	Red, Blue, Yellow (Set of 3)	36	\$105.82
N36Y*	Yellow	36	\$36.00
N36R*	Red	36	\$36.00
N48RBY*	Red, Blue, Yellow (Set of 3)	48	\$118.24
N36B*	Blue	36	\$36.00
N60RBY*	Red, Blue, Yellow (Set of 3)	60	\$133.26
N48Y*	Yellow	48	\$40.20
N72RBY*	Red, Blue, Yellow (Set of 3)	72	\$149.86
N48R*	Red	48	\$40.20
N96RBY	Red, Blue, Yellow (Set of 3)	96	\$174.56
N48B*	Blue	48	\$40.20
N60Y*	Yellow	60	\$45.32
N60R*	Red	60	\$45.32
N60B*	Blue	60	\$45.32
N72Y*	Yellow	72	\$50.98
N72R*	Red	72	\$50.98
N72B*	Blue	72	\$50.98
N96Y*	Yellow	96	\$62.68
N96R	Red	96	\$59.54
N96B	Blue	96	\$59.54
N144Y*	Yellow	144 (12')	\$89.00
N144R*	Red	144 (12')	\$85.34
N144B	Blue	144 (12')	\$85.34
N300Y*	Yellow	300 (25')	\$170.14
N300R	Red	300 (25')	\$161.64
N300B	Blue	300 (25')	\$161.64
N600Y*	Yellow	600 (50')	\$299.90
N600R	Red	600 (50')	\$284.90
N600B	Blue	600 (50')	\$284.90



STANDARD HOSE, 3/8"

- 3/8" I.D. hose
- 3/8" female flare x 3/8" female flare 4
- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Color	Length (In.)	Price
N3836R	Red	36	\$60.44
N3836B	Blue	36	\$60.44
N3836Y	Yellow	36	\$60.44
N3848R	Red	48	\$67.90
N3848B	Blue	48	\$67.90
N3848Y	Yellow	48	\$67.90
N3860R	Red	60	\$74.84
N3860B	Blue	60	\$74.84
N3860Y*	Yellow	60	\$78.76
N3872R	Red	72	\$82.46
N3872B	Blue	72	\$82.46
N3872Y*	Yellow	72	\$86.80
N3896R	Red	96	\$96.00
N3896B	Blue	96	\$96.00
N3896Y	Yellow	96	\$96.00
N38144R	Red	144 (12')	\$125.90
N38144B	Blue	144 (12')	\$125.90
N38144Y	Yellow	144 (12')	\$125.90
N38300R	Red	300 (25')	\$216.66
N38300B	Blue	300 (25')	\$216.66
N38300Y	Yellow	300 (25')	\$216.66
N38600R	Red	600 (50')	\$391.16
N38600B	Blue	600 (50')	\$391.16
N38600Y	Yellow	600 (50')	\$391.16
N3836RBY	Red, Blue, Yellow (Set of 3)	36	\$176.76
N3848RBY	Red, Blue, Yellow (Set of 3)	48	\$198.64
N3860RBY	Red, Blue, Yellow (Set of 3)	60	\$218.90
N3872RBY	Red, Blue, Yellow (Set of 3)	72	\$241.24
N3896RBY	Red, Blue, Yellow (Set of 3)	96	\$280.80



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

HOSE



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 4

- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibilit



Part No.	Color	Length (In.)	Price
NBV36R*	Red	36	\$76.20
NBV36B*	Blue	36	\$76.20
NBV36Y*	Yellow	36	\$76.20
NBV48R	Red	48	\$74.10
NBV48B	Blue	48	\$77.44
NBV48Y	Yellow	48	\$74.10
NBV60R*	Red	60	\$89.18
NBV60B*	Blue	60	\$89.18
NBV60Y*	Yellow	60	\$89.18
NBV72R*	Red	72	\$95.94
NBV72B*	Blue	72	\$95.94
NBV72Y*	Yellow	72	\$95.94
NBV96R	Red	96	\$104.00
NBV96B	Blue	96	\$104.00
NBV96Y	Yellow	96	\$104.00
NBV36RBY	Red, Blue, Yellow (Set of 3)	36	\$212.10
NBV48RBY	Red, Blue, Yellow (Set of 3)	48	\$219.54
NBV60RBY*	Red, Blue, Yellow (Set of 3)	60	\$262.20
NBV72RBY*	Red, Blue, Yellow (Set of 3)	72	\$282.10
NBV96RBY	Red, Blue, Yellow (Set of 3)	96	\$304.20

BALL VALVE HOSE, INTEGRAL, 3/8"

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

- 3/8" I.D. hose
- 3/8" female flare x 3/8" female flare 4
- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibilit



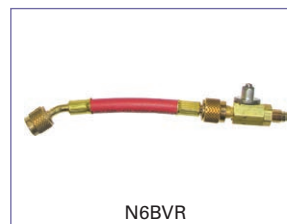
Part No.	Color	Length (In.)	Price
NBV3836R	Red	36	\$95.84
NBV3836B	Blue	36	\$95.84
NBV3836Y	Yellow	36	\$95.84
NBV3848R	Red	48	\$102.26
NBV3848B	Blue	48	\$102.26
NBV3848Y	Yellow	48	\$102.26
NBV3860R	Red	60	\$109.24
NBV3860B	Blue	60	\$109.24
NBV3860Y	Yellow	60	\$109.24
NBV3872R	Red	72	\$115.46

Continued...

BALL VALVE HOSE, INTEGRAL, 3/8" (CONT'D.)



Part No.	Color	Length (In.)	Price
NBV3872B	Blue	72	\$115.46
NBV3872Y	Yellow	72	\$115.46
NBV3896R	Red	96	\$141.34
NBV3896B	Blue	96	\$141.34
NBV3896Y	Yellow	96	\$141.34
NBV3836RBY	Red, Blue, Yellow (Set of 3)	36	\$280.34
NBV3848RBY	Red, Blue, Yellow (Set of 3)	48	\$299.14
NBV3860RBY	Red, Blue, Yellow (Set of 3)	60	\$319.54
NBV3872RBY	Red, Blue, Yellow (Set of 3)	72	\$337.76
NBV3896RBY	Red, Blue, Yellow (Set of 3)	96	\$413.40



BALL VALVE HOSE, EXTERNAL, 1/4"

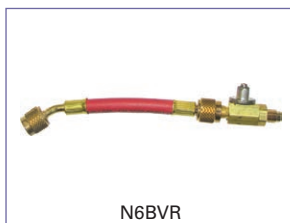
Premium refrigerant charging/vacuum hose with positive shut-off ball valve end.

- 1/4" I.D. hose
- 1/4" ball valve
- 1/4" male flare x 1/4" female flare 4

- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Color	Length (In.)	Price
N6BVR*	Red	6	\$53.72
N6BVB*	Blue	6	\$51.54
N6BV*	Yellow	6	\$53.72
N12BVR	Red	12	\$54.50
N12BVB	Blue	12	\$54.50
N12BVY	Yellow	12	\$54.50
N18BVR	Red	18	\$58.86
N18BVB	Blue	18	\$58.86
N18BVY	Yellow	18	\$58.86
N24BVR	Red	24	\$62.16
N24BVB	Blue	24	\$62.16
N24BVY	Yellow	24	\$62.16
N36BVR	Red	36	\$67.90
N36BVB	Blue	36	\$67.90
N36BVY	Yellow	36	\$67.90
N60BVR	Red	60	\$78.90
N60BVB	Blue	60	\$78.90
N60BVY	Yellow	60	\$78.90
N6BVRBY*	Set of 3 (Red, Blue, Yellow)	6	\$157.90
N12BVRBY*	Red, Blue, Yellow (Set of 3)	12	\$168.68
N18BVRBY	Red, Blue, Yellow (Set of 3)	18	\$172.16
N24BVRBY	Red, Blue, Yellow (Set of 3)	24	\$181.84
N36BVRBY	Red, Blue, Yellow (Set of 3)	36	\$198.64
N60BVRBY	Red, Blue, Yellow (Set of 3)	60	\$230.80



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 4

N6BVR

- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Color	Length (In.)	Price
N386BVR	Red	6	\$76.06
N386BVB	Blue	6	\$76.06
N386BVY	Yellow	6	\$76.06
N3812BVR	Red	12	\$81.26
N3812BVB	Blue	12	\$81.26
N3812BVY	Yellow	12	\$81.26
N3818BVR	Red	18	\$82.94
N3818BVB	Blue	18	\$82.94
N3818BVY	Yellow	18	\$82.94
N3824BVR	Red	24	\$89.00
N3824BVB	Blue	24	\$89.00
N3824BVY	Yellow	24	\$89.00
N3836BVR	Red	36	\$95.00
N3836BVB	Blue	36	\$95.00
N3836BVY	Yellow	36	\$95.00
N3860BVR	Red	60	\$119.06
N3860BVB	Blue	60	\$119.06
N3860BVY	Yellow	60	\$119.06
N386BVRBY	Red, Blue, Yellow (Set of 3)	6	\$222.50
N3812BVRBY	Red, Blue, Yellow (Set of 3)	12	\$237.74
N3818BVRBY	Red, Blue, Yellow (Set of 3)	18	\$242.60
N3824BVRBY	Red, Blue, Yellow (Set of 3)	24	\$260.34
N3836BVRBY	Red, Blue, Yellow (Set of 3)	36	\$277.90
N3860BVRBY*	Red, Blue, Yellow (Set of 3)	60	\$364.76



ANTI BLOWBACK HOSE, 1/4"

Eco-safe hose with shut-off fitting on one end.

- 1/4" female flare x 1/4" female flare 4
- Max. working pressure: 800 psi
- Burst: 4000 psi

NAB60R



Part No.	Color	Length (In.)	Price
NAB12R*	Red	12	\$40.94
NAB12B*	Blue	12	\$40.94
NAB36Y*	Yellow	36	\$50.44
NAB36R*	Red	36	\$50.44
NAB36B*	Blue	36	\$50.44
NAB48Y*	Yellow	48	\$55.92
NAB48R*	Red	48	\$55.92
NAB48B*	Blue	48	\$55.92
NAB60Y*	Yellow	60	\$60.68

Continued...

ANTI BLOWBACK HOSE, 1/4" (CONT'D.)



Part No.	Color	Length (In.)	Price
NAB60R*	Red	60	\$60.68
NAB60B*	Blue	60	\$60.68
NAB72Y*	Yellow	72	\$67.80
NAB72R*	Red	72	\$67.80
NAB72B*	Blue	72	\$67.80
NAB96Y*	Yellow	96	\$81.32
NAB96R	Red	96	\$77.26
NAB96B	Blue	96	\$77.26
NAB36RBY*	Red, Blue, Yellow (Set of 3)	36	\$147.66
NAB48RBY*	Red, Blue, Yellow (Set of 3)	48	\$163.74
NAB60RBY*	Red, Blue, Yellow (Set of 3)	60	\$177.64
NAB72RBY*	Red, Blue, Yellow (Set of 3)	72	\$198.28
NAB96RBY*	Red, Blue, Yellow (Set of 3)	72	\$237.94

HEAVY DUTY CHARGING/VACUUM HOSE

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



NHD1460

HEAVY DUTY HOSE, 1/4"

- 1/4" I.D. hose heavy duty black hose
- 1/4" female flare x 1/4" female flare 4
- Max. working pressure: 800 psi
- Burst: 4000 psi
- U.L. Recognized, suitable for R12, R22, R502, R134a, R410A, and HCFC blends



Part No.	Length (In.)	Price
NHD1436*	36	\$53.36
NHD1448*	48	\$60.48
NHD1460*	60	\$69.08
NHD1472*	72	\$76.58
NHD1496*	96	\$91.56
NHD14144*	144 (12')	\$127.20
NHD14300*	300 (25')	\$228.44
NHD14600	600 (50')	\$407.00
NHD141200	1200 (100')	\$787.86

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

CHARGING

HEAVY DUTY CHARGING/VACUUM HOSE



NHD3860S

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.	Length (In.)	Price
NHD3836S*	36	\$75.30
NHD3848S*	48	\$86.44
NHD3860S*	60	\$97.96
NHD3872S*	72	\$105.26
NHD3896S	96	\$120.60
NHD38144S	144 (12')	\$162.80
NHD38300S*	300 (25')	\$316.88
NHD38600S*	600 (50')	\$595.22
NHD381200S	1200 (100')	\$1,090.76



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.	Length (In.)	Price
NHD1236S	36	\$106.80
NHD1248S	48	\$117.00
NHD1260S*	60	\$139.98
NHD1272S*	72	\$156.62
NHD1296S*	96	\$189.88
NHD12144S*	144 (12')	\$256.76
NHD12300S*	300 (25')	\$473.32
NHD12600S	600 (50')	\$845.66
NHD121200S	1200 (100')	\$1,635.60



NHD12601

HEAVY DUTY VACUUM HOSE, 1/2"

- Straight female flare connectio
- Max working pressure: 640 PSI
- Burst: 3200 PSI
- U.L. Recognized



Part No.	Length (In.)	Price
NHD12601*	1/4 FFL x 1/2 FFL Straight, 60" L	\$147.30
NHD12602*	1/4 FFL x 3/8 FFL Straight, 60" L	\$150.40



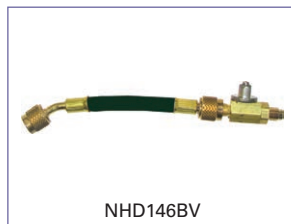
NHD38601

HEAVY DUTY VACUUM HOSE, 1/2"

- 1/4 FFL x 3/8 FFL Straight
- Max working pressure: 800 PSI
- Burst: 4000 PSI
- U.L. Recognized



Part No.	Length (In.)	Price
NHD38601*	60	\$106.18
NHD38721*	72	\$117.70



NHD146BV

BALL VALVE HOSE, EXTERNAL, 1/4"

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

- 1/4" ball valve
- 1/4" male flare x 1/4" female flare 4

- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Length (In.)	Price
NHD146BV*	6	\$64.88
NHD1412BV	12	\$71.74
NHD1418BV	18	\$76.24
NHD1424BV	24	\$78.30
NHD1436BV*	36	\$90.46
NHD1448BV*	48	\$97.04



NHD386BV

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 flar

- Max. working pressure: 800 psi
- Burst: 4000 psi



Part No.	Length (In.)	Price
NHD386BV	6	\$84.16
NHD3812BV	12	\$92.20
NHD3818BV	18	\$96.34
NHD3824BV	24	\$102.60
NHD3836BV	36	\$109.74
NHD3860BV*	60	\$131.40



nhd1436bv

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 4

- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibilit



Part No.	Length (In.)	Price
NHDBV1436	36	\$88.34
NHDBV1448	48	\$92.66
NHDBV1460*	60	\$110.92
NHDBV1472*	72	\$119.52
NHDBV1496	96	\$121.86
NHDBV14144*	144	\$160.82



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 flar

- Max. working pressure: 800 psi
- Burst: 4000 psi
- 8" length of hose between ball valve and fitting for easy accessibilit



Part No.	Length (In.)	Price
NHDBV3836*	36	\$123.18
NHDBV3848	48	\$152.76
NHDBV3860*	60	\$168.12
NHDBV3872*	72	\$182.74
NHDBV3896	96	\$187.50

HOSE ACCESSORIES



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	Price
NH06KIT*	Gasket, Seal Cap Kit	\$41.20
NABKIT*	Anti Blow-back Repair Kit	\$12.82
NABORING*	Replacement O-Ring for Anti-Blow Back Fittings (5/pk)	\$12.24
NBVRK	Shut-Off Valve Rebuild Kit for 1/4" Ball Valve	\$12.92



19020

HOSE COUPLER GASKET



Part No.	Use with	Pkg Qty	Price
19020*	1/4" Hose Coupler	10	\$11.86
19011*	3/8" Hose Coupler	10	\$36.06
19015*	1/2" 5/8" Hose Coupler	10	\$30.04



NH03016

HOSE ACCESSORIES



Part No.	Description	Pkg Qty	Price
NH03016*	Valve Core	5	\$8.60
NH03016-25*	Valve Core	25	\$31.44
NH05001	1/4" Hose Gasket	10	\$7.16
NH01013	3/8" Hose Gasket	10	\$18.54
NH01012	1/2" Hose Gasket	10	\$22.32
NH05007*	Hose Core Depressor	10	\$8.86



NABS

ANTI-BLOWBACK HOSE ADAPTER

Adapters to retrofit regular hose t anti-blowback.



Part No.	Connection Type	Connection Size (In.)	Price
NABS*	Straight	1/4 FFL x 1/4 MFL	\$32.34
NAB45*	45°	1/4 FFL x 1/4 MFL	\$32.34
NAB90*	90°	1/4 FFL x 1/4 MFL	\$32.34
NAB516S*	Straight	5/16 FFL x 1/4 MFL	\$30.88
NAB51645*	45°	5/16 FFL x 1/4 MFL	\$32.72
NAB51690*	90°	5/16 FFL x 1/4 MFL	\$32.72

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

CHARGING

HOSE ACCESSORIES



N516S

HOSE ADAPTER

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



Part No.	Connection Type	Connection Size (In.)	Price
N516S*	Straight	5/16 FFL x 1/4 MFL	\$17.00
N51645*	45°	5/16 FFL x 1/4 MFL	\$21.64
N51690*	90°	5/16 FFL x 1/4 MFL	\$21.64



36192

CAN TAP VALVE

With side tap, handles slip around and close to pierce the can. Small inserts for use with lubricant cans. Check valve on side taps help prevent back pressure into can. Not for use with other refrigerants.



Part No.	Description	Price
36192*	R134a Can Tap Valve	\$55.56



QCH14

COUPLER



Part No.	Description	Price
QCH14	Quick Coupler, Automotive, Manual, High Side	\$69.78
QCL14	Quick Coupler, Automotive, Manual, Low Side	\$69.78



93834

CONTROL VALVE

- Charging, vacuum ball valves
- Full flow capacity



Part No.	Connection Size (In.)	Price
93834*	1/4 MFL x MFL	\$42.06
93844*	1/4 MFL x FFL	\$45.00
93846*	3/8 MFL x FFL	\$60.44
93848*	1/2 MFL x FFL	\$114.14



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	Price
18993*	Gas Retention Valve	\$48.66
19000*	Vacuum/Charge Valve	\$152.64



19301

VALVE OPENER



Part No.	Description	Price
19301*	Valve Opener (A)	\$23.24
19302*	CH14 Adjustable Valve Opener (B)	\$23.74



NBV14MM

SHUTOFF VALVE

Simple, effective ball shutoff valves. Prevents unnecessary venting.



Part No.	Description	Price
NBV14MM	1/4" MFL x 1/4" MFL	\$27.90
NBV14FM	1/4" MFL x 1/4" FFL	\$28.90
NBV38MM	3/8" MFL x 3/8" MFL	\$48.20
NBV38FM	3/8" MFL x 3/8" FFL	\$49.46



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.)	Price
A33000*	1/4 M Flare x 1/4 Q.C. Female	\$62.06



VCR146

VALVE CORE TOOL



Part No.	Description	Price
VCR146	1/4" Valve core tool with storage for six valve cores (valve cores included)	\$11.50



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	Price
A32008*	Valve Core Torque Tool	\$44.66



A31997

CORE REMOVER

5 gasket seal caps with core remover feature.



Part No.	Description	Price
A31997*	1/4" SAE	\$36.34



VCR1

CORE REMOVER



Part No.	Description	Price
VCR1	Core Removal Tool, 4 Cores	\$17.60



19105

DRUM ADAPTER, SWIVEL

- Finger tight adapters fit 125 and 145 lb. cylinders



Part No.	Connection Size (In.)	Price
19105*	3/4 NPS x 1/4 MFL	\$37.84
19106*	3/4 NPS x 3/8 MFL	\$47.66



MGAVCT

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.	Description	Price
MGAVCT*	1/4" MegaFlow™ Valve Core Removal Tool	\$111.00
MGAVCR*	5/16" MegaFlow™ Valve Core Removal Tool	\$111.00



MGABAS

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" hos
- Vacuum-certified hoses don't collapse or permeate
- Ultra-flexible for easy connections in tight space
- Rated to 20 microns



Part No.	Description	Price
MGABAS*	1/2" Black Hose with 1/4" Valve Core Removal Tool (MGAVCT)	\$216.50

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

VALVES



CRT

CORE REMOVAL TOOL

Extract and replace access core without removing charge from system.



Part No.	Description	Price
CRT*	1/4" Core Extractor	\$77.70
CD5555	CRT O-Ring Repair Kit	\$4.50



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.	Description	Price
18975*	Value Core Tool	\$134.74



69104

SUPERHEAT KIT

With the access valve, improved °F and °C digital thermometer and core extractor tool you can easily take an internal temperature reading for calculating system superheat.

- Read from -58°F to 302°F
- Extract schrader core without opening system



Part No.	Description	Price
69104*	Internal Superheat Kit Core Removal Tool	\$314.76



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	Price
A32100	Fits 3/16" to 7/8" OD hard tubing	\$125.04

COUPLERS



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.)	Price
QCE4*	1/4 QC x 1/4 M Flare 90°	\$19.34
QCE5*	5/16 QC x 1/4 M Flare 90°	\$23.46
QCS4*	1/4 QC x 1/4 M Flare	\$16.50
QC-S64*	3/8 QC x 1/4 MFL Less Depressor	\$25.36
QCS4A*	1/4 QC x 1/8 FPT	\$15.10
QCS4B*	1/4 QC x 1/4 FPT	\$22.80
QCS4A134A*	1/4 QC x 1/2 Male Acme (R134a)	\$25.84



19101

QUICK COUPLER, STRAIGHT



Part No.	Connection Size (In.)	Price
19101*	1/4 Fem Q.C. x 1/4 MFL	\$21.70
19102*	1/4 Fem Q.C. x 3/8 MFL	\$27.24
19104*	3/8 Fem Q.C. x 1/4 M. Flare	\$40.64
19110*	1/4 Fem Q.C. x 1/8 FPT	\$26.24
19120*	3/16 Fem Q.C x 1/4 MFL	\$56.04
19125*	1/8 Fem Q.C. x 1/4 M. Flare	\$35.86



19201

QUICK COUPLER, 90°



Part No.	Connection Size (In.)	Comments	Price
19201*	1/4 Fem Q.C. x 1/4 MFL	—	\$21.70
19202*	1/4 Fem Q.C. x 3/8 MFL	—	\$27.00
19210*	1/4 Fem Q.C. x 1/8 FPT	CH14 Opener	\$26.50

**QUICK COUPLER, SEALRIGHT™**

SealRight™ fittings automatically 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	Price
19109*	1/4 SealRight™ Straight x 1/4 MFL	Coupler, Straight	\$37.60
19209*	1/4 SealRight™ 90°F x 1/4 MFL	Coupler, 90°	\$38.34

Part No.	Description	Price
19037	O Rings, Pkg of 10	\$17.64
19040	Rebuild Kit	\$27.24

**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	Price
16C	Quick Connect, Straight	\$33.50
17C	Quick Connect, 90°	\$43.78
18C	Set of 2, 1 - 16C, 1 - 17C	\$74.18

A/C SERVICE 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.

Kit includes:

- Clutch type flaring tool: clutch driven feed screw; eccentrically mounted cone; created perfect, strong flares; ratchet drive in yoke; 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4"
- 6-in-1 metric torque wrench: ideal for installing mini-split systems; included are six interchangeable heads
- Imperial/Metric Hex Tools
- Valve core tool: 5/16" female fitting allows direct connection to mini-split service ports; 5/16" FMX 1/4" SAE Male
- Angled brass adapters: 5/16" Female x 1/4" SAE Male; 55° bend and swivel nut for added accessibility (2 pieces)
- Straight brass adapters: 5/16" Female x 1/4" SAE Male; Valve core in adapter (2 pieces)
- 5/16" brass caps: 5/16" Female; use on minisplit service ports (10 pieces)
- 13" large square tool bag: over 24 storage areas; comfortable molded handle



Part No.	Description	Price
TLB410AUR	Service Tool Kit	\$627.70

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)	Price
535C	1/4 FFL inlet x 1/4 MFL outlet	1/2 and larger	\$70.80

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

TUBING TOOL



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 surfac
 - Sold in a tool box for easy transportation
 - Tip guides the bit into the tube and forms a standard 45j 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° flar

RECTORSEAL

Part No.	Description	Price
87001	Pro-Fit™ flaring kit, includes size-inscribed flaring bits designed for 1/4, 3/8, 1/2, 5/8 and 3/4" tubing	\$221.84
87011	Pro-Fit™ swaging kit, includes 6 size-inscribed swaging bits: 1/4, 3/8, 1/2, 5/8, 3/4 and 7/8"	\$250.00



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° flar

IRP International Refrigeration Products

Part No.	Description	Price
AFT31634	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	\$128.40



CAP TUBE CUTTER

Supco

Part No.	Description	Price
CTP1	Cap Tube Cutter, Wire Stripper	\$14.66



FLARE/SWAGE KIT

Flares and swages. Converts quickly. Screw-type feed. Swivel-type swaging adapters and flarin cone are hardened steel chrome-finished for easy operation.

- Flares 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4" OD
- Swages: All except 1/8, 7/16 tubing
- 45° flar

Imperial
DEPENDABLE UNDER PRESSURE™

Part No.	Description	Price
275FSC	Flare/Swage Kit w/Cutter	\$329.04



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.

- Flares 3/16, 1/4, 5/16, 3/8, 1/2" OD tubing

Imperial
DEPENDABLE UNDER PRESSURE™

- 45° flar

Part No.	Description	Price
93FB	Double Flare Tool	\$134.92



UNIVERSAL GRABBER® FLARE

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

- 45° flar

Imperial
DEPENDABLE UNDER PRESSURE™

Part No.	Description	Price
525F	Grabber® Adjustable Size Flare Tool	\$151.82



FLARING TOOL, 45°

- Flares 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8" OD tubing

Imperial
DEPENDABLE UNDER PRESSURE™

Part No.	Description	Price
195FC	Wing Nut Yoke, Satin Finish Nickel-Chrome Plate	\$99.16



FLARING TOOL, ROL-AIR®

- 45° flar



Part No.	Description	Price
500FC	Block Detention Flare System	\$151.82



FLARE KIT

- 45° flare tool



Part No.	Description	Price
60240*	Two Bars, Includes 60230, 1/8 to 3/4" OD w/Case	\$253.06



FLARE/SWAGE KIT

This combination tool both 45° flare 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.	Description	Price
60440*	Flare Swage Kit	\$377.90



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.	Description	Price
60407*	Expander Kit with Handles; heads for 3/8", 1/2", 3/4", 7/8", 1-1/8" Tubing O.D.; Deburring Tool, Carrying Case, Instructions	\$798.54



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	Price
60230*	1/2", 5/8", 3/4" OD Only	\$194.86



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	Price
60295*	Flaring Tool with Eccentric Cone for 3/16" to 3/4" OD	\$259.14



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 flare

- Multifaceted burnishing cone rolls out smooth, polished flare seat that matches fitting
- Use in tight places



Part No.	Description	Price
60278*	Deluxe Flaring Tool	\$319.24



FLARE/BURNISH

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



Part No.	Description	Price
60270*	Flare/Burnish Tool	\$199.84

*WARNING: This item may 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



F6000

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.	Description	Price
F6000	Set of 6: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8"	\$163.36



174F

IMP® CUTTER

Designed for use in tight quarters where other cutters won't fit



Part No.	Cuts (OD In.)	Price
174F	3/8 to 1 1/8	\$60.90
TC1050	1/8 to 5/8	\$33.38
TC2050	3/16 to 7/8	\$53.10



ATC34

TUBE CUTTER

Made of hardened stainless steel



Part No.	Cuts (OD In.)	Price
ATC34	1/8 to 3/4	\$23.56
ATC118	1/8 to 1 1/8	\$49.26
ATC114	1/8 to 1 1/4	\$70.64
ATC158	1/8 to 1 5/8	\$92.02
ATC258	1/4 to 2 5/8	\$134.42



3950015

CUTTER PARTS



Part No.	Description	Price
3950015	Cutting Wheel Kit for ATC34	\$7.46
3950016	Cutting Wheel Kit for ATC118	\$8.70
3950017	Cutting Wheel Kit for ATC114	\$10.70
3950018	Cutting Wheel Kit for ATC158	\$10.70
3950025	Bearings for ATC34 , Pkg of 2	\$12.36
3950026	Bearings for ATC118 , Pkg of 2	\$14.80
3950027	Bearings for ATC114 , Pkg of 2	\$16.86
3950028	Bearings for ATC158 , Pkg of 2	\$16.88



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.	Cuts (OD In.)	Length (In.)	Price
206FB ¹	3/8 to 2 5/8	7 3/4	\$142.10
406FA ¹	2 to 4 1/8	11 1/4	\$282.58

¹Closed



75015

CUTTER PARTS



Part No.	Description	Price
75015	Cutting Wheel, General Purpose	\$9.70
75046	Cutting Wheel, Stainless, Hard Temper	\$6.22
32633	Cutting Wheel	\$7.76
74833	Cutting Wheel	\$28.58
74761	Cutting Wheel	\$18.06
76637	Constrictor Wheel	\$19.10
74762	Cutter Wheel Screw	\$3.94
26883	Cutter Wheel Screw	\$4.22
74834	Cutter Wheel Screw	\$12.80
77511	Cutter Wheel Screw	\$5.32
77507	Cutter Wheel Screw Lock Nut	\$3.10
7931801	Reamer Blade	\$15.70
8201501	Reamer Blade Screw	\$4.70



312FC

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.	Cuts (OD In.)	Length (In.)	Price
227FA	1/8 to 3/4	3 1/2	\$37.94
TC1000	1/8 to 1 1/8	5	\$64.22
TC1020 ¹	1/8 to 1 1/8	5	\$77.70
312FC	1/4 to 1 5/8	5 1/2	\$94.12

¹Includes constrictor



60102

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.	Cuts (OD In.)	Price
60101*	1/8 to 1 1/8	\$81.76
60102*	1/4 to 1 5/8	\$109.76
60103 ¹ *	1/4 to 1 1/8	\$110.60

¹Includes constrictor wheel



21011

CUTTER

- Won't walk while cutting; 4 roller tracking system keeps tube from threading
- Will not damage cutting wheel: full stop feed system keeps wheels and rollers from coming into contact



Part No.	Cuts (OD In.)	Description	Price
21011	1/8 to 1 3/8	Tubing cutter, 1/8 to 1 3/8"	\$86.32
21012	1/8 to 1 3/4	Tubing cutter, 1/8 to 1 3/4"	\$129.16
21013	1/8 to 2 5/8	Copper/Plastic, cutter, 1/8 to 2 5/8"	\$218.86
21192		Cutting wheel, copper tube, pkg of 2	\$38.92
21193		Cutting wheel, stainless steel, pkg of 2	\$31.14



21008

MINI CUTTER

Ergonomically designed tightening knob; makes it easier to adjust in tight spaces



Part No.	Cuts (OD In.)	Price
21008	1/8 to 5/8	\$36.16
21009	1/8 to 1	\$67.10
21010	1/8 to 1 1/8	\$59.90



60121

MINI CUTTER

- Wide body for easy grip
- Large rollers and flare cut-off groove



Part No.	Cuts (OD In.)	Price
60160*	1/8 to 5/8	\$34.66
60121*	1/8 to 7/8	\$44.00
60142*	1/4 to 1 1/8	\$106.90



HST78

HAND SWAGGING TOOL



Part No.	Description	Price
HST78	Hand swaging tool, tube expander; for tube size 3/8", 1/2", 3/4", 7/8"	\$67.14



93S08

SWAGE PUNCH

- Individual tools



Part No.	Tube Size (In.)	Price
93S04	1/4	\$13.10
93S05	5/16	\$13.76
93S06	3/8	\$18.52
93S08	1/2	\$18.90
93S10	5/8	\$23.10
93S12	3/4	\$24.70
93S14	7/8	\$25.96



60467

SWAGE PUNCH



Part No.	Tube Size (In.)	Price
60464*	1/4	\$26.50
60465*	5/16	\$28.70
60466*	3/8	\$28.70
60467*	1/2	\$29.96
60468*	5/8	\$31.26
60469*	3/4	\$40.84
60470*	7/8	\$56.14

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

TUBING TOOL

TUBING TOOL



94S

SWAGE TOOL SET



Part No.	Description	Price
94S	3 in 1 Swage, 1/2, 5/8, 7/8" OD Tubing	\$35.70
193S	4 Pc., 1/4, 3/8, 1/2, 5/8" OD Tubing, Vinyl Case	\$58.98
195SA	4 Punch, 1/4, 3/8, 1/2, 5/8", Flare Bar, Metal Case	\$227.80



60475

SWAGE SET

- Single tools are 6046 Series



Part No.	Tube Size (In.)	Description	Price
60475*	4 Punches 1/4, 3/8, 1/2, 5/8"	Pouch	\$91.50
60476*	5 Punches 1/4, 5/16, 3/8, 1/2, 5/8"	Pouch	\$108.80



BTB300

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	Price
BTB300	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8	Ratcheting Tube Bender w/ Reverse Bend: 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8" O.D. Tubing	\$441.78



101F

SPRING BENDER

- For soft copper and aluminum tubing



Part No.	Tube Size (In.)	Price
101F	Set of 6, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8" OD Tubing	\$54.90



367FH

3-WAY BENDER

Calibrated markings for making accurate left-hand, right and offset bends.



Part No.	Tube Size (In.)	Price
367FH	For 1/8, 3/16, 1/4 OD Tubing, 9/16 Bend Radius	\$58.84
368FH	For 3/16, 1/4, 5/16, 3/8" OD Tubing, 15/16" Bend Radius	\$69.64



370FH

LEVER BENDER

- Bends 3/16", 1/4", 3/8" and 1/2" O.D. tubing.
- 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	Price
370FH	3/16, 1/4, 3/8, 1/2	Lever tubing bender, 4 way	\$108.00



470FH

LEVER BENDER

TRIPLE HEAD 180° TUBE BENDER WITH ROTO-LOK™ INDEXING HANDLE

- Patented, quick-action indexing lever repositions two-stage handle midway through bend when both handles begin to meet. This feature allows easy fabrication of bends up

to 180° with reduced effort, better control and no crossing of handles!

- Optimum bending radius for each tubing size.
- Calibrated markings for making accurate left-hand, right-hand and offset bends.
- Compact design for working in tight spaces.
- Cushion grips for comfort and stability.
- Made of lightweight, die-cast aluminum.



Part No.	Tube Size (In.)	Description	Price
470FH	3/16, 1/4, 5/16, 3/8	Lever tubing bender, 4 way	\$117.04



LEVER BENDER

- For bending annealed copper and aluminum tubing only.



Part No.	Tube Size (In.)	Bend Radius (In.)	Price
364FHA04	1/4	9/16	\$115.70
364FHA06	3/8	15/16	\$118.10
364FHA08	1/2	1 1/2	\$213.26
364FHA10	5/8	2 1/4	\$337.48
364FHA12	3/4	3	\$421.88
364FHA14	7/8	3	\$625.90



LEVER BENDER

- Bends tubing to 180° angle



Part No.	Tube Size (In.)	Bend Radius (In.)	Price
60373*	1/4	9/16	\$85.36
60374*	5/16	11/16	\$108.24
60375*	3/8	15/16	\$110.96
60377*	1/2	1 1/2	\$155.44
60378*	5/8	2 1/4	\$207.40
60379*	3/4	3	\$243.56
60380*	7/8	3	\$272.20
60390*	1/4, 5/16, 3/8	15/16	\$74.46



RATCHET THREADER SETS

All matched threader/sets include die heads, ratchet assembly, ratchet handle, and alloy dies. All threader sets use same 12-R dies in die head.

- For NPT threads



Part No.	Pipe Capacity (In.)	For Threader Type	Price
36345	1/2 - 1	00-R	\$534.42



DEBURRER

- Deburring tool with swivel tip, two spare tips in handle



Part No.	Description	Price
ADT100	Deburring Tool	\$41.76
3950019	Blade for ADT100	\$12.36



DEBURRER

- Pocket size reamer deburrs nominal 1/4" or larger tubing and fitting
- Freely rotating, hardened steel blade holds its edge in both copper and ABS/PVC plastic



Part No.	Description	Price
R308	Deburring Tool	\$15.02



DEBURRER



Part No.	Description	Price
60163*	Deburring Tool	\$79.44
60164*	Replacement Blade	\$28.80



DEBURRER/REAMER



Part No.	Description	Price
IOTR1	Deburring/reaming tool, ID/OD	\$32.00



TEST PLUG

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.)	Price
140F04	1/4	\$19.30
140F06	3/8	\$19.80
140F08	1/2	\$21.30
140F10	5/8	\$25.50
140F12	3/4	\$25.70
140F14	7/8	\$37.70
140F18	1 1/8	\$45.90

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

TUBING TOOL

TUBING TOOL



PINCH-OFF

Temporarily closes tubing for service, then reopens to allow flow.



Part No.	Tube Size (In.)	Price
105FF	For 1/4, 5/16, 3/8, 1/2 OD Tubing	\$70.64

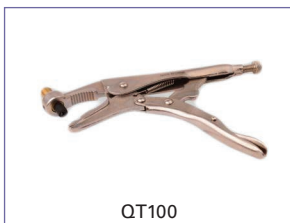


ACCESS TOOL

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	Price
SF4311	"FasTap" Tube Piercing Pliers	\$53.16
SF4314	Replacement Needle	\$6.50



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 size from 3/16" to 7/8" O.D. hard tubing. Replaceable needle.



Part No.	Description	Price
QT100*	Vise Grip Connection Tool	\$117.48
QT100N*	Replacement Needle	\$12.76



PVC CUTTER

- Cuts to 1 5/8" OD
- 70080: replacement blade



Part No.	Cuts (OD In.)	Description	Price
70078	1 5/8"	PVC Pipe Cutter	\$33.08
70080	1 5/8"	Replacement Blade	\$15.38



DIE HEAD, COMPLETE

- All heads right hand threads
- All dies alloy steel
- NPT threads



Part No.	For Threader Type	Nominal Pipe Size (In.)	Price
37390	12-R	1/2	\$215.58
37405	12-R	1 1/4	\$274.28
37410	12-R	1 1/2	\$302.38
37415	12-R	2	\$302.38



PIPE DIE

- Dies are alloy steel, right hand threads
- NPT threads
- For 00R, 111R, 12R, 0R, 11R ratchet threaders



Part No.	Nominal Pipe Size - TPI (In.)	Price
37825	1/2 - 14	\$96.80
37850	2 - 11 1/2	\$127.72

SCREWDRIVER



CABINET TIP, ROUND SHANK

- Narrow 3/16" cabinet tip permits blade access where space is limited



Part No.	Blade Width (In.)	Shank Length (In.)	Price
601-3*	3/16	3	\$16.86
601-4*	3/16	4	\$17.28
601-6*	3/16	6	\$17.94
601-8*	3/16	8	\$20.58
601-10*	3/16	10	\$23.58



600-1

KEYSTONE, ROUND SHANK

- Hex bolster (not available 600-1) reinforces shank for hard use and allows wrench assisted turning
- 6026INS insulated screwdriver exceeds IEC60900, ASTM F1505 standards, 1000 volt



Part No.	Insulated	Blade Width (In.)	Shank Length (In.)	Price
600-1*	No	1/4	1 1/2	\$16.50
6024*	No	1/4	4	\$21.16
6026*	No	5/16	6	\$25.86
602-8*	No	3/8	8	\$34.02
602-10*	No	3/8	10	\$40.08
602-12*	No	3/8	12	\$45.06



600-6

KEYSTONE, SQUARE SHANK

- Heavy duty square shank for wrench assisted turning
- Bolster reinforces shank for hard use



Part No.	Blade Width (In.)	Shank Length (In.)	Price
600-4*	1/4	4	\$22.62
600-6*	5/16	6	\$26.46
6008*	3/8	8	\$36.46
600-12*	1/2	12	\$44.52



603-1

PHILLIPS

- Tips are precision-machined to provide a more consistent geometric symmetry than conventional phillips tipped screwdrivers
- Accurate fit and torque without slippage

- Round shank
- 6036INS insulated screwdriver exceeds IEC60900, ASTM F1505 standards, 1000 volt



Part No.	Shank Length (In.)	Insulated	Tip Number	Price
603-1*	1 1/2	No	2	\$16.78
6033*	3	No	1	\$16.86
603-4*	4	No	2	\$18.42
603-6*	6	No	3	\$25.86
6037*	7	No	2	\$21.70
603-10*	10	No	2	\$24.66



NRE10653

SLOTTED



Part No.	Insulated	Blade Width (In.)	Length (In.)	Price
NRE80105	Yes	9/64	7	\$18.50
NRE10653	No	9/64	7 3/4	\$13.80
NRE47758	No	1/8	9 3/4	\$16.30
NRE48250	Yes	9/64	9 3/4	\$22.20



NRE10776

PHILLIPS



Part No.	Head Size	Insulated	Length (In.)	Price
NRE10776	1	No	7 3/4	\$13.00



85075

CUSHION GRIP SET

General-purpose selection of the most frequently used screwdrivers. Each set includes a reusable plastic container.



Part No.	Includes	Description	Price
85075*	1 Phillips-Tip No. 2	5-Piece Set	\$104.38
85076*	2 Phillips-Tip No. 1 & No. 2	7-Piece Set	\$126.16
85078*	4 Phillips-Tip No. 1, No. 2 (1 1/2" & 4"), No. 3	8-Piece Set	\$155.02



85484

MINIATURE CUSHION GRIP

Set of 4 includes:
604-3; #0 Phillips, 3" shank, 5 3/4" overall
606-2; 1/16" keystone slotted, 2" shank, 4 3/4" overall
607-3; 3/32" cabinet slotted, 3" shank, 5 3/4" overall

608-3; 1/8" cabinet slotted, 3" shank, 5 3/4" overall



Part No.	Description	Price
85484*	Miniature Cushion Grip, 3 slotted, 1 phillips	\$53.40

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

HAND TOOLS

SCREWDRIVER

MINIATURE, ROUND SHANK

Precision formed tip provides an exact fit for small screw applications



606-2



Part No.	Blade Width (In.)	Shank Length (In.)	Description	Price
606-2*	1/16	2	Keystone tip	\$14.70
6083*	1/8	3	Cabinet Tip	\$15.36

ADJUSTABLE SCREWDRIVER

- Removable shaft adjusts within 4" to 8" range for numerous length combinations
- Blades feature #2 Phillips and 1/4" Slotted tip for multiple screwdrivers in one tool



32751

- Proprietary system securely holds blade - as durable as a traditional Klein fixed blade screwdriver
- Press down to extend or lengthen the shaft
- Push up to retract or shorten the shaft
- Cushion-Grip handle for maximum comfort and torque



Part No.	Insulated	Blade Width (In.)	Shank Length (In.)	Price
32751	No	1/4	4 to 8	\$45.16

MULTI-BIT ADJUSTABLE LENGTH SCREWDRIVER

- Industrial-strength bits that are conveniently housed in the handle
- Adjust the length of the blade for easier access
- Impact rated blade can be removed for use as an impact driver attachment



32308

- Stainless steel bit holder contains powerful rare earth magnets for securing bits and fasteners
- Cushion-Grip handle for maximum comfort
- Spin cap for optimum and precise control



Part No.	Description	Price
32308	8-in-1, stubby, includes phillips bits: #1, #2, #3, Slotted bits: 3/16, 1/4, square bits: #1, #2	\$31.48
32303	14-in-1, includes 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	\$41.98

MULTI-BIT ADJUSTABLE LENGTH SCREWDRIVER

The 15-in-1 Ratcheting Screwdriver's durable ratcheting mechanism allows for faster and easier all-day driving. With the on-board storage of 14 common bits and a 1/4" nut driver, this is your new everyday screwdriver.



32305

The 27-in-1 T amperproof Screwdriver offers 26 specialty bits conveniently stored right in the handle and an integrated 1/4" nut driver. Powerful rare earth magnets in the barrel secure the bits and fasteners. Both screwdrivers feature industrial-strength bits as well as Cushion-Grip handles with spin caps for outstanding comfort and control.



Part No.	Description	Price
32305	15-in-1 Ratcheting Screwdriver, includes Phillips (#0, #1, #2, #3), Slotted (3/16", 1/4"), Square (#1, #2), Torx® (T10, T15, T20, T25), and Combo (#1, #2) bits	\$41.98
32307	27-in-1 Multi-Bit Tamperproof Screwdriver, includes hex bits (3/32", 7/64", 1/8", 9/64", 5/32", 3/16"), Torx® bits (T7, T8, T10, T15, T20, T25, T27, T30, T40), TORQ-SET® (TS6, TS8, TS10), Tamperproof Spanner (SP4, SP6, SP8, SP10)	\$52.48

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



32477

- 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



Part No.	Description	Price
32477*	10-in-1 Multi Bit	\$35.86
32558*	10-in-1 Ratcheting Multi Bit	\$51.64
32527*	11-in-1 Multi Bit, Schrader® Valve Core Tool	\$41.28
32483*	Replacement Bits: 2 Phillips - 1/4" Slotted (2 Pack)	\$9.28

MULTI-BIT, RATCHETING STUBBY

- Ratcheting mechanism allows user to work faster and with more efficiency
- Four different screwdriver bits including 1 and 2 Phillips and 1/4" and 3/16" Slotted tips



32593

- Includes 1/4" and 5/16" nut drivers
- Cushion-Grip handle for maximum torque and comfort



Part No.	Description	Price
32593*	Ratcheting Stubby 6-in-1 Screwdriver	\$34.56

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

**MULTI-BIT**

Includes one of each:
1 and 2 phillips, 3/16" and 1/4" slotted,
2 and 3 recess, 1/4", 5/16" and 3/8"
nut driver

LENOX

Part No.	Description	Price
23932	9-in-1 Multi Bit	\$24.14

**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

LUTZ

Part No.	Description	Price
26011	6-in-1	\$9.98
3116PH	Replacement Bit, 1/4" Hex	\$3.20
3112SL	Replacement Bit, 5/16" Hex	\$3.20

**MULTI-BIT, STUBBY**

- Interchangeable shaft holds 4 universal tips and converts to 2 nut driver sizes
- Compact design allows easy access to tight work spaces
- Cushion-Grip handles provide greater torque and comfort.

- Contains: 3/16" and 1/4" slotted, 1 and 2 Phillips, 1/4" and 5/16" nut drivers

KLEIN TOOLS

Part No.	Description	Price
32561*	Stubby Multi-Bit Screwdriver	\$25.42

**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

KLEIN TOOLS

Part No.	Description	Price
32614*	4-in-1 Electronics Screwdriver, with interchangeable barrel (both a short and long side)	\$29.97

**8-IN-1 INSULATED INTERCHANGEABLE SCREWDRIVER SET**

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

- Includes tip sizes: two #2 Phillips, two 1/4-Inch Slotted, one #1 Phillips, one #1 Square, one #2 Square, and one 3/16-Inch Slotted
- Securely and easily release the blade with a quick twist of the lock collar
- Interchangeable blades with a slim-tip to fit tight terminal block
- Handle and blade have a 1000-Volt insulation rating and meets or exceeds ASTM F1505 standard for insulation
- A layer of orange impact and flame resistant insulation protects from electric shock
- Cushion-Grip handles for greater torque and comfort
- Double-ended blades have a 3.5-Inch shaft length, single-ended blades have 5.75-Inch shaft length
- Durable, carrying roll pouch keeps the set organized and protected

KLEIN TOOLS

Part No.	Description	Price
32288	8-in-1 Insulated Interchangeable Screwdriver Set	\$104.98

**11-IN-1 MAGNETIC SCREWDRIVER / NUT DRIVER**

- Integrated screwdriver / nut driver magnetic barrel holds 8 popular tips and converts to 3 nut driver sizes
- Strong, rare earth magnets securely hold bits and fasteners

- Industrial strength heat treated bits
- Interchangeable shaft for quick and easy switch out
- Cushion-Grip handle for greater torque and comfort
- Includes tips: 3/8-Inch, 5/16-Inch and 1/4-Inch nut drivers, #1 and #2 Phillips, 1/4-Inch and 3/16-Inch slotted, T10 and T15 TORX®, and #1 and #2 square recess
- Blast-finished bit tips provide a firm hold an reduce cam-out

KLEIN TOOLS

Part No.	Description	Price
32500MAG	11-in-1 Magnetic Screwdriver / Nut Driver	\$41.98

*WARNING: This item may 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



14-IN-1 PRECISION SCREWDRIVER/ NUT DRIVER

- Precision screwdriver and integrated nut drivers include 14 of the most common sizes in one tool
- Spin cap offers optimum and precise control

- Industrial-strength heat treated bits
- Cushion-Grip handle for maximum comfort
- Includes sizes: Phillips #00, #0; Slotted 3/32", 1/8"; Tamperproof Torx® T7, T8, T10, T15; Hex 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"
- Interchangeable steel shaft for fast, easy bit changes
- Sizes are etched into integrated barrels and bits
- TORX® is a registered trademark of Acument Intellectual Properties, LLC



Part No.	Description	Price
32314	14-in-1 Precision Screwdriver/Nut Driver	\$31.48



ALL-IN-1 PRECISION SCREWDRIVER SET WITH CASE

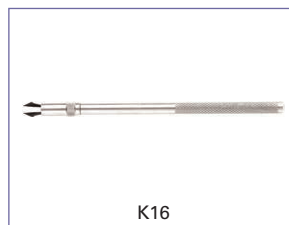
Precision screwdriver set includes 39 bits for various applications including repair of most Apple® products

- 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
- Triangle Bits: #2, #3
- Pentalope Bits: P2, P5
- Tri-Wing® Bits: Y000, Y0, Y1
- Stand Off Bits
- Spanner Bits: #4, #6
- 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.	Description	Price
32717	All-in-1 Precision Screwdriver Set with Case	\$62.98



SCREW-HOLDING SCREWDRIVER

- Blade separates to hold the fastener
- Not designed for torquing or tightening
- Positive gripping action holds and starts Phillips screws in awkward, hard-to-reach places



Part No.	Description	Price
K16*	7" Phillips-Tip Internal Screw-Holding Screwdriver	\$20.56
SK234*	3-Piece Slotted Screw-Holding Screwdriver Set (3/16", 1/4", 5/16")	\$60.94



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	Price
6124*	7 3/4" Long, 1/8" Shank Tip Width	\$17.44



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	Price
6024DD*	Slotted Demolition Screwdriver, 4" Long Shank, 1/4" Shank Tip Width	\$32.16
6027DD*	Slotted Demolition Screwdriver, 7" Long Shank, 5/16" Shank Tip Width	\$43.26



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	Price
32596*	Screwdriver/Nut Driver, includes: 1/4" and 3/8" hollow nut drivers, 2 Phillips, 1/8" and 1/4" slotted screwdriver tips	\$54.60



MAGNETIZER / DEMAGNETIZER

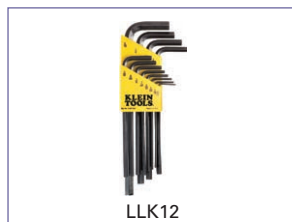
- Magnetizes and demagnetizes screwdriver tips and bits using powerful rare-earth magnets
- Single swipe operation provides immediate magnetization and demagnetization

- 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



Part No.	Description	Price
MAG2*	Magnetizer / Demagnetizer	\$20.94

HEX

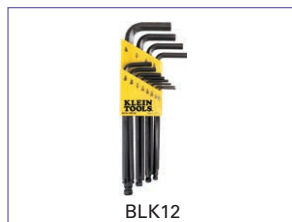


HEX KEY SET, L, HEX END

Caddy contains a unique locking feature and marked slots for each key.



Part No.	Nb. of Tools	Description	Price
LLK12*	12	0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	\$24.46



HEX KEY SET, L, BALL END

- Each set contains a unique locking feature and marked slots for each key
- Ball end works on angles up to 30°
- Durable caddy keeps hex keys organized



Part No.	Nb. of Tools	Description	Price
BLK12*	12	0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	\$49.60



PRO FOLDING HEX KEY SET, 11 FRACTIONAL INCH-SIZED KEYS

- Pro Folding Hex Key Set with 11 extended-reach blades
- Key sizes: 1/2, 3/8, 5/16, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, and 3/32-Inch

- 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	Description	Price
70550	11	11 Keys: 1/2, 3/8, 5/16, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, and 3/32"	\$30.58



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.	Description	Price
70579*	5 Keys: 3/16", 7/32", 1/4", 5/16", 3/8"	\$23.94
70591*	9 Keys: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	\$19.68



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.	Length (In.)	Description	Price
25912	3.75	9 Key, .050 to 3/16"	\$17.24
25911	4.5	9 Key, 5/64 to 1/4"	\$20.04
25611	5.5	6 Key, 5/32 to 3/8"	\$28.56

*WARNING: This item may 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

NUT DRIVER



N9082M



Part No.	Description	Price
N9082M	1/4", Extra-Long, Magnetic, Hollow Shaft	\$33.22
N9083M	5/16", Extra-Long, Magnetic, Hollow Shaft	\$33.22



SAB601

MULTI-SOCKET



Part No.	Description	Price
SAB601	Multi-Socket Nut Driver	\$40.00



61014M

MAGNETIC NUT DRIVER

Exclusive hollow shaft design with rare earth magnetic tip features unobstructed pass-through



Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)	Price
61014M*	1/4	1 1/2	3 1/2	\$20.68
63014M*	1/4	3	6 3/4	\$20.92
64614M*	1/4	6	9 3/4	\$23.52
610516M*	5/16	1 1/2	3 1/2	\$21.82
630516M*	5/16	3	6 3/4	\$22.48
646516M*	5/16	6	9 3/4	\$25.60
6461132M*	11/32	6	9 3/4	\$24.90
63038M*	3/8	3	6 3/4	\$24.84
630716M*	7/16	3	7 5/16	\$27.82
646716M*	7/16	6	10 5/16	\$29.62
64612M*	1/2	6	10 5/16	\$31.38



630M

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	Includes	Price
630M*	3" Shaft, Set of 2	1/4", 5/16"	\$41.76
631M*	3" Shaft, Set of 7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	\$163.02
646M*	6" Shaft, Set of 2	1/4", 5/16"	\$47.62
647M*	6" Shaft, Set of 7	3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"	\$176.58



610

NUT DRIVER SET, STUBBY, CUSHION-GRIP

- Includes two nut drivers (610-1/4 and 610-5/16).
- Full hollow shank for long bolts or studs.
- Overall length: 3 1/2"



Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)	Price
610*	1/4, 5/16	1 1/2	3 1/2	\$32.14



610M

MAGNETIC SET, STUBBY

- Hollow shaft design with Rare Earth magnetic tip
- Hollow shaft 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
- Chrome-plated shaft helps prevent corrosion



Part No.	Description	Overall Length (In.)	Includes	Price
610M*	1 1/2" Shaft, Set of 2	3 1/2	1/4" & 5/16"	\$40.86

**7-IN-1 MULTI-NUT DRIVER**

- Strong, rare earth magnets (1/4", 5/16", 11/32", 3/8", 1/2") securely hold nuts and bolts
- Spring coil (7/16", 9/16") holds nuts and bolts in place without the use of magnets

- Hollow shafts (1/4", 5/16", 3/8", 7/16", 9/16") for driving nuts deep onto bolts or threaded rod
- Heavy-duty handle and shaft exceed the torque performance of regular nut drivers
- Wrench-assist on handle for added torque on tough jobs
- Color-coded bands for easy identification



Part No.	Description	Overall Length (In.)	Price
32807MAG*	7-in-1 Multi-Nut Driver Heavy Duty, 1/4", 5/16", 11/32", 3/8", 1/2", 7/16", 9/16"	9.54	\$68.46

**MAGNETIC NUT DRIVER, SLIDE DRIVE**

- Exclusive Klein patented nut driver head quickly adjusts from a 5/16" to 1/4" nut driver
- Comfort grip and chrome finish offers huge advantage in feel & look over the previous distributed product



Part No.	Description	Price
65129*	6" Fixed Blade Slide Driver	\$46.60

**MAGNETIC NUT DRIVER, HEAVY-DUTY**

- Hollow shaft allows for nut driving on unlimited bolt length
- Color coding for easy identification of different sizes
- Wrench assist for additional torque

- Magnetic feature helps retain nut
- Heavy duty shaft with classic Cushion-Grip handle



Part No.	Hex Opening (In.)	Overall Length (In.)	Price
63514*	1/4	9	\$26.94
63538*	3/8	9	\$29.34
635516*	5/16	9	\$27.06
6354*	Set of 4: 1/4, 5/16, 3/8, 7/16	9	\$120.76

**MAGNETIC, HEX HEAD 2-IN-1 NUT DRIVER**

- 1/4" and 5/16" six-point hex nut drivers
- Powerful magnets for maximum fastener-retention
- Solid build quality, feels like a conventional nut driver
- Color coded bands for easy identification
- Wrench-assist to help remove stubborn fasteners



Part No.	Hex Opening (In.)	Shaft Length (In.)	Overall Length (In.)	Price
65064*	1/4, 5/16	3 5/8	8	\$34.02

**MAGNETIC**

Part No.	Hex Opening (In.)	Overall Length (In.)	Price
HHD1S	1/4	7.25	\$25.66
HHD2S	5/16	7.25	\$26.08
HHD1	1/4	10.13	\$26.66
HHD2	5/16	10.13	\$27.42

**STUBBY**

- Overall length: 3 1/4"



Part No.	Hex Opening (In.)	Overall Length (In.)	Price
HHD1T	1/4	4 1/8	\$24.38
HHD2T	5/16	4 1/8	\$24.76

**Z TOOL**

ENERGY SAVING PRODUCTS

Part No.	Description	Price
ZT10	Dual nut driver, with 1/4" and 5/16" pivoting sockets	\$19.98

*WARNING: This item may 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

PLIER



D203-6

LONG NOSE SIDE CUTTER

- Induction hardened, long lasting side cutting knives
- Knurled jaws for sure wrapping and looping
- Curved handles provide greater tool control

- Jaw length: 1 7/8" (D/J203-6) 2 7/16" (D203-7), jaw width: 11/16", jaw thickness: 3/8", point thickness: 3/32"
- D prefix: plastic dipped; J prefix (journeyman): dual material coating - softer outer surface grip - harder, more durable on inner surface and handle ends



Part No.	Overall Length (In.)	Description	Price
D203-6*	6 5/8	Dipped Side Cutter Plier, 6 5/8"	\$49.90
D203-7*	7 3/16	Dipped Side Cutter Plier, 7 3/16"	\$52.78
J2036*	6 3/4	Journeyman Side Cutter Plier, 6 3/4"	\$60.54



D203-8

LONG NOSE HEAVY DUTY SIDE CUTTER

- Induction hardened cutting knives for long life
- Heavier design for greater cutting power
- Extended handles provide added reach and leverage

- Jaw length; 2 5/16"
- Wire stripper models strip 12 AWG wire
- Jaw length: 2 5/16", jaw width: 1", jaw thickness: 1/2", point thickness: 1/8"
- 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.	Overall Length (In.)	Description	Price
D203-8*	8 7/16	Dipped Side Cutter Long Nose Plier	\$65.32
J2038*	8 9/16	Journeyman Side Cutter Plier	\$83.04
J2038N*	8 9/16	Journeyman Side Cutter Plier/Stripper	\$85.08
D2038NCR*	8 7/16	Dipped Side Cutter Plier/Stripper/Crimper	\$88.96



D502-6

ADJUSTABLE PUMP

- Secure tongue and groove design for non-slip grip...even with heavy pressure
- Wide range of versatile jaw positions
- Plastic dipped handle



Part No.	Opening Width (In.)	Overall Length (In.)	Price
D502-6*	7/8	6 1/2	\$40.96
D502-10*	1 3/4	10	\$51.06
J50210*	1 3/4	10 1/4	\$66.64
D502-12*	2 3/8	12 1/4	\$63.00
D50216*	4 1/4	16 3/4	\$120.96



N9055

ADJUSTABLE



Part No.	Length (In.)	Description	Price
N9054	6 1/2	Tongue & Groove, 5 Adjustments	\$26.48
N9055	9 1/2	Tongue & Groove, 5 Adjustments	\$30.54
N9058	10	Tongue & Groove, 7 Adjustments	\$32.60
N9056	12	Tongue & Groove, 7 Adjustments	\$36.68



N00RR

WISE GRIP



Part No.	Length (In.)	Description	Price
N00RR	7	Locking Pinch-off Tool	\$47.70



NRE82240

PLIER/CUTTER



Part No.	Length (In.)	Description	Price
NRE82240	10	Slip Joint Plier	\$79.16

CUTTER



DIAGONAL CUTTER, STRAIGHT HEAD

- High leverage design. Rivet is closer to cutting edge for 36% greater cutting power than other plier designs.



Part No.	Overall Length (In.)	Description	Price
D2287*	7 1/8	Diagonal Cutter, Plastic Dipped Grip	\$56.38
D2288*	8 1/16	Diagonal Cutter, Plastic Dipped Grip	\$58.26



DIAGONAL CUTTER, ANGLE HEAD

- Angled head design for easy work in confined space
- High leverage design. Rivet is closer to cutting edge for 36% greater cutting power than other plier designs.

- 2000 series cutters handle ACSR, screws, nails, and most hardened wire



Part No.	Overall Length (In.)	Description	Price
D248-8*	8 1/16	Diagonal Cutter, Plastic Dipped Grip	\$60.60
D248-8GLW*	8 1/16	Diagonal Cutter, Glow-In-The-Dark Grip	\$72.64
J200048*	8 1/8	Diagonal Cutter, Heavy Duty, Journeyman Grip	\$90.88
D2000-48*	8 1/16	Diagonal Cutter, High Leverage	\$74.14



SIDE CUTTER

- 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.	Overall Length (In.)	Price
D213-8NE*	8 11/16	\$74.04
D213-9NE*	9 3/8	\$71.94
HD2139NE*	9 1/2	\$80.98
J213-9NE*	9 1/2	\$90.66
D2139NECR*	9 3/8	\$88.54



WIRE STRIPPER/CUTTER

- 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.	Overall Length (In.)	Description	Price
J1005*	9 3/4	Cutter/Crimper, Journeyman Handle	\$82.48
1006*	9 3/4	Cutter/Crimper, Non-Insulated only	\$70.60

WIRE STRIPPER/CRIMPER/CUTTER



CABLE CUTTER

- Hardened steel precision-ground cutting blades for long life.
- Copper curved cutter cleanly cuts round copper cable without compression or frayed ends.

- Anvil cutter for solid and stranded copper wire up to 12 AWG and stainless steel up to 0.032" diameter.
- Mild steel cutter for conductors up to 0.080" diameter.
- Curved cutter for solid and stranded copper wire up to 8 AWG, multi-conductor cable up to 1/2" diameter and coaxial cable RG-6 Quad, RG-59, and RG-62.
- Double-dipped grips for comfort.
- Coil spring provides fast self-opening action.
- Holes for looping and bending wire.
- Handy closure lock for convenient storage.
- Shears 6-32 and 8-32 bolts



Part No.	Overall Length (In.)	Description	Price
63020*	7	Light Duty Cable/Bolt Cutter	\$53.74

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

HAND TOOLS

WIRE STRIPPER/CRIMPER/CUTTER



J2068C

ALL PURPOSE PLIER

- Strips and cuts 8-16 AWG solid and 10-18 AWG stranded wire
- Long nose for grabbing and looping wire
- 6-32 and 8-32 screw shearing
- Induction-hardened cutting knives for hard wire

- Hot-riveted joint ensures smooth action with no handle wobble
- Forged steel for maximum durability
- Spring-loaded for self-opening action
- Dual material Journeyman handles provide better grip



Part No.	Overall Length (In.)	Description	Price
J2068C*	8 3/8	All Purpose Plier: Cut, Strip, Loop, Shear	\$90.58



1001

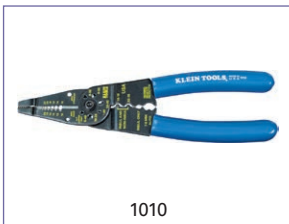
WIRE STRIPPER/CUTTER

- Two wire cutters – one at tip, the other halfway back near stripping holes – double the utility of this tool.
- Color-coded crimping dies for 10-22 AWG insulated and non-insulated terminals.

- Crimps 7-8 mm auto ignition terminals.
- Cleanly shears bolts.
- Pivot nut adjusts tension.
- Wire-looping holes near tip.
- Full-sized, plastic-covered cushioned handles for comfort.
- Strips and cuts: 8 - 18 AWG solid; 10 - 22 AWG stranded
- Bolt sizes: 4-40, 6-32, 8-32, 10-24, 10-32



Part No.	Description	Price
1001*	Crimper/Stripper/Bolt Cutter	\$56.44



1010

WIRE CRIMPER/STRIPPER/CUTTER

- Easily cuts and strips wire.
- Narrow, serrated pliers nose to pull, loop, and bend wire.
- Long, curved cutting blade.
- Cutters and strippers are in front of the pivot for maximum ease-of-use in reaching into tight places.

- Crimps insulated and non-insulated terminals and 7 to 8 mm ignition terminals.
- Cleanly shears bolts.
- Plastic-covered cushioned handles for comfort.
- Strips, cuts and crimps 10 - 22 AWG
- Bolt sizes: 4-40, 5-40, 6-32, 8-32, 10-32, 10-24



Part No.	Description	Price
1010*	Crimper/Stripper/Bolt Cutter, Long Nose	\$50.04



11045

WIRE STRIPPER/CUTTER

- Spring loaded for self opening
- Textured handles
- Wire looping and bending holes
- Precision ground stripping holes for easy removal of insulation
- Easy to read wire gauge markings

- Wire-looping holes near tip.
- Compact, lightweight wire-stripping and cutting tools.
- Narrow nose fits into tight places
- Hardened steel
- Do not use for cutting steel wire or bolts.



Part No.	Description	Price
11045*	Wire Stripper/Cutter, 10-18 AWG Solid	\$29.98
11046*	Wire Stripper/Cutter, 16-26 AWG Stranded	\$31.14



1011

WIRE STRIPPER/CUTTER

- Strips six standard wire sizes without nicking wire.
- Scissors action of 1/2" wide cutter makes clean cuts with little effort.
- Serrated nose jaws to bend, shape or pull wire; holes for looping wire ends.

- Spring-loaded for self-opening action.
- Comfortable, plastic-covered handles.
- Strips and cuts 10 - 20 AWG solid and stranded



Part No.	Description	Price
1011*	Wire Stripper/Cutter	\$29.88



11061

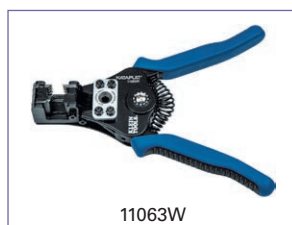
WIRE STRIPPER/CUTTER, SELF-ADJUSTING

The self-adjusting stripping head saves time by taking the guesswork out of stripping solid, stranded and Romex® wire. Especially useful in panels and other places where multiple wire sizes/types are present!

- Stripping head automatically adjusts to strip: 10-20 AWG solid, 12-22 AWG stranded, and 12/2 and 14/2 Romex® wire
- Stopper is adjustable to control the length of the core strip
- Tensioning thumb screw allows for precise stripping of smaller gauge wire
- Grooved grips are designed for added comfort
- Convenient wire cutter in handle



Part No.	Description	Price
11061*	Wire Stripper/Cutter, Self-Adjusting	\$52.74



WIRE STRIPPER/CUTTER, KATAPULT®

- 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	Price
11063W*	Wire Stripper/Cutter, Katapult®	\$67.06



FORGED STEEL WIRE CRIMPER, CUTTER, STRIPPER

- Includes a dedicated crimper with a wire stripper and two cutters
- Strips 10-18 AWG stranded wire
- Crimps 10-22 AWG insulated and non-insulated terminals and connectors

- Specially hardened wire cutter in the nose
- Shear cutter below the rivet cuts copper wire
- Forged steel for added durability
- Textured grips for enhanced dexterity and integrated hang holes



Part No.	Description	Price
2005N	Forged Steel Wire Crimper, Cutter, Stripper	\$76.54



WIRE STRIPPER, HEAVY DUTY

- Robust forged steel makes this 4 times stronger than traditional wire strippers
- Precision ground stripping holes
- Strips 10-18 AWG solid and 12-20 AWG stranded wire

- Twist up to three wires at a time
- 6-32 and 8-32 screw shearing
- Knurled jaw for twisting, grabbing and looping wire
- Induction hardened cutting knives for long life
- Hot-riveted joint ensures smooth action and no handle wobble



Part No.	Description	Price
K12055*	Wire Stripper, Heavy Duty, 8" Long	\$79.78



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	Price
11055*	Wire Stripper/Cutter, Klein-Kurve®	\$44.68
11055INS*	Wire Stripper/Cutter, Klein-Kurve®, Insulated	\$106.98



MC ROTARY CUTTER

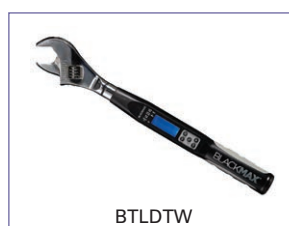
- Quickly splits the armored jacket on #10, 12 and 14 armored cables and 3/8" flexible conduit with a few turns of the handle
- Adjustable cutting depth for standard and reduced diameter BX/MC cables

- 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	Price
MCCUT	MC Rotary Cutter	\$80.48

WRENCH



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.)	Price
BTLDTW	3/16 - 1 3/8	15.25	\$404.32

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

HAND TOOLS

WRENCH



12HD

PIPE, CAST IRON

- Sturdy, cast-iron housing and I-beam handle for comfortable grip and strength without excess weight
- Full-floating forged hook jaw with spring suspension for instant grip, instant release

RIDGID

Part No.	Nominal Size (In.)	Pipe Capacity (In.)	Wgt (Lbs.)	Price
10HD	10	1 1/2	1.75	\$58.94
12HD	12	2	2.75	\$67.72
14HD	14	2	3.5	\$76.06
18HD	18	2 1/2	5.75	\$109.92



810WRENCH

PIPE, ALUMINUM

- Nearly 40% lighter than comparable cast-iron models of the same size

RIDGID

Part No.	Nominal Size (In.)	Pipe Capacity (In.)	Wgt (Lbs.)	Price
810WRENCH	10	1 1/2	1.0	\$93.60
814WRENCH	14	2	2.5	\$123.52
818WRENCH	18	2 1/2	3.75	\$154.00
824WRENCH	24	3	6.0	\$245.48



E110

OFFSET HEX

Hex jaw design gives multi-sided, secure grip on all hex nuts, square nuts, unions, and valve packing nuts.

- Ideal for use on expansion valve powerheads
- Extra wide opening

RIDGID

Part No.	Pipe Capacity (In.)	Length (In.)	Price
E110	1 1/8 - 2 5/8	9 1/2	\$84.48



N9028

COMBINATION

- Open end plus closed ratchet combination

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Size (In.)	Price
N9028R	7/16	\$27.34
N9029R	1/2	\$28.08
N9030R	9/16	\$32.04



N9073RR

SET, COMBINATION

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Price
N9073RR	7 Pc., Reversible Ratchet Wrench Set	\$199.14



NRE57771

ADJUSTABLE

- Chrome plated with vinyl cushion grip

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Length (In.)	Description	Price
NRE57771	10.0	Adjustable Pipe Wrench	\$83.20



D78PH

ADJUSTABLE

- Black phosphate finish

NAP NATIONAL REFRIGERATION PRODUCTS

Part No.	Size (In.)	Price
D74PH	4	\$35.18
D76PH	6	\$48.16
D78PH	8	\$51.20
D710PH	10	\$67.22
D712PH	12	\$125.86



D50710

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.)	Price
D5064*	1/2	4 1/2	\$51.24
D5076*	15/16	6 3/8	\$55.02
D5078*	1 1/8	8 3/8	\$59.98
D50710*	1 5/16	10 3/8	\$75.90
D50712*	1 1/2	12 3/8	\$108.84

**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.)	Price
3239*	1 1/2	16	\$176.02

**SLIM-PROFILE MINI RATCHET SET**

- Slim profile of the professional Mini Ratchet 5-Piece Set is the perfect tool for tight spaces
- Includes 1/4 and 5/16-Inch nut drivers, a 1/4-Inch adapter and four drive bits: #1 and #2 Phillips; 3/16 and 1/4-Inch slotted

- 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.	Size (In.)	Overall Length (In.)	Description	Price
65200	1/4" Dual-Drive	4.33	Mini Ratchet Set, head type 1/4", 5/16"	\$31.44

**RATCHET**

- Both ends are offset 25° for more convenient use in confined spaces.
- Quick-flip reversing lever for instant ratchet reversal.



Part No.	Size (In.)	Description	Price
68234*	1/4, 5/16	2 Size, Offset 25°	\$29.20

**RATCHET**

Part No.	Size (In.)	Description	Price
N1000	3/16, 1/4, 5/16, 3/8	4 Size	\$23.20
N0999	3/16, 1/4, 5/16, 3/8	4 Size, Offset 25°	\$20.90
N1001	3/8, 1/2	2 Size	\$30.50

**RATCHET**

Part No.	Design	Size (In.)	Price
60613*	Straight	3/16, 1/4, 3/8, 5/16	\$31.80
60618*	Straight, Heavy Duty	3/16, 1/4, 3/8, 5/16	\$55.60
60615*	Straight	3/8, 1/2	\$55.60
60616*	Offset	3/16, 1/4, 3/8, 5/16	\$32.80
60634*	Offset, Hex	3/8, 7/16	\$31.34
60636*	Offset, Hex	5/8, 11/16	\$48.56

**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.	Description	Price
60617*	Sporlan Valve Wrench	\$80.14

**HEX KEY ADAPTER**

- Fits 1/4" square drive shanks



Part No.	Description	Price
RRW-3/16	Hex Adapter, 3/16"	\$15.26
RRW516	Hex Adapter, 5/16"	\$15.28

**HEX KEY ADAPTER**

- One adapter works for 3/16" and 5/16" hex valves



Part No.	Description	Price
60609*	Hex Adapter	\$24.80

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

HAND TOOLS

TOOL SETS

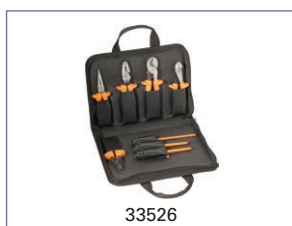


Kit includes:

- 646M: 6" Shaft, magnetic nut driver set, set of 2, 1/4", 5/16"
- 646-3/8: 6" Shaft magnetic nut driver, 3/8"
- 6124: Terminal block screwdriver 7 3/4" long, 1/8" shank tip width

- 32527: 11-in-1 Multi-bit Schrader® valve core tool screwdriver/nut driver
- 5139: Canvas bag, 7" x 12 1/2", zipper close

Part No.	Description	Price
HVACVDK*	HVAC Value Driver Kit	\$99.98



8-PIECE INSULATED TOOL KIT

Compact assortment of 8 popular insulated tools:

- 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 (15 1/2" W x 11" D x 2 1/2" H)
- Insulated tools exceed IEC60900, ASTM F1505 standards, 1000 volt



Part No.	Description	Price
33526*	8-Piece Insulated Tool Kit	\$1,050.70



18-PIECE JOURNEYMAN™ SET

Includes: 1 side-cutting plier, 1 diagonal-cutting plier, 1 long-nose plier, 1 pump plier, 1 adjustable wrench, 1 phillips-tip screwdriver, 1 wire-bending screwdriver, 2 cabinet-tip screwdrivers, 1 Rapi-Drive® screwdriver, 1 square-recess

tip screwdriver, 2 nut drivers, 1 power-return rule, 1 Klein-Kurve® wire stripper/cutter, 1 protective eyewear, 1 Powerline™ work belt, a 10-pocket tool pouch



Part No.	Description	Price
80118*	18-Piece Journeyman™ Tool Set	\$760.60



41-PIECE JOURNEYMAN™ SET

Includes the following Journeyman™ tools:

- 1 side-cutting plier, 1 diagonal-cutting plier, 2 long-nose pliers, 1 pump plier, 1 crimping/cutting tool, 1 cable cutter

Also includes:

2 Klein-Kurve® wire strippers/cutters, 1 Klein-Kurve® utility knife, two adjustable wrenches, 3 keystone-tip screwdrivers, 3 cabinet-tip screwdrivers, 2 phillips-tip screwdrivers, 1 wire-bending screwdriver, 1 square-recess tip screwdriver, 1 Rapi-Drive® screwdriver, 1 conduit-fitting & reaming screwdriver, 1 hex-key set (12-piece), 7 nut drivers, 1 awl, 1 torpedo level, 1 protective eyewear, 1 cable splicer's kit, 1 canvas zipper bag, 1 power-return rule, a 120' Speedway® fish tape, 1 shoulder strap, an 18" 10-pocket tool bag.



Part No.	Description	Price
80141*	41-Piece Journeyman™ Tool Set	\$1,764.72

KNIFE, SAW



UTILITY

Part No.	Description	Price
DMK6H	Standard Utility Knife, Retractable Blade	\$11.54
N66375	Heavy Duty, Auto Lock, 8 Pt. Breakaway Knife	\$15.54
N66385	Deluxe, Auto Lock, 13 Pt. Breakaway Knife	\$10.00
RBD6H	Replacement Blade DMK6H, 5 Pc.	\$6.10
N66372	Replacement Blade, 8 Pt., 5 Pc.	\$7.86
N66378	Replacement Blade, 13 Pt., 5 Pc.	\$5.10



UTILITY

- One piece titanium covered nose eliminates spreading
- 3 shatter resistant, titanium edge blades
- Retractable



Part No.	Description	Price
SSRK1	Lenox®Gold™ Utility Knife	\$35.36
GOLD5C	Lenox®Gold™ Utility Knife Blades, pkg of 5	\$5.84

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



10771

FOLDING UTILITY

- Locks securely and folds to a compact size
- Ergonomic, rubberized grip
- Uses standard GOLD5C blade

LENOX

Part No.	Description	Price
10771	Lenox®Gold™ Fold/Lock Utility Knife	\$30.96



31737

FOLDING JAB SAW

- Folding saw with durable carbon steel blade is as sturdy as fixed blade jab saws
- Hand saw has faster cutting blade with triple ground teeth and ability to cut in both directions

- Lockback mechanism secures the blade open at 125-degree and fully open at 180-degree
- Folded saw keeps the blade from piercing through tool pouches and bags
- Cushioned handle-end for easier palming of the saw
- Comfortable, non-slip grip handle
- Lanyard hole for tethering
- Designed to cut through drywall, wallboard, plywood, plastic, and other construction materials

KLEIN TOOLS

Part No.	Blade Length (In.)	Overall Length (In.)	Price
31737	5.2	11.9	\$42.84



20997

TRI-FOLD®

- Blade folds safely away
- Push button design locks blade into three different positions for multiple cutting applications
- Accepts reciprocating blades with 1/2" tang

LENOX

Part No.	Description	Price
20997	Saw w/ 2 Blades, for Plaster, Wood & Metal Cutting	\$51.58



725

JAB SAW

- Cuts drywall, wallboard, plywood, and plastic
- Triple ground teeth for a fast cut
- Blade cuts in both directions (push and pull)
- Hardened, carbon steel blade for durability
- Hardened, beveled blade point for scoring and plunge cuts
- Comfort-cushion grip with thumb groove
- Handle structure designed for strength and durability
- Flat-end grip for palming or punching through drywall

KLEIN TOOLS

Part No.	Blade Length (In.)	Overall Length (In.)	Price
725*	6	12	\$31.48



NRE30014

HACKSAW**NRP** NATIONAL REFRIGERATION PRODUCTS

Part No.	Description	Price
NRE30014	14" Wood/PVC Saw	\$22.72
NRE80175	Pistol Grip Mini Hacksaw	\$34.84
NRE80314	Replacement Mini Hacksaw Blade, Pkg. of 5	\$12.36



12132

HACKSAW, HIGH TENSION

- Blade tensions to 50,000 psi
- Tensions quickly in 12 turns maximum
- Converts to jabsaw
- Stores up to 5 blades
- 45° blade position for flush cutting

LENOX

Part No.	Length (In.)	Description	Price
12132	12	Hacksaw Frame	\$70.10



975

MINI BLADE HOLDER

- Uses standard hacksaw blade (included)
- Aluminum handle, for hard to reach applications

LENOX

Part No.	Description	Price
975	Blade Holder	\$19.22

*WARNING: This item may 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



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	Price
44201	Electrician's Pocket Knife, strips sizes 14-10 AWG	\$42.40

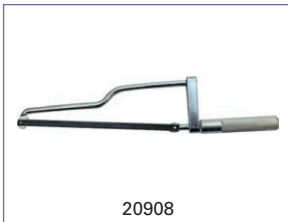


PVC

- Carbon steel blade
- Cuts plastic, nail embedded wood and drywall



Part No.	Length (In.)	Description	Price
HSF120	12	Blade & Handle	\$43.40
HSB12	12	Replacement Blade	\$18.68
HSB18	18	Replacement Blade	\$23.78

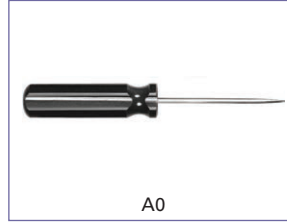


JEWELER



Part No.	Description	Price
20908	Jeweler Saw	\$28.56
20906	Replacement Blade, 6", 32 TPI	\$2.54

AWL, POINT



SCRATCH AWL

Blades are high carbon, alloy tool steel fully polished to resist rust. Blade tapers to a fine point and may be resharpened many times.



Part No.	Handle Type	Blade (In.)		Length (In.)	Price
		Dia.	L		
A0	Regular	1/8	3	6 1/4	\$7.50
A00	Regular	1/8	3	5 1/2	\$6.82
A1AWL	Large Diameter	7/32	3 1/2	5 3/4	\$8.16
A20	Regular	1/4	4	7 3/4	\$14.82
A2AWL	Large Diameter	1/4	4	6 1/4	\$13.96
A3AWL	Large Diameter	3/8	5	7 1/2	\$21.78



DIVIDER

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



Part No.	Max. Diameter Circle (In.)	Overall Length (In.)	Price
18	32	11	\$33.52
24	42	13.50	\$37.14



TRAMMEL POINT

- The TR42 expands to a 42" radius (84" diameter)
- All steel construction
- Points are resharpenable and also replaceable
- Telescoping arms are nickel plated to resist corrosion

- TRP - 1 pair replacement points



Part No.	Radius Range (In.)	Overall Storage Length (In.)	Price
TR42	12	24	\$61.08

SCRAPER

PUTTY



N2426



Part No.	Description	Price
N2426	Putty Scraper, 3" W	\$19.26

GASKET



N0485



Part No.	Description	Price
N0485	Gasket Scraper	\$26.96

FILE

ROUND



NRE22341



Part No.	Length (In.)	Description	Price
NRE22341	8	Mill Bastard File	\$19.90

STAPLER-RIVETER

OUTWARD CLINCH STAPLER



T680C2

- Powercrown™ tacker
- Easy squeeze design
- Compact, lightweight
- Convenient bottom load
- Unique design turns staple legs outward

- For pipe wrap, duct board and corrugated
- Professional quality



Part No.	Staple Length (In.)	Price
T680C2	1/2, 9/16 Powercrown	\$112.86

STAPLE



STCR5019916-4M



Part No.	Staple Length (In.)	Use with	Carton Qty	Price
STCR2619-1/2	1/2	Stapler PC3000-0C2	5000	\$23.40
STCR50193/8-5M	3/8	Stapler PC4000-0C1	5000	\$42.50
STCR50191/2-4M	1/2	Stapler T680C2	4000	\$13.88
STCR50199/16-4M	9/16	Stapler T680C2	4000	\$15.72

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.



Part No.	Description	Price
2IN1	Includes 3 Nose Pieces: 1/8", 5/32" and 3/16"	\$172.24

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.)	Price
N9060	16	3/4	\$29.96
N9061	25	1	\$39.44

HAND TOOLS

RULE



9225

TAPE MEASURE, 25-FOOT MAGNETIC DOUBLE-HOOK

- Tape Measure with 13-Foot standout of wide, tough and durable blade
- Uncluttered, easy-to-read bold lines marked on blade every 1/8-Inch

- Heavy-duty, tough, durable nylon-coating protects blade printing and delivers longer blade life
- Retraction speed brake controls blade speed and protects fingers from touching blade
- Measurement scale printed on front and back sides of blade for versatility to address different types of measurements
- Double hook can secure tape to items such as studs, conduit, pipes, etc. on front or back side of blade to measure with either measurement scale
- Strong magnet on hook attaches to ferromagnetic objects such as steel studs, doors, panels, conduit, etc. for easy measuring
- The impact resistant housing is over-molded with a soft touch finish for excellent grip and stands up to jobsite demands
- Metal belt-clip securely holds tape measure to belts, pockets, or pouches
- Conduit Bending Table and 3-Phase Layout Guide printed on back-side of tape for convenience
- Integrated tether hole for use at height



Part No.	Description	Price
9225	Power tape, 25' L, magnetic double hook	\$53.40



4100112

DIGITAL CALIPER

- 6" Stainless Steel Caliper
- Tri-Mode digital display inches, millimeters, and fractions
- For making inside, outside, depth and step measurements
- Auto off feature preserves battery life

- Bar scale is graduated in inches and millimeters
- Free-wheeling friction roller advances and retracts slide
- Extendable depth gage for use in slots and small holes
- Convenient foam-padded case for storage
- Flashing display indicates low battery
- Replacement Battery - LR44



Part No.	Description	Price
4100112	Resolution 0.0005" (0.01mm), Accuracy 0.001" (0.02mm)	\$56.96



722

CALIPER

Utility vernier caliper.

Part No.	Description	Price
722	0 - 5" range, 1/16" and mm grad	\$41.36
729	0-4" range, 1/32" and mm grad	\$37.30



900-6

FOLDING

- Strong, 6' long hardwood rules with clear abrasion-resistant coating.
- Black markings on yellow, with red stud center markings every 16 "
- Measurements are marked on both sides and both edges, and graduated to 1/16"
- Riveted lock joints are designed for long wear and maintained accuracy.



Part No.	Length (Ft.)	Description	Price
900-6*	6.0	Rule, Folding, Wood, 6', Inside Reading	\$57.36
901-6*	6.0	Rule, Folding, Wood, 6', Outside Reading	\$57.30

LEVEL



N9064

TORPEDO



Part No.	Description	Price
N9064	Torpedo Level, 9" Aluminum	\$33.40

SAFETY

WORK GLOVE



A713



Part No.	Description	Price
A713*	12" Long Blue Rubber Glove	\$8.90
A1321*	Brown Jersey Glove	\$5.28
R5281*	Leather Drivers Glove	\$28.10
R5290*	Nitrile Palm Coated Glove, Large	\$17.40
R5291M	Cut Resistant Level 5 Glove, Knit Wrist, Medium	\$23.00
R5291L	Cut Resistant Level 5 Glove, Knit Wrist, Large	\$23.00
R5291	Cut Resistant Level 5 Glove, Knit Wrist, XL	\$23.00
R5292M*	Bamboo Knit Liner Glove, with Latex Finger Grips, Medium	\$10.50
R5292L*	Bamboo Knit Liner Glove, with Latex Finger Grips, Large	\$10.50
R5292*	Bamboo Knit Liner Glove, with Latex Finger Grips, XL	\$10.50
R5293*	Gloves with HD Thermal Chill Grip, Knit Wrist	\$14.70

WORK GLOVE



NSAG



Part No.	Description	Price
NSAG	Protection sleeve against cuts and abrasions. 2-Ply sleeve, 3" W, stretches to fit practically any size arm comfortably.	\$12.50
NSGXL	Cut, Flame and Heat Resistant Gloves. Light weight and durable. Extreme dexterity.	\$18.60

LEATHER WORK GLOVES



60188

- Leather work gloves are made with professional-grade goatskin leather for comfort
- Knuckle and finger protection with PVC guards
- Mesh back and ergonomic shape provide great dexterity

- EVA foam padding on palms for extra comfort
- Mesh backing for breathability
- Leather thumb reinforcement for protection
- Hook and loop closure on cuff strap provides snug fit



Part No.	Description	Size	Price
60188	Large	Large	\$43.18
60189	X-Large	Extra Large	\$43.18



60186

WORK GLOVES, TOUCHSCREEN

- Cut 4 Gloves keep you connected and protected with touchscreen-capable fingertip
- Nitrile dip technology provides superior grip
- ANSI/ISEA 105-2016 Cut Level A4

- Thumb reinforcement for extra protection
- Seamless knit cuff for comfortable fit
- Machine washable



Part No.	Description	Size	Price
60186	Large, 2-Pair	Large	\$36.00
60198	X-Large, 2-Pair	Extra Large	\$36.00



97-002

ACTIVARMR® GLOVE

- Stainless steel and Kevlar fibres protect against snips, screws and sheet metal
- Twice as thin as standard leather with 6 times the cut protection
- Foam nitrile-dipped palm for a grip that withstands wet and dry conditions

- Ergonomic design and breathable construction offer superior comfort and dexterity



Part No.	Size	Price
97-002M	Medium	\$41.90
97-002L	Large	\$41.90
97-002XL	X-Large	\$41.90



40205

UTILITY

Form-fitting stretch panels between your fingers provide a snug fit as the elastic cuff offers easy on and off flexibility between tasks. The anatomically designed palm eliminates material bunching for an exceptional fit

- Moisture wicking and breathable Trek Dry stretch material on top with sponge foam and tricot lining for maximum comfort.
- Synthetic leather palm.
- Reinforced thumb and finger panels
- Wide opening elastic cuff for easy on/off.
- Machine washable
- TrekDry is a trademark of Mechanix Wear, Inc.



Part No.	Size	Price
40205-KLEIN*	Medium	\$40.50
40206-KLEIN*	Large	\$40.50
40207-KLEIN*	Extra Large	\$40.50

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

HAND TOOLS

SAFETY



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	Price
40211-KLEIN*	Medium	\$62.38
40212-KLEIN*	Large	\$62.38
40213-KLEIN*	Extra Large	\$62.38



EXTREME

- Flexible thermo plastic rubber (TPR) and EVA foam for the fingers, knuckles and back of the hand
- Impact absorbing PORON® padding material in the palm
- Palm and thumb reinforced with synthetic leather

- Breathable two-way stretch materials on top with sponge foam and tricot lining for maximum comfort
- Rubberized fingertip
- PORON® is a registered trademark of Rogers Corp



Part No.	Size	Price
40217-KLEIN*	Medium	\$83.16
40218-KLEIN*	Large	\$83.16
40219-KLEIN*	Extra Large	\$83.16



LEATHER

- Genuine professional grade leather offers great comfort
- Flexible thermo plastic rubber (TPR) for the fingers and back of the hand
- Reinforced palm with 2mm EVA foam padding

- Moisture wicking and breathable Trek Dry stretch material on top with sponge foam and tricot lining for maximum comfort.
- Neoprene cuff and soft molded rubber closure with hook and loop secures fit
- TrekDry is a trademark of Mechanix Wear, Inc.



Part No.	Size	Price
40220-KLEIN*	Medium	\$93.54
40221-KLEIN*	Large	\$93.54
40222-KLEIN*	Extra Large	\$93.54



SHOE COVER



Part No.	Description	Price
NSC	Shoe Cover, Black, XL, pkg of 50	\$25.80



NECK AND FACE COOLING BAND

- This cooling band is designed using super evaporative performance knit fabric
- Anti-odor treatment for long lasting freshness

- Seamless, moisture-wicking fabric can be worn wet or dry
- When wet, cooling is instant and can last for hours
- UPF 50+ sun protection from harmful UV rays
- Versatile cooling band can be worn many ways
- Can be worn by itself or under a hard hat
- One Size Fits Most
- Reflective accent
- Machine washable



Part No.	Description	Price
60439	Neck and Face Cooling Band	\$24.00



SAFETY GLASSES, NRP



Part No.	Description	Price
TXB236	Brazeau Torque, Matte Black Frame, Polarized Smoke Lens. Edge Brand.	\$57.10
TSKAP218	Kazbek, Black Frame, Polarized Aqua Precision Blue Mirror Lens. Edge Brand.	\$54.20
SW116	Daruba, Black Frame, Smoke Lens. Edge Brand.	\$20.30
DZ111G2	Zorge G2, Black Frame, Clear Lens. Edge Brand.	\$13.50
DZ116G2	Zorge G2, Black Frame, Smoke Lens. Edge Brand.	\$15.60



NSVXL

HI-VIS VEST

Designed to keep your workers safe from a distance. A 5 point breakaway style ensures workers are not snagged or caught in machinery for ultimate protection. 3 inside pockets and a mic tab make this a versatile yet lightweight vest.



Part No.	Description	Price
NSVXL	High Visibility Vest, 4 Stripes, 2" W	\$18.60

**RAIN PONCHO**

Part No.	Description	Price
DRP	Disposable rain poncho	\$3.20



60113RL

HARD HAT WITH HEADLAMP

• Safety hard hat has patent-pending accessory mounts on front and back ensure optional Klein Headlamps attach securely and precisely, every time — no straps or zip ties needed!

- Breathable, padded sweat-wicking sweatband and top pad improve comfort and are machine washable
- Adjustable vents can be opened or closed to control air circulation in hot and cold weather
- 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	Price
60113RL	Cap Style with Rechargeable Headlamp	\$113.10
60407RL	Full Brim with Rechargeable Headlamp	\$135.00



NSHH

HARD HAT

- Unique shell molded for superior rigidity and UV protection
- Six-point suspension with 1" nylon webbing to disperse impact force
- Standard slots accept most accessories

- Locking padded ratchet and Cool Guard™ brow pad
- The industry's lowest nape strap for extra secure fit



Part No.	Description	Price
NSHH	Hard Hat with 6-Point Suspension	\$30.14



NSBEP

HEARING PROTECTION

Part No.	Description	Price
NSBEP	Banded ear plugs designed to wear around the neck when not in use	\$11.90
NSEM	Golden Eagle ear muffs with full spectrum attenuation, ultra-soft head pad and Soft-Seal™ ear cushions	\$41.10



NSKM

KNEE PROTECTION

Part No.	Description	Price
NSKM	Industrial strength kneeler, waterproof. With curved handle and contoured design	\$37.30
NSKP	KneePro Ultra Flex III knee pads, virtually indestructible (2/pk)	\$61.58



NSFAK

FIRST AID KIT

Part No.	Description	Price
NSFAK	First Aid Contract Kit 10, Class A	\$34.60



NSCT

CAUTION TAPE

This caution barricade tape is non-toxic, lead-free, non-flammable and remains flexible in cold temperatures



Part No.	Description	Price
NSCT*	Caution Tape, 3" W / 1000 Ft Long	\$17.60

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

HAND TOOLS

TOTE



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	Price
58888*	7 External Pockets, 5 Internal Pockets, 15 1/2" x 7 1/2" x 10"	\$191.28
58890*	10 External Pockets, 7 Internal Pockets, 15 1/2" x 8" x 10"	\$218.32



TRADESMAN PRO ORGANIZER HARD CASE

- Hard shell protects tools, meters, small parts and tech devices
- Soft interior lining
- Durable zipper closure



Part No.	Description	Price
5189*	Hard Case, 5 1/2" x 10 1/4" 2 1/4" Belt Width	\$41.38



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	Price
55431*	Lighted Tool Bag, Twist On/Off Removable LED Light, 31 Pockets, 14" x 15 1/4" x 8"	\$227.14
554158*	Tote, 11 External Pockets, 9 Internal Pockets, 17" x 8" x 8"	\$159.00
5541610*	Tote, 22 External Pockets, 18 Internal Pockets, 12" x 10" x 10"	\$197.20
55419SP*	Shoulder Pouch, 7 External Pockets, 9 Internal Pockets, 10" x 8" x 5"	\$136.36
55421BP*	Backpack, 5 External Pockets, 34 Internal Pockets, 18" x 14" x 7"	\$219.42
55485*	Backpack, 12 Exterior Pockets, 36 Interior Pockets, 11" x 13.5" x 19.5"	\$420.94
55452RTB*	Rolling Tool Bag, 24 Pockets, Wide Open Interior for Large Tools, 14" x 19" x 12 1/2"	\$409.06



TRADESMAN PRO™ CLICK LOCK™ MODULAR SYSTEM

Build your own tool belt and carry only the tools you need with the Modular Tool Pouch System. Then store pouches in your garage, shop or work van with our Wall Rack.

- Tool belt system with quick-release clip design allows for easy change of tool pouches
- Designed for use with the Click Lock™ Modular System
- 32-Degree clip design allows pouch to move with you to keep contents upright
- Constructed with durable 1680d ballistic weave



Part No.	Description	Price
55913	Modular Parts Pouch with Belt Clip, 7 Pockets	\$73.50
55917	Modular Drill Pouch with Belt Clip, 4 Pockets. Fits most impact and battery drills.	\$73.50



TRADESMAN PRO™ MODULAR TOOL BELT - L

- 2-Inch wide double webbed belt features padded liner with breathable mesh interior
- Thick, rugged leather belt ends
- Side handles for ease of lifting

- Includes metal connection points to attach suspenders for extra support
- Loop tape measure holder
- Large fits 35-Inch to 39-Inch waist
- Use with Tradesman Pro™ Modular Pouch System with Click- Lock™
- Fits all Klein Tool Pouches with 2-Inch Tunnel Loop belt connections



Part No.	Description	Price
55919	Modular Tool Belt - L, waist size 35" to 39"	\$75.88
55920	Modular Tool Belt - XL, waist size 40" to 44"	\$75.88



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.
- Base pad feet help reduce wear and abrasion.



Part No.	Description	Price
ECP135*	Includes an internal USB charging system with a removable 10000 mAh power bank, 1 large zippered compartment, 3 large external and 20 internal pockets to organize and hold tools.	\$167.40
ECPL38*	Includes an internal USB charging system with a removable 15000 mAh power bank, 4 Internal charging wall pockets for tablets, smartphones, and small laptops; 2-Level, 200 Lumen LED light system with adjustable steel neck for lighting bag contents or work area; 31 Multi-use pockets inside, 5 pockets outside, 4 loops and measuring tape clip to help organize a wide variety of hand tools.	\$332.28



VETO-TECH-MC

TOOL BAG



Part No.	Description	Price
VETO-TECH-MC	8" x 10" x 12"	\$323.08
VETO-TECH-MCT	8" x 14" x 10"	\$369.24
VETO-TP4B	4.75" W x 4.5" L x 11" H	\$160.00
VETO-TP3B	Tool organizer w/ hard bottom, 18 pockets, 4.5" x 7" x 11". Includes belt slot, metal belt clip, quick clip tape holder, meter pocket, bit extension pockets.	\$129.24
VETO-TECH-LC	9 1/2" x 13 1/2" x 12" (Handle Folded Down)	\$455.38
VETO-TPXL	One-sided, closable mid-sized tool pouch that holds a variety of tools, meters, fasteners and wire nuts along with a tablet pocket on the backside.	\$313.84
VETO-TECH-PAC-MC	Compact tech backpack, 8" x 13" x 17". Includes: 2 Storage Bays- 4 Storage Platforms, 8" Electrical Tape Strap, Waterproof & Abrasion Resistant Hard Bottom. Waterproof 3mm Polypropylene Base. Quick Release Metal Hasp Allows Easy Access To Rear Storage, YKK® Locking Zippers	\$547.70
VETO-TECH-PAC	9 7/8" x 14 1/4" x 18 1/8" (Handle Folded Down)	\$621.54
VETO-TECH-XL	9 1/2" x 16 1/2" x 15" (Handle Folded Down)	\$498.46
VETO-OTLC	9 1/2" x 13 1/2" x 12" (Handle Folded Down)	\$446.16
VETO-OTMC	11 1/2" x 10" x 8" (Handle Folded Down)	\$393.84



VETO-MB3B

METER BAG

The MB3B is a large meter bag with 14 of vertical storage space with capacity for 2-3 meters and tool storage. This bag works over-time to make service calls quick and efficient

- Will fit an Ipad, Ipad Air (the 9.7" version) and Samsung tablet
- One Large Storage Bay With "Pull-Out" Thermoformed Insert Box Offering Padding And Protection For Meters
- 7 Outside Vertical Tool Pockets
- 1 Large Front Velcro Flap Lead Pocket
- 3 Webbed Attachment Points On Backside
- Backside Padded Tablet Pocket
- YKK® Zippers
- Polypropylene Plastic Base For Moisture And Abrasion Protection
- Padded Shoulder Strap
- Warranty: 5 Years (see Veto warranty terms and conditions)



Part No.	Description	Price
VETO-MB3B	Meter bag, 14" of vertical storage space (2-3 meters capacity)	\$304.62



VETO-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	Price
VETO-MB	3" W x 8" L x 9" H	\$110.76
VETO-MB2	3" W x 8" L x 13" H	\$146.16



510216

CANVAS TOOL BAG

- Heavy-duty No. 8 natural canvas.
- Rivet-reinforced for durability.
- Steel-frame mouth with hinge for rugged use.
- Stitched and riveted leather handles for comfort and strength.

- Two retaining straps with buckles provide secure closure.
- Bottom and lower sides are covered with moisture-resistant vinyl.
- Non-scratch studs on base protect against wear.



Part No.	Description	Price
510216*	Canvas Tool Bag, 16" L x 6" W x 14" H	\$148.60

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

HAND TOOLS

TOTE



5140

CANVAS ZIPPER BAGS, 4-PACK

- 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	Price
5140*	Canvas Zipper Bags, 4 Assorted Colors: Olive, Orange, Royal Blue, Yellow, 7" H x 12 1/2" L	\$87.66



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	Price
1537*	13" Multi-compartment to carrier	\$119.00



N8201C

COMPARTMENT BOX



Part No.	Description	Price
N8201C	13-Compartment Plastic Box, Clear, 1 3/4" H x 11" L x 6 3/4" W	\$22.94
N8202C	18-Compartment Plastic Box, Clear, 1 3/4" H x 11" L x 6 3/4" W	\$22.94
N8203	24-Compartment Plastic Box, Clear, 2 5/16" H x 13 1/8" L x 9" W	\$29.34
N5444	24-Compartment Metal Box, w/ Lid and Handle, 2" H x 13 3/8" L x 9 1/4" W	\$52.00



URIBUCKET

BUCKET

- Order the lid separately

Part No.	Description	Price
URIBUCKET*	5 Gallon Bucket, Blue, Empty	\$13.50
URIBUCKETLIDG*	URIBUCKET Lid with Gasket and Spout	\$5.50



1119

BUCKET ORGANIZER

- 14 double-row pockets inside and 34 triple-row pockets outside to organize a wide range of tools and accessories.
- Tape strap and key clip included.
- Drill pocket with hook and loop handle strap.
- Designed to fit most standard 3 1/2 to 5 gallon buckets



Part No.	Description	Price
1119*	48 Pocket Bucket Organizer	\$39.44



1154

BUCKET TRAY

Durable, lightweight plastic RoundUps™ bucket tray stacks or nests neatly in most 3 1/2- to 5-gallon buckets, perfect for organizing small parts and fasteners. With unique "pop-up" carrying handle.



Part No.	Description	Price
1152*	2 1/2" High, CLC RoundUps™ Bucket Tray	\$9.22
1154*	4" High, CLC RoundUps™ Bucket Tray	\$10.62



1140

EASYSEAT® BUCKET LID

EasySeat® bucket lid turns almost any 3 1/2- to 5-gallon pail into a comfortable seat, perfect for working on projects that are a few feet off the ground.



Part No.	Description	Price
1140*	Bucket seat/lid	\$16.36



5178

TOOL POUCH

- Soft, pliable, white leather.
- Riveted and stitched for extra durability.
- Heavy-duty chain tape thong securely fastened with a rivet.
- Belt connection: tunnel loop



Part No.	Description	Price
5178*	Tool Pouch, 11" x 10", 2 1/2" Belt Width	\$142.98



PK150

COMPRESSOR TOTE

Electro plated strong steel construction. Recommended for use with all compressors up to five tons



Part No.	Description	Price
PK150	Compressor Tote	\$75.84

STORAGE

55921

TRADESMAN PRO™ MODULAR WALL RACK

- Heavy-duty anodized aluminum rack securely stores three Modular Tool Pouches
- Designed for use with the Click Lock™ Modular System



- Quick-release clip design allows for easy change of tool pouches
- Comes with mounting hardware to secure in garage, shop, or work van
- Three adjustable mounts slide on bar to accommodate pouch configuration
- Use with Modular Piping, Open, Trimming and Drill Pouches (Cat. Nos. 55912, 55913, 55914, and 55917)

Part No.	Description	Price
55921	Modular Wall Rack	\$54.46

SCALE

P250

PLATFORM

Part No.	Graduations Range (Lbs.)	Description	Price
P250	0 to 250 x 1	18 Ga Steel Platform	\$258.00

SPILL RESPONSE

UL70140

BIG GRIP® BUCKET OF RED RAGS™

These ultra-tough disposable rags are packaged in a versatile and refillable dispensing pail. The Bucket slides into a wall-mount bracket (included) to store in service trucks or work areas, and quickly slides out for on-the-go cleaning needs.

- Ideal for heavy-duty wiping applications
- Easy-to-handle Big Grip Bucket dispenses center-pull rags with ease
- Bucket slides into wall-mount bracket (included) for convenient storage on service trucks and workshops
- Durable water-resistant container keeps rags dry and ready to use
- Up to 400% more absorbent than red cloth rags



Part No.	Description	Pkg Qty	Price
UL70140	Big Grip® Bucket of Red Rags™	140	\$55.00
UL70150	Red Rags™ Refil	140	\$45.00

SHOP TOWEL

N3125



Part No.	Description	Price
N3125	Shop Towels, 10 Pc.	\$20.24

BULK COTTON

5RLF



Part No.	Description	Price
5RLF	Bulk Cotton Rag, Lint Free, Blue, 5lbs.	\$34.34

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

HAND TOOLS

SPILL RESPONSE



RT600D

VIPER WIPES

Viper Wipes are an ultra-strong dual textured hand towels that will clean almost anything. Use to remove dirt, grease, oil, grime, tar, mastic, caulking and more! Towels absorb soils leaving your hands clean. These convenient wipe and go towels are used by

professional mechanics on the road, on the roof and in the shop. No water rinse is required. Viper Wipes contain Lanolin, Aloe, and Vitamin E for soothing relief on hands covered with nicks, scraps, and minor cuts.

- Waterless Hand Wipes
- Cleans Tools and Equipment
- Removes Tough Grease and Mastic
- Leaves Hands Smooth and Soft



Part No.	Description	Pkg Qty	Price
RT600D	Waterless hand wipes	80	\$45.50



6000

WIPER

WYPALL® L40 Wipers in POP-UP® Box 6000 (05790)

- Ideal for routine industrial cleaning and maintenance
- Removes soils and liquids from face and hands

- One-at-a-time dispensing for users on the go
- Teri® X60 TERI® Reinforced Wipers, POP-UP® Box, (34790)
Brings the absorbing power of HYDROKNIT® technology to a lighter weight wiper. Reinforced for extra scrubbing and cleaning power. Tough enough for big jobs -- soft enough for face and hands. White color



Part No.	Description	Pkg Qty	Price
6000	Wypall®, L40 Wiper, White	100	\$28.10
34790	Teri®, X60 Wiper, Reinforced, White	126	\$29.02



31930700

HEAVY DUTY CLEAN-UP BAG

3 Mil, 7 bushel capacity

Part No.	Description	Price
31930700	32" x 50"; 20 Bags	\$22.18



GS10

OIL ABSORBENT

- Contractor caliber absorbent of HVAC oils, lubricants, treatments, cleaners and descalers
- Reusable on different types of spills
- Works faster on more types of liquid spills

- Reduced handling, storage and disposal costs
- Use less water and liquid cleaners on spills
- Safe for use on all roof coatings
- Changes hazmat liquids into dry solid waste
- Gritty, non-slip material for floor spill
- Clean and dust-free
- Reduces flammability and ignitability
- Use inside, outside in wet or dry conditions



Part No.	Description	Price
GS10	Oil Absorbant, Reusable, 10 Lb Bucket	\$44.60

MIRROR



NUC20

INSPECTION



Part No.	Description	Price
NUC20*	Telescoping Round Mirror, 2 1/4" Diameter, up to 14" L	\$18.30
NUC2H*	Refill Head for NUC2	\$8.10
NUK20*	Telescoping Rectangular Mirror, 2 1/8" x 3 1/2", up to 15 1/4" L	\$19.00
NUK2H*	Refill Head for NUK2	\$8.10



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.	Description	Price
PLM2	LED Flashlight, Inspection Mirror	\$54.00



RSIM1

NON-INVERTED IMAGE INSPECTION MIRROR

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	Price
RSIM1	Rite-Site Non-Inverted Image Inspection Mirror	\$40.00

LIGHT



TKOM10TP

PRO PORTABLE LIGHT

Features

- Compact, powerful, reliable
- Weather Proof
- 3-6 hours dimmable operating time
- 4-5 hours charging time (USB chargeable, cable included)

- Emergency Code
- Charge Indicator
- Magnetic Handle
- ABS Housing with polycarbonate lens
- LIION 3.7V 4.4Ah battery
- IP64



Part No.	Description	Price
TKOM10TP	Ultra high quality OMNI 10W LED work light with magnetic handle, 900 lumens, 4 light modes	\$88.00



AMP1LBBK

PRINCETON TEC LED FLASHLIGHT

- Batteries included



Part No.	Description	Price
AMP1LBBK	45 Lumens, w/ Bottle Opener, Waterproof Housing	\$29.98
AMP35BK	100 Lumens, Waterproof Housing	\$59.98
LG1BK	210 Lumens, Waterproof Housing	\$88.34



DWL1

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
- COB (Chips on Board) - An innovation in LED technology, COB features smaller, easier clustered LED chips that are mounted directly to the circuit board. These LEDs work together as one lighting module. Because of the compact design, COB outperforms traditional lighting by up to 50 times the light output per centimeter of light surfaces.



Part No.	Description	Price
DWL-1	Dual Work Light	\$59.50



HYBBK

PRINCETON TEC HEADLAMP

- Batteries Included



Part No.	Description	Price
HYBBK	3 LEDs w/ 2 Mode Flood Light, and 2 Mode 100 Lumen Spot Light	\$82.84
HYBUVBK	3 UV LEDs to Highlight Leak Detection Dyes, and 2 Mode 100 Lumen White LED Spot Light	\$97.98



MPLS1HAT

PRINCETON TEC CLIP-ON FLASHLIGHT



Part No.	Description	Price
MPLS1HAT	Hat Visor Clip-On LED Flashlight w/ Flex Neck, 10 Lumens	\$28.30
IMP1BK	LED Flashlight w/ Carabiner and Hat Clip, 10 Lumens	\$19.98

HAND TOOLS

LIGHT



TLFLS250BK

LIGHTSTAR 250

The original LightStar tactical light. Momentary switch, tight beam, and black anodizing.

- 250 lumen output
- 2.5 hour runtime

- Comes with 2AA alkaline batteries, nylon holster, pocket clip, and attached wrist strap
- Momentary on, click for constant on/off
- Water resistant
- Aircraft grade aluminum



Part No.	Description	Price
TLFLS250BK	250 Lumens, w/ batteries, nylon holster, pocket clip, and attached wrist strap	\$49.96



TKIL10

THE INSPECTOR PORTABLE LIGHT

- Lightweight
- Totally portable
- Rotating and magnetic base
- Dimmable power settings
- 6 hours of operating time (full power)



Part No.	Description	Price
TKIL10	2 Light Modes, 250 Lumens, 8x high power LED, 8.5 x 2 x 1.5"	\$21.90



56048

HEADLAMP

- Rechargeable 400 lumen Auto-Off LED Headlamp has 3 modes: All-on/Boost at 400 lumens for 4 hours, Spotlight at 200 lumens for 12 hours, and 22 hour runtime Floodlight at 100 lumens

- Headlamp automatically turns off after 3 minutes in bright light via auto-sensing technology, extending battery life (feature can be disabled by holding the power button for 10 seconds)
- Battery gauge indicates level of battery life with colored LED lights
- Smartly designed headlamp bracket also attaches directly to Klein® Hard Hats (those equipped with bracket system)
- Slim profile with pivoting mount to allow up to a 64-Degree lighting angle
- Adjustable fabric strap with silicone grip secures to headlamp onto head, hard hat, or cap
- Light can be easily removed from bracket for recharging
- Rechargeable via micro-USB port (cable included)
- Durable headlamp: drop-test rating of 6-Foot, dust and water resistant



Part No.	Description	Includes	Price
56048	Rechargeable Headlamp w/ Strap, 400 Lumen All-Day Runtime, Auto-Off	Lamp, Bracket, Fabric Strap, USB Charging Cord; Instruction Manual	\$84.00



56403

RECHARGEABLE PERSONAL WORKLIGHT

- Versatile Rechargeable Personal Worklight stands, hooks, hangs, and mounts magnetically
- LED Light modes are High: 460 Lumens for 9 hours, and Low: 175 Lumens for 16 hours
- Able to charge smartphones and other small devices via USB-A
- Infinite light direction; head rotates 360 degrees while the kickstand rotates 270 degrees
- Kickstand features strong magnets for mounting, three nail notches, and a built-in carabiner for easy hanging
- Gauge indicates battery life in 25-Percent increments
- Rechargeable via Micro-USB cord (included)
- Easy to find glow locator recharges when li
- Durable light has a 6-Foot drop test rating and is IP54 water and dust resistant



Part No.	Description	Price
56403	460 Lumens for 9 hours to 175 Lumens for 16 hours	\$85.20

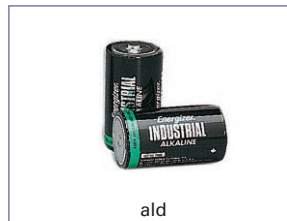


N5230

LAMP AND EXTENSION CORD



Part No.	Description	Price
N5230*	Extension Cord (3 Outlets), 25'	\$56.20
N5229*	Extension Cord, 50', 15A	\$66.60



ald

BATTERY

- Industrial alkaline battery



Part No.	Description	Price
AL6V	6 V	\$32.90
AL9V	9 V	\$5.50
ALAA	AA	\$1.60
ALAAA	AAA	\$1.60
ALC	C	\$4.00
ALD	D	\$3.70

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

BRUSH



38FB

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.	Brush Diameter (In.)	Price
14FB	1/4	\$8.20
38FB	3/8	\$14.30
12FB	1/2	\$14.30
58FB	5/8	\$14.30
34FB	3/4	\$14.30
78FB	7/8	\$14.30
118FB	1 1/8	\$15.20
138FB	1 3/8	\$16.22
158FB	1 5/8	\$17.50
218FB	2 1/8	\$19.14



B503B

CHIP

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



Part No.	Width (In.)	Price
B501	1	\$1.38
B502	1 1/2	\$1.66
B503B	2	\$2.04
B504B	2 1/2	\$3.22
B505	3	\$3.88



76524

RADIATOR/FURNACE

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



Part No.	Application	Description	Brush Dia. (In.)	Brush L. (In.)	L. (In.)	Price
00440	Furnace	Black natural bristle, twisted in wire with loop end, tapered	1/2 to 1	7	36	\$17.92
76524	Radiator	Horse hair/polyester mix twisted in wire with plastic handle	2 1/2	7	21	\$19.04
76220	Furnace	Brush Part with Twisted Wire Stem and Wood Handle	2 1/8	7	48	\$18.08



N2310



Part No.	Description	Price
N2310	Curved Handle Wire Brush	\$13.48
N2311	Shoe Handle Wire Brush	\$15.58
N2411	2" Flat Varnish Brush	\$5.14
N2421	Parts Cleaning Brush	\$25.64
N2422	Tampico Parts Cleaning Brush	\$26.74



B4W



Part No.	Description	Price
B4W	Welders Brush, Stainless Steel Bristles	\$7.54



B26FW



Part No.	Description	Price
B26FW	Fin Whisk	\$3.00



T200

FIN TOOL, METAL

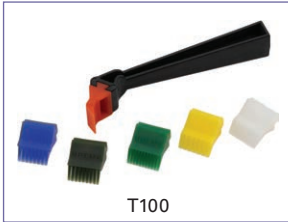
All metal long lasting fin straightener. The heavy duty spring wire bristles automatically adjust to ALL fin spacings. Tension adjustment band is featured to allow maximum rigidity and ease of operation.



Part No.	Description	Price
T200	Fin Tool	\$13.40
T300	Fin Tool, Heavy Duty Handle	\$15.14

HAND TOOLS

BRUSH



T100

FIN TOOL, MULTI HEAD

Each nylon head slides into the master handle and tightens in place. Each head is engraved with its own size and is color coded for fast identification. The heads are angled so that when inserted in the handle, the hand is a safe distance from the sharp fins. Heads may also be reversed in the handle, so that combing with an upward stroke (recommended method) may be done easily.



Part No.	Fins/Inch	Description	Price
T100	8,9,10,11,12,14	Kit (Handle)	\$16.68



FST

FIN STRAIGHTENER

Both tools feature one-piece adjustable combs. The resilient nylon comb material will not damage the soft aluminum fins of condenser or evaporator units.



Part No.	Fins/Inch	Description	Price
FST	8, 10, 12, 14	Fin Straightener	\$26.02
FST2	16, 18, 20, 22	Fin Straightener	\$26.02



FC0810

FIN COMB



Part No.	Fins/Inch	Price
FC0810 ¹	8 & 10	\$2.96
FC0915 ¹	9 & 15	\$2.96
FC1113 ¹	11 & 13	\$2.96
FC1214 ¹	12 & 14	\$2.96
FC1617 ¹	16 & 17	\$2.96
FC1820 ¹	18 & 20	\$2.96
FC2224 ¹	21/22 & 23/24	\$2.96
FCR6 ¹	Set of 6, FC0810 - FC1820	\$14.16

¹For high efficiency coil



437BN12

CONDENSER TUBE, NYLON

- Nylon bristles
- Single spiral/single stem construction recommended for cleaning all tubes where deposits are light.
- Female couplings: 12-24 threads



Part No.	Brush Diameter (In.)	Brush Length (In.)	Price
437BN14 ¹	1/4	3	\$8.82
437BN38	3/8	4	\$8.82
437BN118	1 1/8	4	\$9.40

¹Length 3", thread 8 - 32



43622

CONDENSER TUBE, BRASS

- Brass bristles
- Single spiral/double stem construction recommended for brass or copper tubes
- Brush length: 4"
- Female couplings: 12-24 threads



Part No.	Brush Diameter (In.)	Brush Length (In.)	Price
43604	3/8	4	\$18.04
43622	3/4	4	\$18.14



36H

CONDENSER BRUSH ACCESSORIES

- Accessories for use with 436, 437 Series condenser tube brushes



Part No.	Description	Price
24H	Rod, 24", 12-24 Thread, Male x Female, for 436, 437 Series, 3/8 - 1 1/8	\$21.44
36H	Rod, 36", 12-24 Thread, Male x Female, for 436, 437 Series, 3/8 - 1 1/8	\$24.56
14H	Rod, 48", Formed Handle, 8-32 Thread, Male, for 437BN14	\$25.08
13001	T Handle, 12 - 24 Screw, for 24H, 36H	\$12.94



AB

ACID

- Select horsehair bristles pressed securely in tin handles
- Brush width: 3/8"
- Handle length: 5"



Part No.	Description	Width (In.)	Carton Qty	Price
AB	Acid Brush	3/8	144	\$0.50

ROPE



N120

High strength polyester, braided, low stretch



Part No.	Diameter (In.)	Cord Length (Ft.)	Price
N120	1/2	50	\$39.90
N380	3/8	50	\$29.00

LUBRICATION



N3100

GREASE GUN

- Cartridge not included



Part No.	Description	Price
N3100	Grease Gun, 14 Oz. Cartridge	\$33.60
N3132	Mini Grease Gun	\$43.72



N1212

GREASE GUN ACCESSORIES



Part No.	Description	Price
N1212	12" Grease Hose	\$17.96
N1218	18" Grease Hose	\$21.00
N0531	Coupler, 1/8" NPT	\$8.60
N3124	14 Oz. Grease Cartridge	\$16.14
N31273	3 Oz. Mini Grease Cartridge, Pkg. 3	\$24.10



N6310

GREASE FITTING

- Assortment includes:
8 - 1/8" NPT straight
12 - 1/4"-28 NPT straight
4 - 1/8" NPT 90°
5 - 1/4"-28 NPT 90°



Part No.	Description	Price
N6310	29 Pc. Assortment	\$51.18
N6312	8 Pc., 1/8" NPT Straight	\$11.70



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.	Use with	Price
GFK1	Grease Fitting Kit	\$56.64



N28CG

CAULK GUN



Part No.	Description	Price
N28CG	Caulking Gun	\$10.00



NFP

MAX FLO OIL PUMP

With this oil hand pump you can smoothly pump oil into the compressor on the down stroke while the system is under pressure. This makes pumping easier with a positive stroke.

- Automatic bleed valve with no moving parts equalizes pressure inside and outside of the oil container
- Pumps against 200 psi pressure
- Comfort-grip rubber handle
- Compatible with all oil types (synthetic-mineral-polyolester)
- Fits all 1, 2 1/2 and 5 gallon containers



Part No.	Description	Price
NFP	Max Flo Oil Pump	\$156.50



77940

COMBINATION OIL PUMP

- Pumps 2.6 ounces per stroke
- Pumps against 250 psi pressure
- Universal stopper automatically adjusts to all standard openings in 1, 2 1/2 and 5 gallon oil containers

- Suction transfer hose and fittings included. Connects to bottom of unit to pump oil from equipment quickly and efficientl
- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils



Part No.	Description	Price
77940*	Container Oil Pump	\$278.30

*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

LUBRICATION



77930

OIL PUMP

- Pumps 3.8 ounces per stroke
- Foot stand base provides support and leverage
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently

- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils
- Will pump against 250 psi pressure
- 77939: optional 3/8" drain hose, 2' long



Part No.	Description	Price
77930*	Foot Stand Hand Oil Pump	\$342.56

SHEET METAL TOOL



MB48

MINI BRAKE

Make big or small fabrications on the job with this lightweight and portable tool! The versatile Mini Brake produces bends up to 135 degrees in sheet metals, including aluminum, copper and 22-gauge galvanized steel. The brake's compact size can accommodate sheet

metal stock up to 4-feet wide and as small as 4 inch square, in any length, because there is no fixed throat depth to contend with

Features

- Bends narrow roof-flashing strip
- Ideal for fabricating plenums or large transitions at the job site
- Dual-direction, cam-over style keep anvil secure in any position
- Optional Leg Kit



Part No.	Description	Price
MB48	Mini Brake	\$897.30

FOLDING TOOL

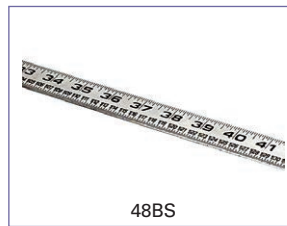


18F

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



Part No.	Length (In.)	Fold Depth (In.)	Price
18F	18	3/8, 1	\$45.44
24F	24	3/8, 1	\$60.20



48BS

TINNERS CIRCUMFERENCE RULE

Standard bench rule with circumference readings for sheet metal work. Made from semi-flexible, heat treated steel. Deep electro-etched markings, black filled for easy reading.

- 1 1/4" wide x 1/16" thick
- Upper scale graduations: increments to 1/16" both sides
- Lower scale graduations: 150 circumference inches in 1/8" increments both sides



Part No.	Description	Price
48BS	Circumference Rule	\$153.96



C5R

PIPE CRIMPER

- 5-blade pipe crimper.



Part No.	Throat Depth (In.)	Price
C5R	1 5/8	\$75.80



DS1

DUCT STRETCHER

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



Part No.	Description	Price
DS1	Duct Stretcher, Straight	\$56.64
DS2	Duct Stretcher, Offset	\$60.06
DS1C	Replacement Wheels, Nuts, Screws (DS1, DS2, DS3) (2)	\$16.52



M14N

ALUMINUM HANDLE SNIP

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



Part No.	Cut Length (In.)	Length (In.)	Price
M12N	3	12	\$72.26
M14N	3 1/4	14	\$80.60

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



ALUMINUM HANDLE COMBINATION

Versatile for cutting sheet metal stock, including metal ductwork or aluminum, steel, and vinyl siding. For straight, left or right cuts to 6" diameter. A rugged cast aluminum frame is half the weight of comparable size forged steel snips.

Separate inset blade components permit the use of cutlery grade high carbon steel that is heat treated and tempered to stay sharper longer. Blades are replaceable.



Part No.	Cut Length (In.)	Length (In.)	Price
MC12N	3	12	\$81.48
MC14N	3 1/4	14	\$90.36



AVIATION SNIP



Part No.	Cut Style	Price
NP6510-L	Offset Left and Straight	\$49.66
NP6510-R	Offset Right and Straight	\$49.66



AVIATION SNIP

- Serrated blades of forged steel for superior strength and durability
- Unique integrated wire cutter on outside of blade for duct and ceiling suspension wire
- Cuts 18 gauge steel and 22 gauge stainless steel

- Spring-action lock allows opening of tool with one handed operation
- Features color-coded comfortable contoured grips
- Convenient hang-hole for easy storage



Part No.	Cut Style	Cut Length (In.)	Price
1201R	Right Cut	1.5	\$37.50
1200L-Klein	Left Cut	1.5	\$37.50
1202S	Straight/wide curves	1.5	\$37.50



AVIATION SNIP

- Cuts to 18 ga. metal, 22 ga. stainless steel



Part No.	Cut Style	Price
22101	Left and Straight	\$44.24
22102	Right and Straight	\$44.24
22103	Left, Right and Straight	\$44.20
22105	Bulldog	\$49.54
22206	Offset Left	\$49.54
22207	Offset Right	\$49.54



PIPE DUCT CUTTER

3-Blade tool cuts from center taking out 1/8" track and leaving both edges clean.



Part No.	Description	Price
22213	Pipe Duct Cutter (Double Cut)	\$61.92



NOTCHER

Makes a clean 30° V shaped cut in sheet metal.



Part No.	Description	Price
22211	Notcher, 1" Max Throat Depth	\$61.92



NOTCHER

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



Part No.	Throat Depth (In.)	Price
N1R	13/16	\$109.04
N2R	1	\$115.14

TOOLS

SHEET METAL TOOL



SH3

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



Part No.	Head Weight (Oz.)	Description	Price
RH4	12	Riveting Hammer	\$119.52
SH3	18	Setting Hammer	\$118.86



22210

HAND SEAMER



Part No.	Description	Price
22210	Hand Seamer, Standard	\$98.02



S2R

HAND SEAMER



Part No.	Description	Jaw Depth (In.)	Jaw Width (In.)	Price
S2R	Standard	1 1/4	3 1/4	\$110.66
S3R	Offset	1 1/4	3 1/4	\$122.38
S6R	Standard	1 1/4	6	\$157.44



86555

SEAMER TONG

- Hot-drop forged for strength.
- Bending depth indicators marked in 1/4" increments.
- Bends 22 ga. CRSM.
- Cushioned handles for added comfort and easy operation.



Part No.	Description	Price
86555-KLEIN*	Seamer Tong, Straight	\$80.82



SC3R

BLADE CRIMPER



Part No.	Description	Throat Depth (In.)	Price
SC3R	Pipe Crimper, 3 Blades	1 1/4	\$78.40



22212

SNAP LOCK PUNCH

Joins sheet metal, duct and pipe sections economically. Punches raise a louvered shaped projection on metal edge for locking into rolled edge of sheet or piece to be joined.



Part No.	Description	Price
22212	Snap Lock Punch	\$77.40



SL1R

SNAP LOCK PUNCH

Join sheet metal, duct and pipe sections economically. Punches raise a louvered shaped projection on metal edge for locking into rolled edge of sheet or piece to be joined.



Part No.	Throat Depth (In.)	Description	Price
SL1R	3/8	Snap Lock Punch	\$119.58



2DH

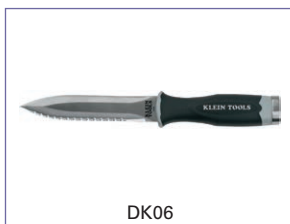
DUCT HOLDER

Two powerful clamps and four feet of 125 lb. tensile strength linked chain. Set holds duct in place, either between or under joists, until it is properly secured.



Part No.	Description	Price
2DH	Pair of Clamps with Chain	\$70.86

DUCT BOARD TOOL



DK06

SERRATED DUCT KNIFE

Perfect for cutting duct board and flexible duct. The stainless steel blade is dual-sided: 1-serrated and 1-regular for added versatility. Knife comes with a puncture resistant nylon sheath.

- Cuts duct board and flexible duc

- Double-edged knife-regular and serrated
- Puncture resistant nylon sheath with belt loop
- Cushion-Grip handle for comfort



Part No.	Description	Price
DK06	Serrated duct knife, 5.5" long blade (10.781" overall length)	\$34.06



DK6S

DUCT KNIFE

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	Price
DK6S	Duct Knife, Cushioned Grip, Serrated, 6" blade length	\$33.00



FG1

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	Price
FG1	Hole Cutter	\$91.10
KBHC	Replacement Blade for 1 1/2" Duct	\$13.52

SLED KNIFE



PURPLE



Part No.	Description	Price
ORANGE	Modified Corner Shipla	\$65.22
GREY	Female Shiplap, 1" Board	\$65.22
BLACK	Female Shiplap, 1 1/2" Board	\$65.22
PURPLE	Male Shiplap, 1" Board	\$65.22
YELLOW	Male Shiplap, 1" Board	\$65.22
BROWN	Male/Female Combination	\$65.22
BLUE	End Cut Off, 1" Board	\$65.22
BLUE112	End Cut Off, 1 1/2" Board	\$93.40
RED	V-Groove, 1" Board	\$65.22
RED112	V-Groove, 1 1/2" Board	\$93.40
8000	Straight Knife, 3 1/2" Blade	\$29.82



PURPLE-B

REPLACEMENT BLADE



Part No.	Color	Price
ORANGE-B	Orange	\$27.82
GREY-B	Grey	\$27.82
PURPLE-B	Purple	\$27.82
BLUE-B	Blue	\$27.82
RED-B	Red	\$27.82
RED112-B	Red 1-1/2	\$41.74

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MACHINE TOOL



PRO IMPACT POWER BIT SET, 26 PIECE

- Longer pro impact power bits and drivers are designed to reach easily into boxes and panels

- S2 Impact-Rated Steel for maximum life and a 1/4-Inch hex shank
- 4-Inch bit extension with strong magnet to keep bits in place
- 1-1/4-Inch precision machined bits are longer and easier to grip
- 2-5/8-Inch nut drivers reach easily into junction boxes
- Extended 4-Inch Phillips and Square bits for hard-to-reach fasteners
- Bits are easy to find and fit securely in the storage case
- Case has a spring loaded stay-shut latch and a hidden storage area for loose bits
- Phillips, square, and combo tips are color coded by size: green- #1 size bits, red- #2 size bits, black- #3 size bits
- Slotted tips and nut drivers use ASME standard color coding



Part No.	Description	Price
32799	Nut Driver Sizes: 1/4", 5/16", 3/8", Phillips Bits: 1-1/4" L: #1, #2, #3; 4" L: #2, Slotted Bits: 1-1/4" L: 3/16", 1/4", Square Bits: 1-1/4" L: #1, #2, #3; 4" L: #2 Combo Bits: #2, 4" Bit Extension	\$64.24



TORX®

- 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	Price
32525*	Tamperproof Bit Set, 32 pc	\$45.96



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.

MSHC

- 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.)	Price
MSHC	Reversible 1/4" (red) & 5/16" (yellow) Hex Socket, 2" long	1/4, 5/16	\$10.80
MSHXL	Reversible 1/4" (red) & 5/16" (yellow) Hex Socket, 6" long	1/4, 5/16	\$33.72
MSHC1	Reversible 5/16" (yellow) & 3/8" (blue) Hex Socket, 2" long	5/16, 3/8	\$12.44
MSHXL1	Reversible 5/16" (yellow) & 3/8" (blue) Hex Socket, 6" long	5/16, 3/8	\$35.38



MAGNETIC HEX DRIVER

MSHL1/4



Part No.	Hex Opening (In.)	Overall Length (In.)	Price
MSH1/4	1/4	1.75	\$7.80
MSH5/16	5/16	1.75	\$9.44
MSH3/8	3/8	1.75	\$12.02
MSHL1/4	1/4	2.56	\$11.88
MSHL5/16	5/16	2.56	\$13.76
MSHL38	3/8	2.56	\$16.04
MSHML14	1/4	4.00	\$16.66
MSHXL1/4	1/4	6.00	\$24.08
MSHXL3/8	3/8	6.00	\$22.20
MSHXL5/16	5/16	6.00	\$28.28



MAGNETIC HEX DRIVER

N0012



Part No.	Hex Opening (In.)	Length (In.)	Price
N0012	3/8	1 7/8	\$7.60
N0013	1/4	1 5/8	\$6.00
N0014	5/16	1 5/8	\$6.90

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



MAGNETIC HEX DRIVER

- Strong rare earth magnets for maximum holding.
- Pack of 3



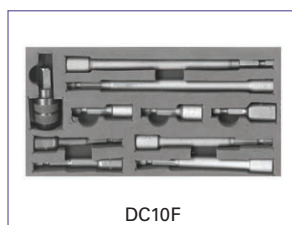
Part No.	Hex Size (In.)	Overall Length (In.)	Price
86600*	1/4	1 3/4	\$15.16
86601*	5/16	1 3/4	\$15.16



PICQUIC SYSTEM



Part No.	Description	Price
SUPER8	8 in 1 Screwdriver, 6"	\$37.70
N95006	Phillips Multipack; 0, 1, 2, 3	\$13.30
N95003	Torx™ Multipack Bits; T15, T20, T25, T27, T30, T40	\$19.40
N95004	Torx™ Security Bits; T8, T10, T20, T25, T27	\$26.18



CHUCK ASSORTMENT KIT

Each kit contains an assortment of 9 original magnetic chucks in a plastic storage box. DC10F also includes a quick change adapter. Contains 1 each of 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 7/8"



Part No.	Description	Price
DC9F	9 piece chuck assortment	\$70.00
DC10F	9 piece chuck assortment, quick change adapter	\$78.34



32 PIECE BIT SET

- Durable PVC black block allows for easy storage of standard bits.
- Block slides over most screwdriver shafts for easy bit access and storage.
- Industrial strength, heat-treated steel bits for long-lasting use.
- Hex bits included: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 3/16"
- Phillips bits included: #0, #1, #2 (Qty. 3), and #3
- Square recess bits included: #1, #2, and #3
- TORX® bits included: T6, T7, T8, T10, T15, T20 and T25
- Slotted bits included: 3-4, 5-6, 6-8, 8-10, 10-12, 12-14 screw sizes
- Clutch bits included: 5/32" and 3/16"
- Includes 1/4" square to 1/4" hex adaptor to drive sockets.
- Bits are compatible with 32473 and 70035 interchangeable bit screwdrivers.



Part No.	Description	Price
32526*	Industrial Grade Bit Set, 32 pc	\$43.98



JOBBER DRILL SET



Part No.	Description	Price
FJ6180	20 Pc., Wire Gauge Sizes 61 - 80 for Oil and Gas Orifices, Includes Pin Vise	\$124.40



IRWIN DRILL SETS

- Durable rubber-sided case for added impact resistance
- 15 piece Drill Set**
- Bit range from 1/16 to 3/8"
- Sliding latch design provides added security

- 135-degree split point prevents walking
- Black oxide coating resists corrosion
- 20 piece Drill/Drive Set**
- 7 contractor-grade insert bits
- Compact screw guide
- Philips double-end power bit
- 3 magnetic nutsetters for most common sizes
- 8 corrosion-resistant black oxide drill bits, 1/16 to 1/4"



Part No.	Description	Price
314015	15 pc High Speed Drill Set	\$63.04
357030	20 pc Drill/Drive Set	\$73.08

*WARNING: This item may 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



N2008P

DRILL BIT

- High speed steel
- Jobber length
- Black finis



Part No.	Size (In.)	Decimal Equivalent	Length (In.)	Price
N2008P	1/8	0.125	2 3/4	\$8.06



12DB

DRILL BIT

- High speed steel
- Jobber length
- Black finis

Part No.	Size (In.)	Decimal Equivalent	Length (In.)	Price
364DB	3/64	0.0469	1 3/4	\$2.18
116DB	1/16	0.0625	1 7/8	\$5.56
564DB	5/64	0.0781	2	\$5.68
332DB	3/32	0.0938	2 1/4	\$5.72
764DB	7/64	0.1094	2 5/8	\$5.72
964DB	9/64	0.1406	2 7/8	\$3.64
532DB	5/32	0.1562	3 1/8	\$3.96
1164DB	11/64	0.1719	3 1/4	\$4.08
316DB	3/16	0.1875	3 1/2	\$4.54
1364DB	13/64	0.2031	3 5/8	\$5.02
732DB	7/32	0.2188	3 3/4	\$5.68
1564DB	15/64	0.2344	3 7/8	\$5.76
14DB	1/4	0.25	4	\$6.18
1764DB	17/64	0.2656	4 1/8	\$7.34
932DB	9/32	0.2812	4 1/4	\$8.36
1964DB	19/64	0.2969	4 3/8	\$8.98
516DB	5/16	0.3125	4 1/2	\$9.06
2164DB	21/64	0.3281	4 5/8	\$10.14
1132DB	11/32	0.3438	4 3/4	\$11.24
2364DB	23/64	0.3594	4 7/8	\$12.48
38DB	3/8	0.375	5	\$12.60
2564DB	25/64	0.3906	5 1/8	\$14.36
1332DB	13/32	0.4062	5 1/4	\$14.66
2764DB	27/64	0.4219	5 3/8	\$16.12
716DB	7/16	0.4375	5 1/2	\$17.18
2964DB	29/64	0.4531	5 5/8	\$19.90
1532DB	15/32	0.4688	5 3/4	\$20.12
3164DB	31/64	0.4844	5 7/8	\$20.92
12DB	1/2	0.5	6	\$21.22



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.	Size (In.)	Decimal Equivalent	Length (In.)	Price
DE18	1/8	0.125	2	\$4.14
DE30	#30	0.1285	2	\$4.14
DE316	3/16	0.1875	2 3/16	\$5.62
DE14	1/4	0.25	2 1/2	\$7.82



5L

ARBOR

- 56PD: Replacement pilot drill



Part No.	Fits Hole Saw	Chuck Size (In.)	Shank Type	Price
5L	9L to 19L	3/8+	Hex	\$27.76
6L	20L to 96L	3/8+	Hex	\$42.28
2L	20L to 96L	1/2+	Hex	\$43.44



10X

ARBOR EXTENSION

- 30857 arbor adapter allows large diameter hole saws (1 3/8" and greater) to be used with arbors for the small hole saws



Part No.	Description	Price
10X	10" Extension, 3/8" chuck	\$35.56
12X	12" Extension, 1/2" chuck	\$30.90
35PD	Pilot Drill, 1/4" Stubby, CHC saws	\$8.70
56PD	Pilot Drill, 1/4"	\$8.18
1779771	Pilot Drill, 1/4"	\$9.22
30857	Adapts 9L-19L arbors to 20L-96L hole saw	\$7.04



LAZER CT™ RECIPROCATING SAW BLADES

- Up to 50X life (vs. 10 TPI Standard LENOX Bi-Metal reciprocating saw blades cutting cast iron and rebar)
- High performance carbide is welded to the cutting edge for durability and to help prevent tooth loss

- Titanium coating makes teeth more wear-resistant, so they stay sharp for quicker cuts
- Tall, thick blade profile designed to deliver straight cuts and long life
- Each tooth is precision ground to cut through a wide range of metals including steel pipe, cast iron and stainless steel



Part No.	Length (In.)	Width (In.)	Thickness (In.)	Teeth/Inch	Application	Price
4108RCT	4	1	0.050	8	Metal	\$18.00
6108RCT	6	1	0.050	8	Metal	\$25.02
9108RCT	9	1	0.050	8	Metal	\$33.00



HOLE SAW KIT

Six sizes preferred by refrigeration professionals. Hole saws 5/8", 7/8", 1 1/8", 1 3/8", 1 5/8", 2 1/8". Includes arbors 5L and 6L, and a spare pilot drill.



Part No.	Description	Price
600R	Refrigeration Hole Saw Set, 9 Pc., Plastic Case	\$213.90



HOLE SAW

- Bi-metal construction
- Use 5L arbor to 1 3/16" (19L)
- Use 6L arbor 1 1/4" (20L) and larger



Part No.	Diameter (In.)	Price
10L	5/8	\$18.12
11L	11/16	\$18.12
12LENOX	3/4	\$18.12
14L	7/8	\$18.12
16L	1	\$19.62
18L	1 1/8	\$19.62
20L	1 1/4	\$19.62
22L	1 3/8	\$20.68
24L	1 1/2	\$20.68
26L	1 5/8	\$20.68
28L	1 3/4	\$25.98
30L	1 7/8	\$25.98
32L	2	\$25.98
34L	2 1/8	\$31.36
36L	2 1/4	\$31.36

Continued...

HOLE SAW (CONT'D.)



Part No.	Diameter (In.)	Price
38L	2 3/8	\$31.36
40L	2 1/2	\$33.78
42L	2 5/8	\$33.78
44L	2 3/4	\$33.78
48L	3	\$34.98
50L	3 1/8	\$35.94
56L	3 1/2	\$35.94
60L	3 3/4	\$49.12
64L	4	\$52.90
66L	4 1/8	\$57.44



VARI-BIT®

- Double fluted (2 cutting surfaces)
- 135° fast starting drill point
- Cuts up to 1/8" (3 mm) thick material



Part No.	Chuck Size (In.)	Description	Price
VB889	1/4, 3/8	Vari-Bit® Kit, Includes VB1, VB2, VB3, plastic case	\$261.34



VARI-BIT®

- Double fluted (2 cutting surfaces)
- 135° fast starting drill point
- Cuts up to 1/8" (3 mm) thick material



Part No.	Chuck Size (In.)	Description	Price
VB1	1/4+	13 Sizes, 1/8 to 1/2", 1/16" Steps	\$63.10
VB2	3/8+	9 Sizes, 1/2 to 1", 1/16" Steps	\$109.92
VB3	3/8+	9 Sizes, 1/4 to 3/4", 1/16" Steps	\$96.36
VB4	1/4+	6 Sizes, 3/16 to 1/2", 1/16" Steps	\$73.36
VB7	3/8+	7/8" (for 1/2" Conduit) Steps	\$108.82
VB11	3/8+	2 Sizes, 7/8 and 1 1/8" Steps	\$147.52
VB12	3/8+	5 Sizes, 7/8, 1 1/8, 1 7/32, 1 1/4, 1 3/8" Steps	\$168.66



TOOL LUBE



Part No.	Container Size	Description	Price
68040	6 Oz.	Cutting Oil	\$12.30

MACHINE TOOL



CARBIDE TIPPED HOLE SAW

Designed for cutting tile and stainless steel.

- Heat resistant carbide teeth for long life in tile and stainless steel
- Thick backing plate resists damage and increases life

- Engineered design provides ability to cut in stainless steel like no other
- Use standard arbor or Snap-Back™ Arbor



Part No.	Diameter (In.)	Price
48CT	3	\$91.96



RECIPROCATING SAW BLADE

- B656R: bulk package of 25 656R blade



Part No.	Length (In.)	Width (In.)	Thick-ness (In.)	Teeth/Inch	Applica-tion	Price
606R	6	3/4	0.035	6	Wood	\$5.94
634R	6	3/4	0.050	4	Wood	\$6.52
656R	6	3/4	0.050	6	Wood	\$7.06
B656R	6	3/4	0.050	6	Wood	\$159.00
956R	9	3/4	0.050	6	Wood	\$9.40
156R	12	3/4	0.050	6	Wood	\$11.46
610R	6	3/4	0.035	10	Wood, Metal	\$5.94
810R	8	3/4	0.050	10	Wood, Metal	\$7.54
110R	12	3/4	0.050	10	Wood, Metal	\$11.46
818R	8	3/4	0.035	18	Wood, Metal	\$7.54
414R	4	3/4	0.035	14	Metal	\$4.60
418R	4	3/4	0.035	18	Metal	\$4.60
424R	4	3/4	0.035	24	Metal	\$4.60
614R	6	3/4	0.035	14	Metal	\$5.94
618R	6	3/4	0.035	18	Metal	\$5.94
624R	6	3/4	0.035	24	Metal	\$5.94
314RC	3	5/16	0.035	14	Wood, Metal	\$5.60
318RC	3	5/16	0.035	18	Metal	\$5.60
676RC	6	7/16	0.050	6	Wood	\$7.52
636RP	6	3/4	0.050	6	Plaster	\$7.08



TITANIUM EDGE, LENOX GOLD

Reinforced tooth design and a titanium edge combined with shatter resistant, bi-metal construct produces a blade that lasts approximately 2.5 times longer than standard bi-metal blades



Part No.	Length (In.)	Width (In.)	Thick-ness (In.)	Teeth/Inch	Applica-tion	Price
656G	6	3/4	0.050	6	Wood	\$8.46
956G	9	3/4	0.050	6	Wood	\$11.16
610G	6	3/4	0.035	10	Wood, Metal	\$7.12
614G	6	3/4	0.035	14	Metal	\$7.12
618G	6	3/4	0.035	18	Metal	\$7.12
624G	6	3/4	0.035	24	Metal	\$7.12



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 feature a lightweight aluminum frame and high speed bearings at the top and bottom of the drill shaft to assure perfect cutting balance and long cutting life.

- Cutters handle up to 20 GA metal
- HC1B: replacement pivot pin set
- CBBIT: replacement cutting bit



Part No.	Hole Size (in.)	Price
HC1	2 to 12	\$147.30
HC2	2 to 20	\$187.52



TURBO SHEAR

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 accessory cuts straight and to the left and is capable of navigating tight curved patterns and squares in heavy

gauge galvanized steel. Cutting applications include both ferrous and non-ferrous sheet metals, metal roofing/building panels, vinyl, steel mesh ductwork, even the thick metal of furnace jackets, equipment enclosures or automotive body panels. An offset design keeps both hands away from work surface. Long-wearing hardened jaws are also replaceable.

- Clamping device is standard with TSHD Heavy Duty TurboShear, optional with TS1
- Non-slip flats on drive shaft of TSHD for higher torque cutting
- TSHD will cut 20 ga spiral or layered metal seams
- Fits most 14.4-volt or larger A/C or cordless drills.
- Blind cuts require a 1-inch starting hole for TSHD, 1/2 inch for TS1



Part No.	Capacity	Description	Price
TS1SHEAR*	20 Ga.	Turbo Shear	\$119.02
TSHD	18 Ga.	Turbo Shear HD with Drill Clamp	\$219.52
TS1RB*	TS1SHEAR Replacement Blades		\$62.80
TSHDRB	TSHD Replacement Blades		\$94.46

*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

LOAD SECURITY



HS30

WEB STRAP

Straps for securing loads. More user friendly than rubber tie downs. Spring loaded adjustable buckle. Strong, durable 1" polypropylene webbing.



Part No.	Length (In.)	Comments	Price
HS30	31	Polypropylene, Spring Buckle	\$7.04
HS60	60	Polypropylene, Spring Buckle	\$9.90
HS144 ¹	144	Nylon Webbing, Cam Lever Buckle	\$47.76

¹3,000 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



Part No.	Length (In.)	Color	Price
21502	24	Black	\$28.66
21540	48	Red	\$35.48
215600	72	Yellow	\$38.22
21580	96	Green	\$49.86



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.)	Comments	Price
HS192	192	3,000 Lb. Nylon Web	\$66.20



BNG39

MONKEY FINGERS ADJUSTABLE BUNGEE CORD

- One size fits AL
- 70 lb Load Rating
- Heavy Duty Hooks
- Marine Grade Cord
- Easy to Use – Just Two steps
- Age Resistant

- UV Resistant
- Abrasion Resistant



Part No.	Length (In.)	Price
BNG39	6 to 60+	\$12.00



TD21

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.)	Price
TD10	9	\$2.32
TD15	15	\$2.60
TD21	21	\$2.94
TD31	31	\$4.52
TD41	41	\$6.14

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FLAME TOOLS

OXYACETYLENE WELDING/BRAZING



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.	Description	Price
KCHP	#71 welding handle, RO100 O2 and RCM100 Acetylene regulators, 17-2 and MTF5 tips, 511 carrying stand	\$576.50



NKA700M

STUBBY™ KIT

Stubby-Style products are rugged and designed for commercial applications where size is a consideration. These tips give the user close up control and they maximize movement in tight areas. Includes NTC15WA handle, 1, 3 tip, 12' hose, goggles,

lighter, 2-gauge O, MC acetylene regulators.



Part No.	Description	Includes	Price
NKA700M*	Front Valve, Stubby™ Kit	NTC15WA handle, 1, 3 tip, 12' hose, goggles, lighter, 2-gauge O, MC acetylene regulators.	\$560.16
NKA700M12P	Kit with Plastic Cart	NTC15WA handle, 1, 3 tip, 12' hose, goggles, lighter, 2-gauge O, MC acetylene regulators.	\$625.46
NKA725M12P	Kit with Plastic Stand	NTC15WA handle, 1, 3 tip, standard long tip, 12' hose, goggles, lighter, 2-gauge O, MC acetylene regulators.	\$625.46



NKA700M

WELDING KIT

Kit includes welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC or B, O regulator.



Part No.	Description	Includes	Price
NKA125M*	For MC Tank	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator.	\$496.90
NKA125M12P*	For MC Tank	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator, plastic stand	\$550.54
NKA125B*	For B Tank	welding handle, 1 & 3 weld tip, 12' hose, goggles, lighter, 2-gauge MC, O regulator.	\$496.90



NTC15WA

FRONT VALVE HANDLE

- Use with N20, N3033 tips



Part No.	Description	Price
NTW5A*	Front Valve Handle, A Inlets	\$232.32



N20330

WELD/BRAZE TIP/STUBBY™

- Tips are 3" overall length



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Price
N20330*	3/16 to 3/4	0	\$50.28
N20331*	5/16 to 1 1/8	1	\$55.90
N20332*	3/16 to 3/4	2	\$50.20
N20333	5/8 to 1 3/8	3	\$62.86



N2033H15

ROSEBUD TIP/STUBBY™



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Price
N2033H15*	to 1 5/8	15	\$66.02



N2066T00

TWIN TIP/STUBBY™



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Price
N2066T00*	to 5/8	00	\$84.02
N2066T0*	to 1 1/8	0	\$97.18
N2066T1*	to 2 1/8	1	\$84.02



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

G-TIP/STUBBY™



N2077G0



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Price
N2077G00*	to 5/8	00	\$98.88
N2077G0*	to 1 1/8	0	\$98.88
N2077G1*	to 1 5/8	1	\$98.88
N2077G2*	to 2 1/8	2	\$98.74
N2077G3	to 3 1/8	3	\$95.26

WELDING TIP



N30333



Part No.	Copper Tube Brazing Capacity (OD In.)	Description	Price
N30331*	1/4 to 1 1/8	Welding Tip, 1	\$55.10
N30332*	5/16 to 1 1/8	Welding Tip, 2	\$55.10
N30333*	1/2 to 1 3/8	Welding Tip, 3	\$62.30
N3033H15*	to 1 5/8	Rosebud Tip, 15	\$94.66
N3033H30*	to 3 1/8	Rosebud Tip, 30	\$94.66

Part No.	Description	Price
NRUB121	Black O-Ring, 7/16", Material Buna-N	\$7.90
NRUB122	Black O-Ring, 1/4", Material Buna-N	\$7.90

CUTTING ATTACHMENT



NTC141CAT



Part No.	Description	Price
NTC141CAT*	Cutting Handle, Includes 1 Tip	\$295.26

WELDING ATTACHMENT



NTW141TA

- Rear valves
- Check valves
- A hose inlets



Part No.	Description	Price
NTW141TA*	Welding Handle	\$231.68

NITROGEN REGULATOR, 2 GAUGE



NEN450F



These UL listed regulators are manufactured from durable brass with a neoprene rubber diaphragm, inlet filter and conical seat design.

Part No.	Contents (Psi)	Delivery Pressure (psi)	Price
NEN450F*	0 to 4000	5 - 450	\$138.92
NEN850F*	0 to 4000	5 - 850	\$253.88

REGULATOR, 2 GAUGE



NEA25BA



These UL listed regulators are manufactured from durable brass with a neoprene rubber diaphragm, inlet filter and conical seat design.

Part No.	Tank Type	Contents (Psi)	Delivery Pressure (psi)	Price
NEA25MA*	"MC" Acetylene	0 to 400	0 to 30	\$207.06
NEA25BA*	"B" Acetylene	0 to 400	0 to 30	\$207.06
NE025A*	Oxygen	0 to 4000	0 to 100	\$206.40
NEA1G*1	"B" Acetylene	0 to Full	—	\$182.58
NEA2G*1	"MC" Acetylene	0 to Full	15	\$182.58

¹1 gauge

STARTER KIT, 2 TIP



K23

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.	Description	Includes	Price
K23	2 Tip Kit	Less Stand	\$507.20
K23P	2 Tip Kit	511 Stand	\$595.90

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

OXYACETYLENE WELDING/BRAZING



K46P

STARTER KIT, CUTTING

These basic starter outfits have been expanded to include a cutting attachment for cutting steel and a welding tip for brazing and welding. The outfits are capable of brazing up to 1" copper tubing, welding up to 1/8" steel (with acetylene) and cutting up to 1/2" steel with supplied tip.

- Kit includes 71 welding handle, 2 tip, CA550 cutting attachment, 0 cutting tip, 2 gauge O & MC regulators, 12 1/2' twin hose, goggles, flint lighter and 511 stand



Part No.	Description	Price
K46P	Cutting Kit	\$739.42



KL714

HVAC, 3 TIPS, CUTTING

These are popular outfits for refrigeration and HVAC service technicians. The outfits include a cutting attachment for cutting steel and three different size welding tips for brazing and welding. These outfit 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 lighte .



Part No.	Description	Includes	Price
KL714	Welding Cutting Kit	Less Stand	\$693.20
KL714PT	Welding Cutting Kit	511 Stand	\$1,105.10



KLT714

MAINTENANCE, CUTTING

These are outfits designed for th maintenance service technician that has a variety of job requirements. The outfits include an attachment fo 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.

- Kit includes 71 welding handle, 2 tip, AS5 Twister® tip, F11 Gas/Air adapter, CA550 cutting attachment, 0 cutting tip, 2 gauge O & Acet regulators, 12 1/2' twin hose, goggles, flint lighte , less stand



Part No.	Description	Regulator Tank Connection	Price
KLT714	Maintenance Kit	MC	\$756.10
KLT715	Maintenance Kit	B	\$756.10



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.	Length (In.)	Price
CA550	8	\$241.54



71

WELDING HANDLE

Compact, light weight, two tube silver brazed construction with front stainless steel ball point valves for one-hand fingertip control and positive shutoff. Welds up to 1/4" steel and brazes up to 6" copper tubing using proper tips.

- A hose connection:
3/8" -24 RH, O
3/8" -24 LH, Fuel Gas



Part No.	Length (In.)	Price
71	6	\$192.30



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	Price
F11	Adapter, 71 & WH550, Fuel Gas Only	\$46.76



510100

CUTTING HEAD, SERIES 5

This series of cutting tips fits the CA550 cutting attachment.



Part No.	Tip Number	Cuts (OD In.)	Price
510100	00	3/8	\$38.46
51010	0	5/8	\$38.46
51011	1	7/8 to 1 1/8	\$38.46
51012	2	1 1/8 to 2 1/8	\$38.46



TYPE171

WELDING, BRAZING TIP

All type 17 welding tips fit both th 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



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Weld Thickness (In.)	Price
TYPE1700	3/8	00	3/64	\$53.08
TYPE170	5/8	0	5/64	\$53.08
TYPE171	7/8	1	3/32	\$53.08
TYPE172	1 1/8	2	1/8	\$53.08
TYPE173	1 5/8	3	3/16	\$58.00
TYPE174	2 1/8	4	1/4	\$62.00
TYPE175	3 1/8	5	N/A	\$63.84



TYPE1730

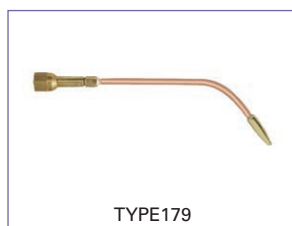
ROSEBUD TIP

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"



Part No.	Copper Tube Brazing Capacity (OD In.)	Overall Length (In.)	Price
TYPE1715	1/8 to 2 5/8	7.00	\$115.24
TYPE1730	5/8 to 6 1/8	7.00	\$115.24



TYPE179

FLEXIBLE TIP

- 10 1/2" long with mixer



Part No.	Copper Tube Brazing Capacity (OD In.)	Length (In.)	Price
TYPE179	Up to 7/8	10 1/2	\$140.92



MTW2

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.



Part No.	Copper Tube Brazing Capacity (OD In.)	Tip Number	Length (In.)	Weld Thickness (In.)	Price
MTW1	5/8	1	3	3/64	\$42.00
MTW2	1 1/8	2	3	5/64	\$42.00
MTR ¹	1 5/8	—	4	N/A	\$63.08

¹Rosebud style



MTT

MINIATURE FLEXIBLE TWIN TIP

- Adjustable tip ends for maximum control



Part No.	Copper Tube Brazing Capacity (OD In.)	Length (In.)	Price
MTT	1 1/8	4	\$74.92



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 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



Part No.	Copper Tube Brazing Capacity (OD In.)	Length (In.)	Flame Points	Price
MTF5	7/8	5 1/2	3	\$90.76

FLAME TOOLS

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.	Description	Price
NKX4B*	Includes NGA5, NGA14 Tips, B Regulator	\$576.98
NKX4BCW*	Includes NGA5, NGA14 Tips, B Regulator, Stand	\$708.84
NKX5B*	Includes NGA5, B Regulator	\$462.86
NKX6MC*	Includes NGA3, NGA8, MC Regulator	\$529.84



NKA37H

AIR/ACETYLENE KIT

Economical air fuel kit contains 12' hose, NEA1G regulator, NAA1 handle, NBA4 Kit.



Part No.	Description	Price
NKA37H*	NBA4 Tip, B Regulator	\$283.26



89600

STARTER KIT

- Kit includes: 1-gauge regulator, TH6 quick connect handle, 12 1/2' acetylene hose
- Uses quick connect Twister® tips



Part No.	Regulator Tank Connection	Includes	Price
89600	B	Tips A - 3, A - 11	\$570.16
89620	B	Tips A - 5	\$440.68
89603	MC	Tips A - 3, A - 11	\$570.16



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.	Regulator Tank Connection	Price
KTAQ23	B	\$399.96



NGA3

TARGET® TIP

- Tips have a filter and removable orific
- 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.)		Price
		Soft Solder	Silver	
NGA2	1/4	1/8 to 1/2	1/8 to 1/4	\$130.60
NGA3*	5/16	3/8 to 1 1/8	1/8 to 1/2	\$119.04
NGA5*	5/16	7/8 to 1 5/8	3/8 to 7/8	\$137.14
NGA8*	3/8	1 1/8 to 2 5/8	5/8 to 1 1/8	\$151.52
NGA11*	7/16	1 5/8 to 3 3/8	7/8 to 1 5/8	\$160.44
NGA14*	1/2	2 1/8 to 4 1/8	1 1/8 to 2 1/8	\$174.28
NGA32*	3/4	3 1/8 to 6 1/8	1 5/8 to 4 1/8	\$269.86



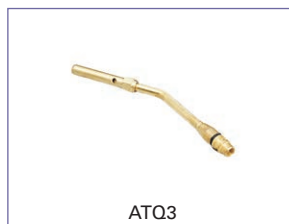
NGA3J

J TIP

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



Part No.	Flame Diameter (In.)	Copper Tube Capacity (OD In.)		Price
		Soft Solder	Silver	
NGA3J*	5/16	3/8 to 1 1/8	1/8 to 1/2	\$140.10
NGA8J*	3/8	1 1/8 to 2 5/8	5/8 to 1 1/8	\$160.88



ATQ3

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.)		Price
	Copper Tube	Brazing	
ATQ2	1/8 to 1 1/8	1/8 to 7/8	\$98.46
ATQ3	5/8 to 3 1/8	3/8 to 2 1/8	\$112.46
ATQ4	1 1/8 to 4 1/8	7/8 to 3 1/8	\$126.16
AT3	5/8 to 3 1/8	3/8 to 2 1/8	\$112.46

*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



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	Price
NGG4*	Quick Disconnect Handle	\$128.34



TH5

HANDLE

These air/fuel torch handles are ergonomically designed with a super tough phenolic grip for balance and comfort.

- A thread



Part No.	Type	Description	Price
TH5	Screw Connect	Front Pilot Valve, Thumb Control Lever	\$105.84
TH6	Quick Connect	Rear Valve	\$119.84
TH7	Quick Connect	Front Pilot Valve, Thumb Control Lever	\$145.70



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.)		Price
	Copper	Brazing	
ASQ21	1/16 to 1/8	to 1/16	\$30.76
ASQ22	1/8 to 3/8	to 1/8	\$30.76
S22	1/8 to 3/8	to 1/8	\$30.76
S23	3/8 to 1/2	to 3/8	\$32.30
S24	5/8 to 1 1/8	to 5/8	\$32.30
S-25	5/8 to 1 5/8	5/8 to 7/8	\$35.38
S26	7/8 to 4 1/8	7/8 to 1 5/8	\$36.92



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.	Regulator Tank Connection	Includes	Price
K37	B	1 - gauge regulator, S23 soft flame tip (screw), TH3 rear control valve, 12 1/2' acetylene hose	\$234.40
K38	MC	1 - gauge regulator, S23 soft flame tip (screw), TH3 rear control valve, 12 1/2' acetylene hose	\$234.40



S28

TWIN FLEXIBLE TIP

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



Part No.	Copper Tube Capacity (OD In.)	Price
S28	1/8" - 3/8"	\$96.16



NBA3

ACET-O-LITE TIP, SCREW-IN

- Quiet, adjustable flam
- Fits NAA1 handle
- Replace Prestolite, Uniweld screw-in tips



Part No.	Flame Diameter (In.)	Copper Tube Capacity (OD In.)		Price
		Soft Solder		
NBA1	1/16	1 1/16 to 1/4		\$39.86
NBA2	1/8	1/4 to 3/8		\$39.86
NBA3	3/16	3/8 to 5/8		\$39.86
NBA4	1/4	5/8 to 1 1/8		\$39.86
NBA5	5/16	1 1/8 to 1 5/8		\$52.80
NBA6	7/16	2 1/8 to 4 1/8		\$58.74



NAA1

ACET-O-LITE HANDLE, SCREW-IN

- Adjustment handle in front for single hand operation
- Needle valve design
- Standard 3/8-24 LH A fittin
- Compatible with NBA tips



Part No.	Description	Price
NAA1*	Acet-O-Lite® Screw-in Handle	\$107.32

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

FLAME TOOLS

AIR/ACETYLENE BRAZING



NGP600

SELF LIGHT TRIGGER LP TORCH

- Hot turbine flam
- Flame adjustment valve
- Use Mapp® or propane fuel



Part No.	Description	Price
NGP600*	Mapp/Propane Torch, Trigger Light	\$172.14



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	Price
NGHT100*	Standard Torch with GHTT1 Tip (Standard Single Tip)	\$143.04
NGHT100L*	Torch with GHTTL Piezo Lighter Tip (Push Button Ignitor)	\$155.08



UTA

TIP ADAPTER

- For TH air/gas control handles



Part No.	Description	Price
UTA	Adapter, Quick Connect Tip to Screw Connect Handle	\$55.38

FLAME TOOL ACCESSORIES

GAUGE



NSTE



Part No.	Application	OD (In.)	Scale Range	Price
NMA8016F*	Flat Gauge, NEA1G	1 1/2	0 to Full	\$36.10
NSTE146*	Delivery, NEA25	1 1/2	0 to 30	\$41.84
NSTE145*	Oxy	1 1/2	0 to 100	\$41.84
NSTE148*	Oxy	1 1/2	0 to 400	\$41.84
NSTE147*	Contents, NEO25	1 1/2	0 to 4000	\$49.56
NSTE332*	Contents, NEA25	2	0 to 400	\$34.90
NSTE391*	Delivery, NEN450F	2	0 to 1000	\$33.86
NSTE392*	Contents, NEN450F	2	0 to 4000	\$35.96



NHA36

HOSE ASSEMBLY

Constructed from quality 3/16" ID single ply, fabric reinforced grade R hose.

- 200 PSI working pressure
- 3/8-24 A fitting



Part No.	Length (Ft.)	Description	Price
NHA36*	6.0	Single Acetylene	\$46.40
NHA312*	12.0	Single Acetylene	\$70.90
NHA325*	25.0	Single Acetylene	\$103.26
NSW12A*	12.0	Dual Oxy-Acetylene	\$78.28
NSW25A*	25.0	Dual Oxy-Acetylene	\$132.68



NC800

ACETYLENE STAND

- Heavy duty steel
- Hose rack, support base, handle



Part No.	Description	Price
NC800*	Fits "MC" Cylinder	\$125.80
NC850*	Fits "B" Cylinder	\$125.78
NC850CW*	Fits "B" Cylinder, with wheels	\$298.00



*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



NC1200P

CYLINDER CART



Part No.	Description	Price
NC1200P*	Plastic Carry Stand, "R" Oxy, "MC"	\$93.60
NC1300*	Steel Wheeled Cart, "Q" Oxy, "B"	\$286.80



NGP18R

HALIDE LEAK DETECTOR

- For MAPP or propane gas
- 24" search hose



Part No.	Description	Price
NGP18R*	Halide Leak Detector	\$121.36
NDA8A*	Replacement Reactor Plate	\$15.00



NBRS665

SNAP ADAPTER

Adapts threaded NRP air acetylene tips to snap-in handles.



Part No.	Description	Price
NBRS665	Thread Tip to Snap-In Handle Adapter	\$31.10
NBRS700	Air/Fuel Screw-In Tips to Acetylene Fuel Handle	\$58.96
NBRS770	Snap-In Tip to Screw-In Handles	\$91.86



NMA2

CYLINDER WRENCH



Part No.	Description	Price
NMA2*	Cylinder Wrench	\$6.88



NBRS364

ADAPTER



Part No.	Description	Price
NBRS364*	"MC" Cylinder to "B" Regulator	\$41.54
NBRS365*	"B" Cylinder to "MC" Regulator	\$44.94



NGA3L

EZE-LITE TIPS

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



		Copper Tube Capacity (OD In.)		
Part No.	Flame Diameter (In.)	Soft Solder	Silver	Price
NGA3L*	1/4	3/8 to 1 1/8	1/8 to 5/8	\$149.50
NGA8L*	3/8	1 1/8 to 2 5/8	5/8 to 1 5/8	\$191.78
NGA14L*	1/2	2 1/8 to 4 1/8	1 1/8 to 2 1/8	\$215.04
NGA5L	5/16	Up to 1 1/2	Up to 3/4	\$206.46



N3011

FRICITION LIGHTER



Part No.	Description	Price
N3011*	Friction Lighter	\$6.90
N3011X*	5 Pack Flints	\$3.44



magnob

MAGNOB

MAGNOB is the tool that easily opens acetylene tanks, large and small. No more searching for the missing valve wrench or using an adjustable wrench for opening and closing the valve. Hard Anodized and extremely durable, the MAGNOB will never wear out on you. When replacing a tank, simply remove the MAGNOB from the empty tank and snap it onto the new one. Low Profile & Secure the MAGNO allows you to always verify the valve is closed.

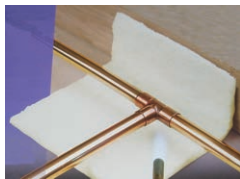


Part No.	Description	Price
MAGNOB	Magnob Acetylene Tool	\$30.00

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

FLAME TOOLS

FLAME TOOL ACCESSORIES



NFG

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	Price
NFG	9" x 12"	\$25.84



NFM200F

NITRO-SAVER™ NITROGEN PURGE/BRAZE

- Preset flow rates for purging and brazing
- Internal filtering for constant fl
- Easy to use, attaches to any regulator with 1/4" flare outlet
- Heavy duty brass construction



Part No.	Connection Size (In.)	Description	Price
NFM200F	1/4 Flare outlet	Nitro-Saver™ Nitrogen purge/Braze	\$106.00



H11

SINGLE ACETYLENE HOSE

- 3/16" nominal hose size



Part No.	Length (Ft.)	Connection Type	Price
H11	6.0	"A"	\$32.46
H13	25.0	"A"	\$82.62



H32A

OXYACETYLENE TWIN HOSE

- 3/16" nominal hose size



Part No.	Length (Ft.)	Connection Type	Price
H32B	12.5	"B"	\$76.46
H33A	25.0	"A"	\$112.62
H33B	25.0	"B"	\$112.62



RSMC2

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



Part No.	Gauges		Tank Connection	Price
	Delivery	Contents		
RSB2	0 - 30 psi	0 - Full	"B"	\$190.76
RSMC2	0 - 30 psi	0 - Full	"MC"	\$190.76
RSO	0 - 100 psig	0 - 4,000 psig	"O"	\$194.62



RMC

REGULATOR, R SERIES

- Compact design with rear inlet service
- Forged brass body with polished chrome plated bonnet
- Low profile forged brass pressure adjusting screw

- 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
- UL Listed



Part No.	Gauges		Tank Connection	Price
	Delivery	Contents		
RB	N/A	0 - Full	"B"	\$153.38
RB2	0 - 30 psig	0 - Full	"B"	\$171.84
RMC	N/A	0 - Full	"MC"	\$153.38
RMC2	0 - 30 psig	0 - Full	"MC"	\$171.84
RO	0 - 100 psig	0 - 4000 psig	"O"	\$183.84



G15D

REPLACEMENT GAUGE

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



Part No.	Gas	Pressure Range (psi)	Price
G15D	Acetylene	0 to 30	\$26.62
G19D	Acetylene	1/4, 1/2, 3/8, Full - 400 psi Max.	\$26.62
G49D	Oxygen	0 to 100	\$26.62
G56D	Oxygen	0 to 4000	\$32.16



RP3A

UNITORCH® REGULATOR



Part No.	Description	Price
RP3A	Mapp Regulator with A Outlet Fitting	\$115.38



510

STAND, METAL

- Holds MC, R tanks



Part No.	Description	Price
510	2 - Tank Stand, Utility Tray	\$126.00



F36

ADAPTER, CYLINDER TO REGULATOR

- Fitting adapts cylinders to regulators



Part No.	Cylinder	Regulator	Price
F31	CGA520 "B"	CGA200 "MC"	\$35.84
F32	CGA510 "POL"	CGA520 "B"	\$39.84
F33	CGA520 "B" 90°	CGA510 "POL"	\$42.46
F36	CGA580 "N"	CGA320 "CO"	\$26.46
F37	CGA510 "POL"	CGA200 "MC"	\$39.84
F41	CGA200 "MC"	CGA520 "B"	\$39.84
FV600 ¹	CGA600, Propane	CGA200 "MC"	\$30.76

¹Use only with Uniweld MC acetylene regulators



512

STAND



Part No.	Description	Price
512	1 - Tank "MC", Utility Tray	\$85.54
515	1 - Tank "N20" or "CO" 5 lbs, Utility Tray	\$85.54



F59L

OUTLET ADAPTER

- Adapts regulator to hose



Part No.	Regulator	Hose	Price
F58L	"A" Conn. LH	"B" Hose Nut LH	\$19.70
F58R	"A" Conn. RH	"B" Hose Nut RH	\$19.70
F59L	"B" Conn. LH	"A" Hose Nut LH	\$22.30
F59R	"B" Conn. RH	"A" Hose Nut RH	\$22.30



516

STAND



Part No.	Description	Price
516	1 - Tank "N40", "CO" 10 lbs	\$77.38



511

CARRIER, PLASTIC



Part No.	Description	Price
511	2 Tank "R", "MC", Green, Hose Spool	\$136.46



HCC79

HOSE COUPLING

- Adapts hose nut to hose nut



Part No.	Hose Nut	Price
HCC47	"A" RH to "B" RH	\$15.24
HCC79	"B" LH to "B" LH	\$8.62



TIP CLEANER



Part No.	Description	Price
TCLD	Extra Long Sizes, 75 - 49	\$12.76

FLAME TOOLS

FLAME TOOL ACCESSORIES



TCVA

CHECK VALVE

- Torch side fitting

WARNING

Protects against reverse flow of gases but not against flame flashback



Part No.	Description	Price
TCVA	3/8" - 24 "A" Fitting	\$81.54
TCVB	9/16" - 18 "B" Fitting	\$81.54



FL35

FLINT LIGHTER



Part No.	Description	Price
FL35	Triple Flint Lighter	\$11.08
FL36	Triple Flint Renewal	\$5.54



PCLD33

PROPANE LEAK DETECTOR

The propane halide leak detector instantly locates noncombustible halide (CFC & HCFC) refrigerant gas leaks. Leaks are located when the refrigerant gases are drawn in through the probe hose and exposed to a copper reactor plate, changing the blue flame to green

The detector is very sensitive and can be used to locate leaks as small as 20 ppm of CFC and HCFC refrigerants.



Part No.	Description	Price
PCLD33	Probe Hose, Valve Assembly, Propane Cylinder	\$124.62
PCLD33T	Probe Hose, Valve Assembly, Propane Cylinder, Tool Box	\$133.70
PLD33V	Probe Hose, Valve Assembly	\$108.16
LDPLC	Replacement Reactor Plate	\$19.38

AIR MANAGEMENT TOOL



CB2

GAUGE REGULATOR KIT

- Kits include 10' straight hose, blow gun, whip hose, 1/2" and 3/4" rubber cones, Drain Dawg™, tire chuck and needle tip.
- Adjustable nitrogen regulators



Part No.	Includes	Price
CB2*	CT475, 475 psi Regulator with Multi-gas Adapter	\$386.30



RBK6

SATELLITE

- Includes 1 1/4 lb. cylinder, 140 psi set pressure regulator and blowgun kit with belt clip



Part No.	Includes	Price
RBK6*	Satellite Kit	\$559.38



MBK6

MULTIGAS MINI KIT

Multi gas mini kit features a 2 1/2 lb. CO2 /9 cu. ft. nitrogen cylinder and includes:

- VA-06 on-off valve
- Holster
- CA-250 regulator, 0-250 psi, 2 gauge

- HK-03 3' hose and blowgun
- FA-01 nitrogen-CO2 transfill adapto
- CB-03 3/4" cone tip
- FA-03 transfill connecto



Part No.	Description	Price
MBK6*	Multigas Mini Kit	\$565.24



BG1

BLOWGUN



Part No.	Description	Price
BG1	1/4" male flare inlet, 1/8" FPT outle	\$35.84



AP-06

ACCESSORY PACK

Accessory kit for MBK6



Part No.	Includes	Price
AP-06*	Drain Dawg™, Tire Chuck, Universal Drain Cone, 15" Whip Hose	\$104.22



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	Price
CT475M*	Nitrogen Regulator, 475 Lb., with Multi Gas CO Adapter	\$160.46



BS25

ACCESSORIES



Part No.	Description	Price
BS25	Blowgun with Safety Tip	\$60.10
CK141*	1/4" to 1" Drain Cone with 1/4" Flare Fitting	\$25.02
DF75*	Drain Dawg™ Inflatable Flusher	\$36.58
FA02*	Female Nitrogen to CO Adapter	\$30.84
TC25	Air Chuck	\$21.60
HK-12*	Deluxe hose kit, 12' straight hose, blowgun and whip	\$204.24
QN-S3*	Needle Tip, Part of the CB2 Kit	\$39.36

CHARGING/TESTING



NEN450F

REGULATOR, 2 GAUGE

These UL listed regulators are manufactured from durable brass with a neoprene rubber diaphragm, inlet filter and conical seat design.



Part No.	Tank Type	Contents (Psi)	Delivery Pressure (psi)	Price
NEN450F*	Nitrogen	0 to 4000	5 - 450	\$138.92
NEN850F*	Nitrogen	0 to 4000	5 - 850	\$153.88



R1349

CO REGULATOR

- Gauge pressure 0-300 psi
- Delivery pressure 5-175 psi
- 1 gauge



Part No.	Description	Price
R1349	CO Regulator, Light Duty	\$153.70



TGCMC

TANK TEST GAUGE

Protect yourself against gas shortages by checking the cylinder contents.



Part No.	Description	Price
TGCB	"B" Acetylene, 0 - Full	\$56.16
TGCMC	"MC" Acetylene, 0 - Full	\$56.16
TGCO	O, 0 - 2200 psi	\$68.30
TGCN	Nitrogen, 0 - 4000 psi	\$68.30



NFM100F

NITROGEN FLOWMETER

- Visually confirms gas is flowing through system while brazing or purging
- Saves gas by delivering precise flow of nitrogen into system
- Auto-reset safety protects flowmeter from being over-pressurized



Part No.	Connection Size (In.)	Price
NFM100F*	1/4 FFL x 1/4 MFL	\$109.20

*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

DRAIN CLEANING



417901

GALLO GUN™

The Gallo Gun is a heavy duty CO2 powered tool that quickly and easily clears condensate drain lines with 800psi of oil free air! The Gallo Gun has a strong and rugged design, built with ergonomic finger grips, and comes equipped with a flexible hose assembly

and tapered fitting to fit up to a 1" drain opening. The Gallo Gun utilizes revolutionary dual fit cartridge base that can quickly and easily fit either a 16g or larger 20g cartridge for 25% more clearing power.

- Superior clearing power
- Revolutionary new design
- Reversible dual fit cartridge base
- Fits both 16g and 20g CO2 cartridges
- Lightweight and compact
- Heavy duty tool design
- Flexible hose assembly



Part No.	Description	Price
417901	Gallo gun with Mag™ 20g CO2 Cartridge	\$81.32
417916	Mag™ 16g CO2 Cartridge (12 pack)	\$58.30
417920	Mag™ 20g CO2 Cartridge (12 pack)	\$63.54



NC02K1

CO2 GUN KIT

- Refrigerant grade CO₂
- Injects One & Done! products into AC/R systems
- With backflow preventer
- Cleans out drain lines
- Injects sufficient gas to overcome the pressure it is meeting



Part No.	Description	Price
NC02K1	CO2 gun kit with 2 cartridges	\$90.08



CADS1

A/C DRAIN SUCKER KIT

A/C condensate drain pan overflows are a very common and costly service problem. The overflows are caused by slime and sludge that builds up and clogs the drain line. The A/C Drain Sucker quickly removes the clog and excess water, resolving the overflow problem

Kit includes:

- Drain Sucker and Hoses
- PurCool® Shock Tabs clean and treat the remaining slime and sludge in the pan and lines
- PurCool® Pan Strip Treatment provides months of preventive treatment and free flowing drain
- All Fittings for Suction or Pressure Applications



Part No.	Description	Price
CADS1	A/C Drain Sucker Kit with Treatment	\$70.52



LD10

BLOW OUT VALVE

Install this unit exiting the evaporator in a residential or commercial AC system, and hook up a 1/4" charging hose to the valve and the other end to your CO or Nitrogen tank. Turn the valve one way, and blow out the line. Turn in the other way, and remove any blockage inside the coil.



Part No.	Description	Price
LD10	Slip Condensate Pan Blow Out Valve, 3/4" x 3/4"	\$21.66

BRAZING GAS

ACETYLENE



MC

Part No.	Description	Size (Ft³)	Price
MC	Acetylene Gas Exchange	10	☎
MCTANK	Tank deposit, (less gas)	10	☎
20MC	Acetylene Gas Exchange	20	☎
20MCTANK	Tank deposit	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	☎

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

OXYGEN



Part No.	Description	Size (Ft ³)	Price
R	Oxygen gas exchange	20	
RTANK	Tank deposit	20	
RC	Oxygen gas exchange	25	
RTANKC	Tank deposit	25	
Q	Oxygen gas exchange	40	
QTANK	Tank deposit	40	
550EXC	Oxygen gas exchange	55	
550TANK	Tank deposit	55	
QC	Oxygen gas exchange	58	
QTANKC	Tank deposit	58	
60Q	Oxygen gas exchange	60	
60QTANK	Tank deposit	60	
80Q	Oxygen gas exchange	80	
80QTANK	Tank deposit	80	
1250EXC	Oxygen gas exchange	125	
1250TANK	Tank deposit	125	
300Q	Oxygen gas exchange	300	
300QTANK	Tank deposit	300	

PROPANE

- CGA600 connection
- Non-refillabl



Part No.	Description	Container Size	Price
MT1	Mapp/Pro™	16.0 oz	
TX9	Propane	14.4 oz	

PRESSURE TESTING GAS

NITROGEN



Part No.	Description	Size (Ft ³)	Price
20N	Nitrogen gas exchange	20	
20NTANK	Tank deposit	20	
N	Nitrogen gas exchange	40	
NTANK	Tank deposit	40	
50NEXC	Nitrogen gas exchange	50	
50NTANK	Tank deposit	50	
60N	Nitrogen gas exchange	60	
60NTANK	Tank deposit	60	
88N	Nitrogen gas exchange	88	
88NTANK	Tank deposit	88	
S	Nitrogen gas exchange	110	
STANK	Tank deposit	110	
115NEXC	Nitrogen gas exchange	115	
115NTANK	Tank deposit	115	
144N	Nitrogen gas exchange	144	
144NTANK	Tank deposit	144	
252N	Nitrogen gas exchange	252	
250NTANK	Tank deposit	252	
300N	Nitrogen gas exchange	300	
300NTANK	Tank deposit	300	

CO2



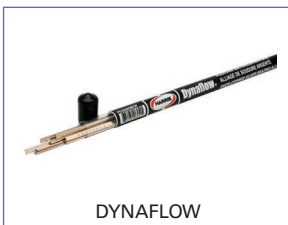
Part No.	Description	Size (Lbs.)	Price
REFILCO2	CO2 Gas Exchange	1	
C025LB	CO2 Gas Exchange	5	
C025LBTANK	Tank deposit	5	
C0210	CO2 Gas Exchange	10	
C02TANK10	Tank deposit	10	
C0215	CO2 Gas Exchange	15	
C0215TANK	Tank deposit	15	
C02	CO2 Gas Exchange	20	
C02TANK	Tank deposit	20	
50C02	CO2 Gas Exchange	50	

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

BRAZING ALLOY

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.

Part No.	Ag %	Cu %	Zn %	Sn %	P %	Melting Range		Fluidity Rating	Specifications		Recommended Joint (Min./Max.) Clearance (In.)
						Solidus °F/°C	Liquidus °F/°C		AWS A5.8	FED QQB650C	
A) Phos/Copper											
H45535	0	>78	—	<10	<8	1,178/637	1,247/674	—	—	—	—
H21035	0	92.9	—	—	7.1	1,310/710	1,476/801	5	BCuP-2	—	.002/.005
H41035	5	89	—	—	6.0	1,190/643	1,500/816	3	BCuP-3	BCuP-3	.002/.006
H51035	6	87	—	—	6.5	1,190/643	1,425/774	5	—	—	.002/.005
DYNAFLOW®	6	87.5	—	—	6.1	1,190/643	1,465/796	3	—	—	.002/.006
H61035	15	80	—	—	5.0	1,190/643	1,480/804	3	BCuP-5	BCuP-5	.002/.006
RF Series	15	15	—	—	5.0	1,190/643	1,480/804	3	BCuP-5	—	.002/.006
B) CAD Free											
H773*	40	30.5	29.5	—	—	1,250/677	1,350/732	5	—	—	—
H7631*	45	30	25	—	—	1,225/663	1,370/743	6.5	BAG-5	BAG-5	—
H753*	56	22	17	5	—	1,145/618	1,205/652	8	BAG-7	BAG-7	—
C) Flux Coated											
H76324	45	30	25	—	—	1,225/663	1,370/743	6.5	BAG-5	—	—
H75324	56	22	17	5	—	1,145/618	1,205/652	8	BAG-7	BAG-7	—
Silver Bearing											
H10001	4	—	—	96	—	430/221	430/221	10	—	—	—
H10009	6	—	—	94	—	430/221	535/279	8	—	—	—
50/50	in 0.1	in 3.0	—	—	—	460/238	630/332	6	—	—	—
Tin Compounds											
95/5	—	—	—	95	—	460/238	472/244	—	—	—	—



DYNALOW

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.)	Price
H21035*	0	28	0.05 x 1/8	\$27.24
H41035*	5	28	0.05 x 1/8	\$102.34
H51035*	6	28	0.05 x 1/8	\$117.42
DYNAFLOW*	6	28	0.05 x 1/8	\$122.74
H61035*	15	28	0.05 x 1/8	\$249.34
H60148* ¹	15	6	1/8 Sq.	\$251.14
H60135*	15	11	1/8 Sq.	\$252.38

¹Special 36" in length packaged in bulk 25 lbs



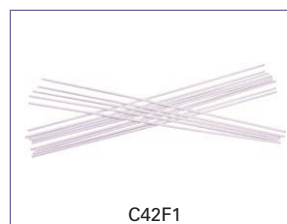
H76310

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	Price
H77324*	40	1/16 x 18	4 Oz.	\$163.26
H76310*	45	1/16	1 Oz.	\$57.16
H76313*	45	1/16	3 Oz.	\$168.14
H76315*	45	1/16	5 Oz.	\$278.46
H75310*	56	1/16	1 Oz.	\$70.00
H75313*	56	1/16	3 Oz.	\$206.68
H75315*	56	1/16	5 Oz.	\$342.36



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 Length (In.)	Price
C42F1	0	25	3/32	36	\$36.76



ZN78CW09020POP_B

ALUMINUM ALLOY

Excellent strength and corrosion resistance for joining aluminum-to-aluminum or aluminum-to-copper or brass.

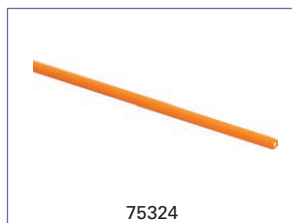
Free flowing with unequal capillary attraction, ductility, and penetration. ALUXCOR™ zinc aluminum alloys

have non-corrosive and non-hygroscopic cesium flux with a lower melting temperature and wider melting range than aluminum silicon alloys.



Part No.	Al %	Price
ZN78CW09020POP*	22.0	\$52.00

*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

**FLUX COATED**

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



Part No.	Ag %	Wire Dia.(In.)	Pkg Qty	Price
H76324*	45	1/16	9	\$174.82
H75324*	56	1/16	1	\$21.54
75324*	56	1/16	9	\$211.76

**HIGH SILVER FLUX CORED ROD**

Contains 45% silver and meets the BAg-36 specification. Its primary use would be for joining copper or brass to metals such as brass, steel or stainless, and for joining steel or stainless to steel or stainless. It is a self fluxing rod and does not require additional flux



Part No.	Ag %	Sticks per Tube	Wire Size (In.)	Wire Length (In.)	Price
45TCW25004*	45	4	0.078	19 2/3	\$91.34

**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	Price
H45535*	0	20	\$65.16

**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 Diameter (In.)	Unit Size	Price
H10001*	4	1/8	1 Lb. Spool	\$112.74
H10004*	4	1/16	1 Lb. Spool	\$113.98
H10009*	6	1/8	1 Lb. Spool	\$145.10

TIN SOLDER**GENERAL PURPOSE**

- General purpose solders
- Lead free



Part No.	Ag %	Unit Size	Composition	Price
50/50*	0.1	1 Lb. Spool	xSn/Sb	\$64.00
95/5*		1 Lb. Spool	xSn/Sb	\$56.00

**ALUMINUM SOLDER KIT**

UNI-4300 Aluminum Soft Solder Kit with metal tip flux applicator. Excellent for small pin hole leaks in evaporator coils. Low melting point of 500°F (260°C) and 20,000 PSI tensile strength.



Part No.	Description	Price
P4KD9	Aluminum Repair Kit	\$27.70

FLUX**WHITE PASTE FLUX**

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



Part No.	Container Size	Price
H40022*	7 Oz.	\$12.50
H40021*	1/2 Lb.	\$10.50
H40023*	1 Lb.	\$17.00

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

BRAZING

FLUX

BLACK PASTE FLUX



H40050

Use Stay-Silv® Black Flux on heavy parts, where localized overheating may occur, and where parts are heated over a prolonged period. Stay-Silv® Black Flux is also suggested when brazing stainless steel.



Part No.	Container Size	Price
H40050*	1/2 Lb.	\$16.30

LIQUID



H40002

- Used with silver bearing and tin solders



Part No.	Container Size	Price
H40002*	4 Oz.	\$11.50
H40003*	16 Oz.	\$20.50
H40004*	32 Oz.	\$30.20
H40005*	1 Gal.	\$86.70

STAY CLEAN PASTE



H40027

- Used with silver bearing and tin solders



Part No.	Container Size	Price
H40027*	4 Oz.	\$11.00

FLUX PASTE



RFP4

- Super detergent action cleans as it solders
- Nonacid, nontoxic, lead free
- Contains no zinc chloride
- Water soluble for faster flushing from pipe lines



- Use with all common soft solders
- For use on copper, brass, galvanized iron, lead, zinc, tin, silver, nickel, mild steel, terne plate, and malleable iron.
- Certified to ANSI/NSF Std. 61 for use with potable water

Part No.	Container Size	Case Qty*	Price
RFP4	4 Oz.	48	\$10.04

BRAZING

SOLDERLENE® FLUX



LENE16

- A high quality, paste type, nonacid soldering flux
- Industrial strength wetting agents to promote solder flo
- For use with low and mid-temp. soft solders, both leaded and lead-free



Part No.	Container Size	Case Qty*	Price
LENE4	4 Oz.	12	\$11.50
LENE16	16 Oz.	12	\$28.34

THERMO-TRAP®



437136

Solder, braze and weld without damaging nearby sensitive controls, gaskets, fittings or other equipment Applied to the metal working surface between the area being heated and the material to be protected, Thermo-trap absorbs the heat, preventing heat transfer. This keeps heat from spreading beyond the work area, protecting components, installed fittings and other sensitive parts safe from damage



Part No.	Container Size	Case Qty*	Price
437136	11 Oz Paste	24	\$26.62
437132	32 Fl. Oz., Spray Bottle	12	\$41.84

COOL GEL®



CG11509

- 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 surface



Part No.	Container Size	Case Qty*	Price
CG11509	32 Fl. Oz.	12	\$45.30



RT400P

VIPER WETRAG PUTTY

Viper WetRag is a reusable putty made from the same materials found in the heat shield of the space shuttle.

- Reusable like a Wet Rag
- Protects surfaces, valves and other sensitive parts from heat damage

- Blocks direct and conductive heat transfer
- No mess formula
- Use with MAP/Pro, Oxy/Acetylene, Mig, Tig, Arc and Propane torches
- Non-Toxic



Part No.	Container Size	Price
RT400P	8 Oz.	\$51.44



HC3

C-FLUX®

A lead free, high quality flux containin powdered solder which provides added insurance for a leak free joint.

- Use with tin/antimony soft solders



Part No.	Container Size	Price
HC3	3 Oz	\$8.16
HC12	12 Oz.	\$17.56

SERVICE

NMSC10

MESH CLOTH

- Open mesh sand screen cloth
- 180 Grit



Part No.	Length (Yards)	Price
NMSC5	5	\$11.50
NMSC10	10	\$17.70
NMSC25	25	\$35.90



66510

TUBE CLEANING

Part No.	Length (Yards)	Description	Price
66510	10	Sand Cloth	\$10.10
66525	25	Sand Cloth	\$23.16
A1210	-	Scotch Brite (1 Pad)	\$3.70

FASTENER

N6642

HEX HEAD CAP SCREW

- Grade 2 steel
- Zinc plated



Part No.	Thread Size (In.)	Pkg Qty	Length (In.)	Price
N6601	1/4"-20	24	3/4	\$4.64
N6602	1/4"-20	23	1	\$4.52
N6603	1/4"-20	17	1 1/2	\$4.46
N6621	5/16"-18	17	3/4	\$4.72
N6622	5/16"-18	15	1	\$4.98
N6623	5/16"-18	15	1 1/2	\$4.66
N6641	3/8"-16	11	3/4	\$4.66
N6642	3/8"-16	10	1	\$4.92
N6643	3/8"-16	8	1 1/2	\$5.60
N6644	3/8"-16	6	2	\$4.76
N6682	1/2"-13	7	1	\$5.90
N6683	1/2"-13	5	1 1/2	\$6.16
N6684	1/2"-13	4	2	\$5.94



N6401

STOVE BOLT

- Steel
- Zinc plated
- Nuts included



Part No.	Thread Size (In.)	Pkg Qty	Length (In.)	Price
N6401	3/16"-24	33	1/2	\$4.86
N6402	3/16"-24	30	3/4	\$4.50
N6403	3/16"-24	25	1	\$4.70
N6412	1/4"-20	20	3/4	\$4.72
N6413	1/4"-20	17	1	\$4.98
N6414	1/4"-20	14	1 1/2	\$4.78
N6415	1/4"-20	12	2	\$4.90
N6416	1/4"-20	10	2 1/2	\$5.14

FASTENER



N38WC

FLAT WASHER

- Zinc plated
- N38WC packaged in plastic screwtop jar



Part No.	Pkg Qty	Diameter (In.)	Price
N6701	127	3/16	\$5.10
N6702	86	1/4	\$5.12
N6703	45	5/16	\$4.86
N6704	34	3/8	\$5.06
N38WL	50	3/8	\$6.32
N38WC	100	3/8	\$17.08
N38WII	250	3/8	\$32.22
N6706	16	1/2	\$5.08
N6700A	107	6 Assorted sizes	\$10.94



N6722

FENDER WASHER

- Zinc plated steel



Part No.	Nominal Size (In.)	Pkg Qty	OD (In.)	Price
N6722	1/4	23	1 1/4	\$5.16
N6722C	1/4	100	1 1/4	\$20.78
N6724	3/8	18	1 1/2	\$5.14
N6724C	3/8	100	1 1/2	\$24.64



N6733

SPLIT LOCK WASHER



Part No.	Nominal Size (In.)	Pkg Qty	Price
N6731	1/4	85	\$4.96
N6732	5/16	70	\$4.98
N6733	3/8	48	\$5.60



N6503

FINISHED HEX NUT

- Steel
- Zinc plated



Part No.	Thread Size (In.)	Pkg Qty	Price
N6501	1/4"-20	57	\$4.94
N6501C	1/4"-20	100 (Jar)	\$7.12
N6502	5/16"-18	37	\$4.92
N6503	3/8"-16	26	\$4.88
N38HNL	3/8"-16	50 (Jar)	\$9.06
N38HNII	3/8"-16	250 (Jar)	\$32.22
N38HNC	3/8"-16	100 (Jar)	\$18.88
N6505	1/2"-13	11	\$4.86
N6505L	1/2"-13	50 (Jar)	\$16.04



N6500A

MACHINE SCREW HEX NUT

- Grade 2 steel
- Zinc plated



Part No.	Description	Pkg Qty	Price
N6500A	Assortment, 6-32, 8-32, 10-32	60	\$5.42



N6865

SHEET METAL SCREW

- Slotted hex washer head
- Zinc plated steel



Part No.	Length (In.)	Screw Size	Pkg Qty	Price
N6843H	1/2	8	84	\$6.20
N6845H	3/4	8	70	\$6.96
N6846H	1	8	58	\$6.66
N6855H	3/4	10	52	\$6.72
N6856H	1	10	47	\$6.12
N6858	1 1/2	10	34	\$6.86
N6859	2	10	24	\$7.40
N6865	3/4	12	38	\$6.72
N6865C	3/4	12	100	\$11.78
N6866	1 1/2	12	33	\$6.98



N6858PH

SHEET METAL SCREW, PAN

- Combination: phillips/slotted
- Zinc plated steel



Part No.	Length (In.)	Screw Size	Pkg Qty	Price
N6876	1	14	21	\$4.66
N6858PH	1 1/2	10	29	\$4.58
N6859PH	2	10	21	\$4.68



N6943WHC

SHEET METAL SCREW, PHILLIPS WASHER HEAD

- Self-drilling screw



Part No.	Length (In.)	Screw Size	Pkg Qty	Price
N6943WHC	1/2	8	100	\$6.60
N6943WHD	1/2	8	500	\$28.94



N6955D

SHEET METAL SCREW, TEKS

- TEKS, self-drilling
- Zinc plated steel



Part No.	Length (In.)	Screw Size	Pkg Qty	Price
N6943C	1/2	8	100	\$10.70
N6943D	1/2	8	500	\$30.92
N6945C	3/4	8	100	\$11.76
N6945D	3/4	8	500	\$37.38
N6946C	1	8	100	\$11.86
N6953C	1/2	10	100	\$10.84
N6953D	1/2	10	500	\$36.90
N6955C	3/4	10	100	\$10.20
N6955CHH	3/4 High Hat	10	100	\$10.74
N6955D	3/4	10	500	\$42.88
N6955DHH	3/4 High Hat	10	500	\$47.66
N6955M	3/4	10	1000	\$72.24
N6956C	1	10	100	\$15.02
N6956D	1	10	500	\$46.20
N6966C	1	12	100	\$15.50
N6966D	1	12	500	\$60.68
N6900	3/4 1	12/14	Assorted	\$3.54



N6000

SET SCREW

- Hex socket
- Cup point



Part No.	Description	Pkg Qty	Price
N6000	Assortment, 1/4" - 20, 5/16" - 18, 3/8" - 16	16	\$11.60
N6001	Assortment, 8 - 32, 10 - 32, 1/4"-28	23	\$11.58



N7033

TOGGLE BOLT

- Zinc plated steel



Part No.	Length (In.)	Bolt Size (In.)	Pkg Qty	Price
N7033	4	3/16	6	\$5.30
N7034	4	1/4	5	\$6.10
N7036X	4	3/8	4	\$10.08
N7063	6	3/16	5	\$5.32
N7066X	6	3/8	4	\$11.76



N7124BC

ANCHOR KIT



Part No.	Description	Pkg Qty	Price
N7101C	with 8-10 x 7/8" Blue Plastic Conical Anchors and 3/16" x 4" Masonry Drill Bit	100	\$11.26
N7104BC	with 7-9 x 1" Red Straight Fluted Anchors and 3/16" x 4" Masonry Drill Bit	100	\$13.82
N7106BC	with 10-12 x 1" Green Straight Fluted Anchors and 1/4" x 4" Masonry Drill Bit	100	\$21.50
N7124BC	with Grey Lip Anchors and 1/4" x 4" Masonry Drill Bit	100	\$20.46
N7102C	with 10-12 x 1" Blue Plastic Conical Anchors and 1/4" x 4" Masonry Drill Bit	100	\$17.42
N7111C	with 14 x 1" Blue Straight Fluted Anchors and 5/16" x 4" Masonry Drill Bit	100	\$30.86
N7103C	with 6-8 x 3/4" Blue Plastic Conical Anchors and 5/32" x 3" Masonry Drill Bit	100	\$9.38

FASTENER

MOLLY SCREW



N7303



Part No.	Pkg Qty	Price
N7302	6	\$4.72
N7303	6	\$6.16

TAPCON KIT



NTK14



- Hex washer head tapcons with drill bit

Part No.	Description	Pkg Qty	Price
NTK14	Tapcon, 1/4" x 1 1/4"	25	\$19.14
NTK34	Tapcon, 1/4" x 1 3/4"	25	\$21.50

DROP-IN THREADED ANCHOR



NSD38



- For concrete

Part No.	Description	Pkg Qty	Price
NSD14	Steel Drop In Anchor, 1/4"	4	\$6.58
NSD38	Steel Drop In Anchor, 3/8"	25	\$25.92
NDIT14	Setting Tool for 1/4" Drop-Ins	1	\$8.74
NDIT38	Setting Tool for 3/8" Drop-Ins	1	\$9.54

SHEET METAL SCREW, ZIP



N6933M



- Hex head
- Self-piercing
- Zinc plated steel

Part No.	Length (In.)	Screw Size	Pkg Qty	Price
N6933C	1/2	8	100	\$6.28
N6933M	1/2	8	1000	\$42.46
N6853Z	1/2	10	51	\$4.32
N6845Z	3/4	8	55	\$4.46
N6845ZM	3/4	8	1000	\$48.40



NPK92

SELF DRILL ANCHOR KIT

- Phillips pan head sheet metal screws
- Plastic self drilling anchors ideal for drywall installations



Part No.	Description	Pkg Qty	Price
N7317L	Plastic with 6 x 1-1/4" Screws	50	\$16.46
NPK92	Plastic with 8 x 1-1/4" Screws	50	\$23.80
NZK92	EZ-Anchor Zinc with 8 x 1-1/4" Screws	50	\$41.72

WEDGE ANCHOR KIT

- With drill bit



NWK38



Part No.	Description	Pkg Qty	Price
NWK38	3/8" x 2 3/4" Wedge Anchor with 3/8" x 4" Masonry Drill Bit	20	\$34.20

MOTOR SHAFT KEY



N6101



Part No.	Description	Price
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)	\$15.36
N6102	Large assortment: 1/4 x 1 3/4" (3), 5/16 x 3" (2), 3/8 x 3" (2)	\$16.40

HOSE CLAMP

- Stainless steel band, housing
- Plated steel screw



N6202



Part No.	SAE Number	Diameter (In.)		Pkg Qty	Price
		Min	Max		
N6202	—	0.25	0.62	6	\$10.20
N6203	6	0.44	0.78	6	\$10.70
N5410	10	0.56	1.06	6	\$12.50
N5416	16	0.81	1.5	6	\$12.70
N5420	20	0.81	1.75	6	\$12.80
N5424	24	1.06	2.0	6	\$13.80
N5436	36	1.81	2.75	4	\$9.80



N6011

COTTER PIN



Part No.	Description	Pkg Qty	Price
N6011	Assortment, 1/16 - 1", 3/32 x 1 1/2"	66	\$7.06



P08X2ZW50

REGISTER SCREW, ZIP-IN®

- Oval phillips slot
- Painted white



Part No.	Thread Size (In.)	Length (In.)	Pkg Qty	Price
P08X2ZW50	8	2	50	\$10.48
P08X2ZW250	8	2	250	\$49.86



BT143

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.)	Length (In.)	Hex Size (In.)	Pkg Qty	Price
BT131T	8	1/2	1/4	1000	\$71.76
BT131100	8	1/2	1/4	100	\$10.84
BT133100	8	3/4	1/4	100	\$10.84
BT134	8	1	1/4	500	\$58.00
BT134100	8	1	1/4	100	\$13.40
BT141	10	1/2	5/16	500	\$51.42
BT141100	10	1/2	5/16	100	\$12.34
BT143	10	3/4	5/16	500	\$55.18
BT143100	10	3/4	5/16	100	\$12.60
BT144100	10	1	5/16	100	\$17.18
BT153100 ¹	10	3/4	5/16	100	\$17.40
BT163100	12	3/4	5/16	100	\$22.54

¹24 tpi

HW8X1/2Z

SHEET METAL SCREW, ZIP-IN®

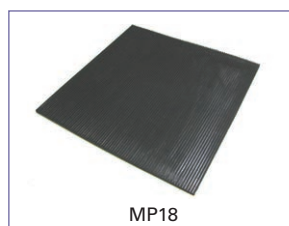
A single starting thread is machined down to the very tip of the point and is the source of Zip-In's® penetrating power. A second thread above the point engages after initial penetration and moves the screw in double fast.

- 1/4" hex size



Part No.	Thread Size (In.)	Length (In.)	Pkg Qty	Price
HW8X1/2Z	8	1/2	1,000	\$47.08
HW8X3/4Z	8	3/4	1,000	\$61.24
HW8X1Z500	8	1	500	\$38.62
HW8X2Z250	8	2	250	\$35.64
HW10X3/4Z	10	3/4	1,000	\$82.66
HW10X1Z100	10	1	100	\$12.10

VIBRATION DAMPENING



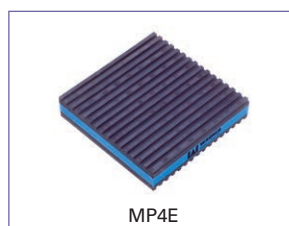
MP18

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.	Dimensions (In.)			Composition	Price
	L	W	Thickness		
MP18*	18	18	3/8	Rubber	\$32.44
MP2C*	2	2	7/8	Rubber/Cork	\$0.74
MP3C*	3	3	7/8	Rubber/Cork	\$1.60
MP4C*	4	4	7/8	Rubber/Cork	\$2.88
MP6C*	6	6	7/8	Rubber/Cork	\$6.00
MP18C*	18	18	7/8	Rubber/Cork	\$57.74



MP4E

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.	Dimensions (In.)			Price
	L	W	Thickness	
MP2E*	2	2	7/8	\$0.90
MP3E*	3	3	7/8	\$2.52
MP4E*	4	4	7/8	\$4.66
MP6E*	6	6	7/8	\$8.60
MP-18E*	18	18	7/8	\$87.20

*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

VIBRATION DAMPENING



SUPERWPAD

WAFFLE PAD

For noise and vibration reduction. Increased deflection from waffle design. Suction cup design does not walk.

- 3/4" thick
- Load rating: 180 lbs./2" square

- 2" squares with thin connecting web for easy separation into proper size

Part No.	Dimensions (In.)			Price
	L	W	H	
SUPERWPAD*	18	18		\$83.42
R2X2SW*	2	2		\$2.30



HDAGREEN

NEOPRENE HANGER

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

- Double deflection neoprene element



Part No.	Rated Capacity (Lbs.)	Dimensions (In.)			Price
		D	W	H	
HDGREEN	<35	1 3/4	1 7/8	2 1/4	\$46.00
HDABBLACK	<45	2	2 1/4	2 3/4	\$57.60
HDAGREEN	30 to 75	2	2 1/4	2 3/4	\$57.60
HDARED	60 to 125	2	2 1/4	2 3/4	\$57.60
HDBRED	<235	3 1/4	4 1/4	4 1/2	\$128.40



NDARED

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.	Max. Load (Lbs)	Dimensions (In.)			Price
		L	W	H	
NDABBLACK	45	3 3/16	1 11/16	1 1/2	\$43.20
NDAGREEN	75	3 3/16	1 11/16	1 1/2	\$43.20
NDARED	125	3 3/16	1 11/16	1 1/2	\$43.20
NDBGREEN	150	3 7/8	2 5/16	1 7/8	\$75.20
NDBRED	235	3 7/8	2 5/16	1 7/8	\$75.20
NDBWHITE	380	3 7/8	2 5/16	1 7/8	\$75.20



SLFHA200

UNHOUSED SPRING MOUNT

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

- With baseplate



Part No.	Capacity (Lbs.)	Dimensions (In.)			Price
		L	W	H	
SLFHA125	125	3 5/8	2 1/4	4 1/4	\$160.80
SLFHA200	200	3 5/8	2 1/4	4 1/4	\$160.80



HG50

ISOLATION WASHER BUSHING

Minimum isolation where mounts or hangers are not required.



Part No.	Bolt Diameter (In.)	Price
HG38	3/8	\$13.20
HG50	1/2	\$13.60

HVACR TAPE



5T560

UL STANDARD 181B-FX

Single coated, economy grade UL181BFX listed tape. Non cloth alternative. Hand tearable, single ply.

- Thickness: 3.1 mils
- Adhesion to steel: 35 oz./in.
- Tensile strength: 26 lbs./in.



Part No.	Finish	Width (In.)	Price
5T560	Black	2	\$26.94
5T550	Metalized	2	\$26.94



1507B

PIPE LINE SET

UV resistant, bi-axially oriented polypropylene tape coated with cold weather solvent acrylic adhesive. Lasts longer than cloth duct tape and will not delaminate with age. Waterproof, weatherproof, designed for use in refrigerators and freezers

- Thickness: 3.0 mils, Tensile strength: 22 lbs./in.
- Peel adhesion: 41 oz./in.
- Elongation: 150%
- Temperature range: -35°F to 260°F



Part No.	Finish	Thickness (Mils)	Roll Length (yd)	Width (In.)	Price
1507B	Black	3.0	0.0	2	\$16.56
1507S	Silver	3.0	0.0	2	\$20.86
1507W	White	3.0	0.0	2	\$20.86

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



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.

- Thickness: 22 mils, Tensile strength: 10 lbs./in.
- Elongation: 900% ASTM D 822
- Temperature range: -40°F to 180°F



Part No.	Finish	Thickness (Mils)	Roll Length (yd)	Width (In.)	Price
326380	White (none-gloss)	3.0	5.0	6	\$90.30



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

- Thickness: 6.0 mils
- Peel adhesion: 55 oz./in.
- Tensile strength: 68 lbs./in.
- Elongation: 166%
- Temperature range: -10°F to 248°F



Part No.	Finish	Thickness (Mils)	Roll Length (yd)	Width (In.)	Price
1577CWE	Embossed Aluminum	6.0	5.0	4	\$76.00
1577CWW	White	6.0	5.0	4	\$76.00

CLOTH DUCT TAPE

These cloth duct tapes all have a backing of waterproof polyethylene film with a carrier of polyester/cotton blend and a natural rubber adhesive, up to 10% elongation and a maximum temperature of 200°F.



GENERAL PURPOSE GRADE

- Tensile strength: 20 lbs./in. width
- Adhesion to stainless steel: 50 oz./in. width
- Thickness: 10.0 mils
- Applications: HVAC industry on sheet metal and flex duct, asbestos abatement industry, waterproof packaging, sealing, seaming, holding and bundling



Part No.	Finish	Width (In.)	Price
5T321	White	2	\$22.00



HVAC PREMIUM GRADE

- Tensile strength: 29 lbs./in. width
- Adhesion to stainless steel: 49 oz./in. width
- Thickness: 12 mils
- Applications: HVAC applications to seal, seam, splice and hold sheet metal and flex duct, thermal

insulation, preformed insulation, exhaust vents, fibrous filter bank and air pollution systems.



Part No.	Finish	Width (In.)	Price
1T355	Silver	2	\$27.78
1T375	Silver	3	\$41.70
1T365	Black	2	\$27.78



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



Part No.	Finish	Width (In.)	Price
1T380	Black	2	\$56.70



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.

- Thickness: 14 mils
- Tensile strength: 45 lbs./in. width
- Elongation: 8%
- Adhesion to stainless steel: 50 oz./in. width
- Applications: designed specifically for the HVAC industry for use on all class 1 flexible duct connection



Part No.	Finish	Width (In.)	Price
1T410	Black	2	\$45.10
1T420	Grey	2	\$45.10
1T400	Metalized	2	\$45.10

CLOTH DUCT TAPE



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.	Finish	Width (In.)	Price
1T500	Metalized	2	\$30.70
1T510	Metalized	3	\$46.04

ALUMINUM FOIL TAPE



HVAC, UL181

- Backing: 2.0-mil, dead soft aluminum foil
- Adhesive: clear acrylic
- Tensile strength: 25 lbs./in. width
- Adhesion to stainless steel: 60 oz./in. width

- Thickness: 4.0 mils
- Elongation: 2%
- Service temperature range: -20°F to 250°F
- Applications: HVAC industry for joining and sealing fiberglass duct board joints and seams
- Excellent adhesion
- Resists water vapor and other HVAC duct contaminants
- UL 181 A-P listed

Nashua Tape Products

Part No.	Finish	Width (In.)	Price
1T125	Foil	2 1/2	\$46.10
1T130	Foil	3	\$55.42



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.	Finish	Width (In.)	Price
1T220	Foil	2	\$21.56
1T225	Foil	2 1/2	\$27.00
1T230	Foil	3	\$32.42



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.	Finish	Width (In.)	Price
1T250	Scrim	2	\$24.40
1T260	Scrim	3	\$36.62

ELECTRICAL TAPE



34X66E

NRP NATIONAL REFRIGERATION PRODUCTS

Part No.	Thickness (Mils)	Roll Length (yd)	Width (In.)	Price
34X72G*	7.0	6.0	3/4	\$2.26
34X66E	7.0	6.0	3/4	\$14.48
34X66B	7.0	6.0	3/4	\$13.48
34X66BR	7.0	6.0	3/4	\$13.48
34X66G	7.0	6.0	3/4	\$13.48
34X66GR	7.0	6.0	3/4	\$13.48
34X66O	7.0	6.0	3/4	\$13.48
34X66P	7.0	6.0	3/4	\$13.42
34X66R	7.0	6.0	3/4	\$13.48
34X66Y	7.0	6.0	3/4	\$13.48

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

SPECIAL PURPOSE TAPE



12X600T

TEFLON TAPE

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



Part No.	Thickness (Mils)	Roll Length (yd)	Width (In.)	Price
12X600T	3.0	4.4	1/2	\$3.26



5T540

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.)	Price
5T530	2	\$54.26
5T540	3	\$81.22

INSULATION



N5

TAPE

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



Part No.	Description	Width (In.)	Price
N5	Pressure Sensitive Foam Roll	2	\$24.70
NRP1	Rubber Asphalt Cork Roll	2	\$31.28



NRP2

SEALING COMPOUND

- Nondrying synthetic polymer
- Off white color



Part No.	Description	Case Qty*	Price
NRP2	Sealing Gum, 2 Lb. Slug/Box	24	\$18.66
NRP38	Sealing Cord, 3/8" Bead, 25'	12	\$21.48



IF1212

AEROSOL

- Economically insulates, seals, bonds and retrofits. Stops air infiltration
- Meets major building codes
- Cured foam can be trimmed, sanded and painted

- Excellent shelf life-guaranteed quick delivery
- Tack-free bond in less than 10 minutes
- Fully cured bead in approximately 1 hour
- HCFC formula
- UL classifie



Part No.	Container Size	Yield Linear Ft 3/8" Bead	Yield (Ft. ³)	Case Qty*	Price
IF1212*	12 Oz.	780	0.6	12	\$16.60
FF24*	24 Oz.	1560	1.2	12	\$29.80

HAND CLEANER



436687

SCRUBS™

- Famous Scrubs hand cleaner towel



Part No.	Container Size	Description	Case Qty*	Price
436687	72 Sheets	Moistened Scrubs	6	\$56.74



2215

CLENHANDS

Premium, citrus-based lotion hand cleaners, that quickly dissolve dirt, grease, fuel oil, pipe dope, resin, ink, paint, glue, rubber gasket and tile cements and many other hard-to-remove soils.

- Environmentally friendly: biodegradable, VOC-compliant.
- For use with or without water



Part No.	Container Size	Description	Price
2215	15 Fl. Oz. bottle	ClenHands Orange Crush™	\$11.30

*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

MISCELLANEOUS

GASKET



30X30RED

RED RUBBER

Styrene butadiene rubber or red rubber is an economical rubber compound recommended for a variety of low pressure applications in hot or cold water.

- Tensile strength: 400 psi
- Temperature range: -20°F to +170°F

Part No.	Width (In.)	Length (In.)	Thickness (In.)	Price
30X30RED	36	30	1/8	\$45.42



30X30X116

SHEET PACKING

- Non asbestos compressed sheet packing
- Nitrile binder
- For use against gases, water, steam, organic acids, alkalis, aromatic and aliphatic hydrocarbons, oils, greases and refrigerants

- Temperature range maximum: 750°F
- Pressure range maximum: 1,200 psi
- Tensile strength (against grain): 2,000 psi
- Suitable for compressor/refrigerant flange seal

Part No.	Width (In.)	Length (In.)	Thickness (In.)	Price
30X30X116	30	30	1/16	\$48.72
30X30X132	30	30	1/32	\$28.98
30X30X164	30	30	1/64	\$22.52

ROOFTOP UMBRELLA



MUKIT

ROOFTOP UMBRELLA

Stay in the shade on scorching rooftops, and keep tools dry during rainy repairs

- Includes umbrella (MUUMB) and magnetic base (MUBASE)
- Waterproof umbrella with durable & flexible fiberglass ri

- Base Swivels and locks
- Heavy duty magnet attaches securely to any metal housing and holds up to 210 lbs



Part No.	Description	Price
MUKIT*	Magnetic umbrella, 60" inch open width	\$150.00

WATER HOSE FITTING



58125

HEAVY DUTY GARDEN HOSE

- 5/8" premium heavy duty garden hose

Part No.	Length (Ft.)	Price
58125	25.0	\$45.28
58150	50.0	\$76.44
58175	75.0	\$110.48



A810

SPRAY NOZZLE

Slip Seal's Adjust-A-Power Nozzle produces 50% more power than twist grip nozzles. Adjust-A-Power adjusts from positive off, to a needle spray and to a power jet stream. This precision ball-bearing design is ideal for cleaning air-conditioner coils. Gasketed from tip

to intake, it cannot leak like conventional style nozzles.

Part No.	Description	Price
A810*	Solid brass, 50% more power, leakproof	\$25.94



127

CONNECTION MALE THREAD

- Male tapered iron pipe thread or hose thread to male hose thread

Part No.	Connection Type	Price
129128*	1/2 MPT x 3/4 MHT	\$5.36
1291212	3/4 MPT x 3/4 MHT	\$5.20
127	3/4 MHT x 3/4 MHT	\$5.20



128S8

CONNECTION FEMALE SWIVEL

- Female tapered iron pipe thread or hose thread to female swivel hose thread

Part No.	Connection Type	Price
128S8	1/2 FPT x 3/4 FHT	\$9.70
128S12	3/4 FPT x 3/4 FHT	\$9.60
132S*	3/4 FHT x 3/4 FHT	\$5.20

ACCESSORIES



573C



Part No.	Description	Price
573C*	Spray Nozzle, Lever Type, Zinc	\$19.64
01CW*	Hose Washer, 10 Pc.	\$4.84
215Z	Hose Thread Cap, Pr.	\$3.20

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	Price
69092*	Heat Gun Kit 115V. 600° and 1000°F Settings	\$254.94

MATERIAL TRANSPORT



A1HIJACK

ECONOMY

Simple frame, sectional lift post, lever type jack mechanism.

- Maximum load: 500 lbs.



Part No.	Max. Height (Ft.)	Max. Load (Lbs)	Price
A1HIJACK	15	500	\$1,998.00



512A

UL LISTED

Medium duty 20" x 24" platform area. Model 512 has stabilizing bars, model 520 has outrigger and guy wire assemblies. Two handle crank winch assembly with automatic brake.

- Maximum load 500 lbs.



Part No.	Max. Height (Ft.)	Max. Load (Lbs)	Price
512A	12	500	\$3,150.00
520A	20	500	\$3,678.00

GAS GENERATOR



G65KW

- G6.5KW: Output 6.5 KW Peak, 5.5 KW continuous, 13 HP
- G7.5KW: Output 7.5 KW Peak, 7.0 KW continuous, 16 HP
- Electric start
- 1 cylinder engine, 4 stroke, OHV
- Low oil shutdown

- Automatic idle and voltage regulation
- Fuel level indicator; 89 octane or above
- 120Vac, 230Vac & 12 Vdc outlets
- Electrical connectors included
- UL electrical parts; EPA and CARB certifie



Part No.	HP	Description	Price
G6.5KW	13	Gas Generator, 6.5 KW	\$1,720.00

Part No.	Description	Price
215018	Idle Electromatic Valve	\$60.00
215077	Battery	\$182.00
215074	Tire for Generator	\$80.00

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	Price
04030*	White	\$6.82
04031*	Yellow	\$6.82
04033*	Black	\$6.82
04034*	Red	\$6.82
04035*	Orange	\$6.82
04036*	Blue	\$6.82
04037*	Green	\$6.82
04041*	Purple	\$6.82

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