

TOOLS, INSTRUMENTS AND EQUIPMENT FOR THE HVAC/R INDUSTRY

2016 PRODUCT CATALOG 2nd Edition

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Pro-Set

Tech-Set



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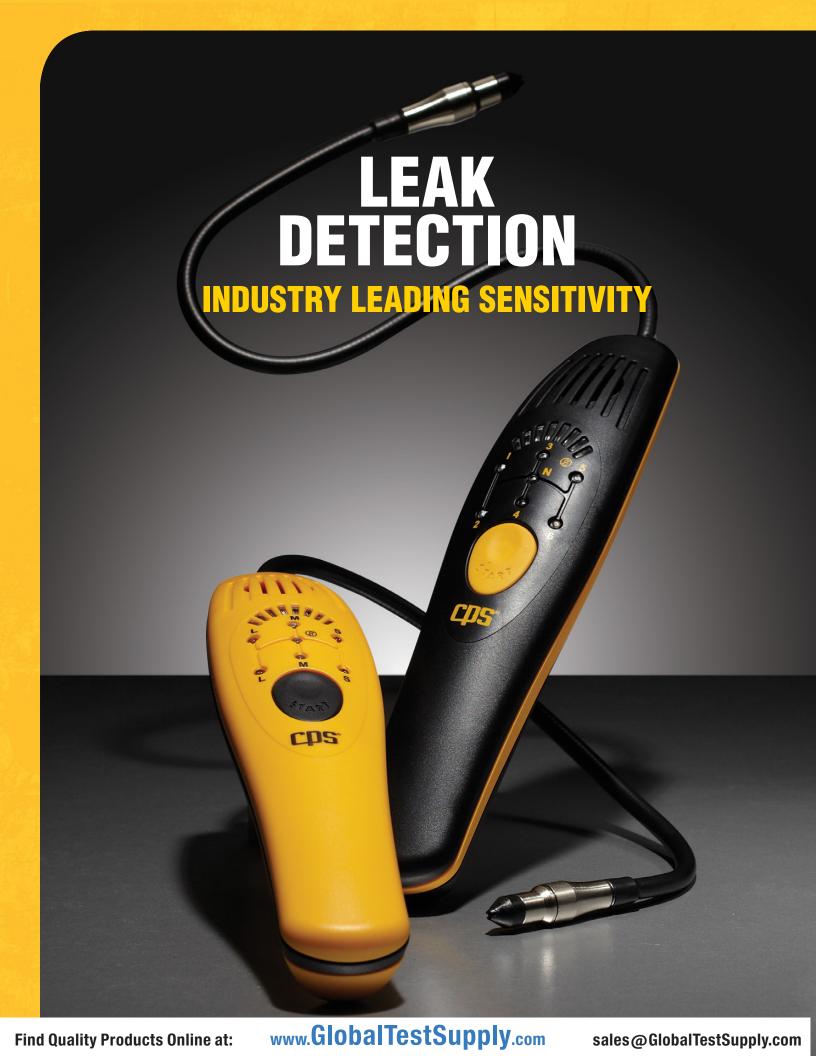
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Revolutionary E MOS® Technology developed by CPS is more sensitive, stable and accurate than any other detection method on the market.

with

*U.S. Patent # 8,555,701

- Microprocessor controlled sensor improves sensitivity and reduces false alarms
- · Detects refrigerants including those with hydrocarbon components (CFC, CH2F2, HCFC, HFC, HFO, NH3, HC. Hydrogen trace gas in 95% N2, 5% H2 mixture A2L refrigerants)
- Visual tachometer-like bar graph display with 8 high intensity LEDs
- · Optimal leak-finding performance under a broad range of conditions
- Meets or exceeds all U.S. and international standards for automotive and commercial use
- Ergonomic, high-impact housing

LEAK SEEKER® I **Progressive Alarm Mode:**

Alarm pitch and number of lighted LEDs progressively increase as the leak source is approached. Allows searching for a broad range of leak sizes.

Threshold Alarm Mode:

Provides a quick go, no/go verifying a leak has been found and approximate size.

LEAK SEEKER® II

- Simply Turn It On And Pinpoint The Leak. Simple, intuitive bar graph LED display
- 56 levels of sensitivity automatically selected by proprietary Powershift[™] software with 2 user selectable alarm ranges

The world's only leak detector with fully automatic sensitivity selection and control

	Encode y Technology
1	15.5" flexible metal probe for hard-to- reach areas
	LEAK-SEEKER 1& II with patented ENOS Technology *U.S. Patent # 8,555,701 High output alarm speaker
L	Six sensitivity levels, automatically
a	levels, automatically selected by instrument Bar graph displays relative leak size
6	CDS One button operation for reset, changing of audible alarm range, and power off
	LEAK-SEEKER® I

151 LEAK-SEEKER® I (Ų_) CE C N11445

REPLACEMENT	PARTS

EMOS2

LS2XF

LS2XVF

LSXC3

PARTS	ltem	LS1 Leak-Seeker® I	LS2 Leak-Seeker® II
	Sensitivity	Better than 0.1 oz (3g) / year	
E_MOS Technology Sensor	Sensitivity Selection	Manual	Fully automatic
	Operating Temperature	0 to 140°F (-18 to 60°C)	
E_MOS Technology Sensor Filters	Auto-Off	Yes, after 10 minutes of inactivity	
(10-Pk)	Power (Battery Life)	3 "C" batteries (>50 hr continuous use)	
Vapor Filter Sensing Tip	Low Battery Indication	Green (middle) LED turns off when batteries at 10% capacity	Rightmost (No Battery) LED stays on when batteries at 10% capacity
	Sensor Life	>500 hr continuous use	
Maldad Carping Case	Weight	18 oz (500g)	
Molded Carrying Case	Warranty	1 year	2 years

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F-Gas Compliant

(ENG 14624:2005)

Sensor inside protective

LEAK-SEEKER® ELECTRONIC REFRIGERANT LEAK DETECTORS WITH ION-PUMP® SENSOR TECHNOLOGY

Combines microcomputer circuitry with field-proven lon-Pump® sensor technology creating a highly sensitive and accurate electronic refrigerant leak detector. 128 computergenerated tones and display alerts the user to varying halogen concentrations. Leak-Seekers are designed and manufactured in the USA with U.S. and globally sourced components.



REPLACEMENT PARTS FOR LS780A* LS780B*LS780C LS790A*LS790B LS3000*LS3000B*

LSXSF	Selective Filter Housing
LSXBMK	Maintenance Kit: (1) LSXS + (1) LSXSF (replaces LSXMK)
LSXS	Ion-Pump Sensor
LSXBC <	Battery Compartment Cover (Yellow)
LSXC 🔎	Fabric Carrying Case
LSXE 💝	Earphone



Item	Tech-Set [™] LS780C	Leak-Seeker [®] LS790B	
Detector Type	Proprietary Ion-Pump sensor with built-in selective filter housing		
Sensitivity	Better than 0.25 oz (7g)	/ year leak rate of HFC	
Sensitivity Selection	Man	ual	
Refrigerant Sensitivity	All, including those with h (CFC, HCFC, HFC)	ydrocarbon components , HFO, NH3, HC)	
Visual Alarm	High intensity LED (Varies in brightness)	High intensity bar graph display	
Flex Probe	18 ^{°'} long metal flex probe		
Operating Temperature	0 to 140°F (-18 to 60°C)		
Controls	OFF, LO & HI sensitivity modes	6 button keypad	
Power (Battery Life)	(4) AA alkaline batteries (>40 hr continuous use)		
Weight	18 oz (500g)		
Audible Alarms	128 computer generated tones to precisely guide user to the source of the leak		
Lock-Out Mode	N/A	Yes	
Low Battery Indication	Center LED above "★" lights during operation		
Auto-Off	No	Yes, after 15 minutes of inactivity	
Sensor Life	Replace seasonally		
Warranty	1 year	2 years	

* Discontinued model



GS40 GAS-SEEKER® PORTABLE COMBUSTIBLE GAS DETECTOR

The GS40 is a low maintenance, easyto-use portable combustible gas leak detector engineered to pinpoint leaks in residential, commercial and industrial appliances. Advanced semiconductor sensor and electronic control package enables detection of gases commonly found in service applications including; carbon monoxide, natural gas, propane, ammonia, methane, acetone, hydrogen and iso-butane, with a virtually instantaneous alarm response period. Applications include the inspection of furnaces, valves, regulators, pipelines, meters and other devices associated with combustible gases. The GS40 is designed and manufactured in USA with U.S. and globally sourced components.

GS40 Specifications			
Detecting Range	0 - 100% LEL referenced to methane.		
Alarm Indication	Both visual and audible (>40db) alarm indicators		
Low Level Alarm	Preset at 10% Methane LEL		
High Level Alarm	Preset at 30% Methane LEL		
Operating Conditions	0°F to 140°F (-20°C to +40°C) at less than 98% RH (non-condensing)		
Power	3VDC working voltage using four 1.5V AA batteries		
Battery Life/Indicator	20 hr continuous use. Orange LED constant on when low battery		
Sampling	Natural diffusion		
Dimensions	7.2" x 0.71" (183 x 18 mm)		
Weight	18 oz (500g) including battery		

REPLACEMENT PARTS

RMX12		Replacement Sensor
	LSXC	Fabric Carrying Case
	LSXE -	Earphone

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RM SERIES REFRIGERANT MONITORS

Compact, highly reliable, yet economical refrigerant leak monitoring system designed to monitor a <u>single refrigerant</u> in a single zone. Provides early audible and visual warning of refrigerant leakage with adjustable sensitivity settings between 100 to 1000 PPM with an auxiliary 1/2 HP N.O. and N.C. dry contact control function for operating an additional alarm or other safety device. Replacement sensors are interchangeable enabling the replacement of a failed sensor directly in the field without recalibration, minimizing downtime.

RM SERIES Specifications				
Sensitivity	100 to 1,000 ppm			
Accuracy	$\pm 3\%$ of setting (or ± 25 ppm)			
Visual Alarms	High intensity LED display			
Audible Alarm	85 dB @ 12″			
Operating Temperature (Control Module & Sensor)	14 to 150°F (-10 to 65°C)			
Relative Humidity Range (Control Model & Sensor)	10 to 95% (Non-condensing)			
Power	12 to 24V AC or DC			
Sensor Failure Indicator	Visual indication in control module			
Weight	18 oz (500 g)			
Warranty	1 year			



RM Refrigerant Monitor Control Box and Sensor Housing



Refrigerant Monitor	Detects Refrigerant	Replacement Sensor
RM134	R-134	RMX12
RM22	R-22	RMX11
RM404	R-404	RMX12
RM407	R-407	RMX11
RM407a	R-407A	RMX12
RM410	R-410A	RMX12
RM502	R-502	RMX12
RM507	R-507A	RMX12

UV55 TECH-SET[™] DYE BASED REFRIGERANT LEAK DETECTION KIT

Refrigerant leaks are the number one cause of poor <u>A/C cooling.</u> Having the correct amount of refrigerant in an A/C system is critical to achieve proper cooling. Any loss of refrigerant will reduce a system's ability to transfer heat, causing the compressor to work harder and the system to cool less efficiently. Therefore, finding and fixing refrigerant leaks is more important than ever before.

The Tech-Set[™] **UV55** Leak Detection Kit enables you to conduct a fast, easy, mess-free air conditioning "leakdown" test whereby an orange, universal dye is injected into a closed (sealed) A/C system under full pressure. The orange dye will be visible under a "correctly tuned" ultraviolet light at the point of a leak anywhere in the system. Included in this detection kit are the following:

- MoonLight[™] flashlight with 9 true ultraviolet LEDs
- Operates 8 hr (continuous on)
- Instant "ON" with no heat produced
- Compact, durable, anodized aluminum flashlight body
- Works with all common dye additives
- 3 AAA batteries
- MoonShine[™] blue light-blocking glasses
- Mess-free and easy-to-use Squeeze Gun[™] injector
- UVS2 universal (orange) OEM approved dye cartridge
- R-34a 90° low side snap coupler
- Molded carrying case with internal padding
- Operating instructions



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UVPRO KIT INCLUDES BOTH MOONLIGHT[™] FLASHLIGHT AND MOONSHINE[™] GLASSES

Our MoonLight flashlight is the most compact and efficient ultraviolet light we have ever designed. It contains nine high intensity, true ultraviolet LEDs engineered to maximize the fluorescing capabilities of today's most commonly used detection dyes in AC systems, while reducing the amount of "nuisance" background blue light emitted.

MoonLight components are housed in a rugged, anodized aluminum body with an o-ring sealed battery compartment that will stand up to harsh field conditions.

- MoonLight flashlight with 9, true ultraviolet ٠ emitting LEDs
- Operates 8 hr (continuous on)
- Inspection range up to 3' (0.9 m)
- 100,000 hour LED life
- Instant "ON" with no heat produced
- Compact, durable, anodized, lightweight aluminum flashlight body
- Works with all common dye additives
- 3 AAA batteries

MOONSHINE[™] BLUE-LIGHT BLOCKING **GLASSES (included with UVPRO kit)**

MoonShine glasses, when used in conjunction with the MoonLight flashlight, block the remaining amount of visible blue light, which provides an ideal means of viewing a fluorescing dye that might leak from a closed, pressurized AC system, indicating where a repair is needed.



ACCESSORIES FOR UV LEAK DETECTION

UVXG	UV Enhancing Safety Glasses
UVS5	Squeeze-Injector Universal Automotive Dye-Cartridges (4 Pk),(1 cartridge = 5 Applications)
UVAL	50W 90° Auto Swivel Light w/ Battery Clips
UVMINI	Clip-on UV light
UVXB	12V Rechargeable Battery Pack for 50W or 100W Light
UVXBC	Battery Carrying Case
UVXBLB	UV Bulb for 50W Light
UVXC	110V Battery Charger



UVUDS MOONSHINE™ UNIVERSAL REFRIGERANT DYE

- 1 oz (30 ml)
- Works with alkyl benzene, PAG, ester and mineral oil
- Lowest cost per application



UVUD6 MOONSHINE[™] **UNIVERSAL REFRIGERANT DYE**

- 8 oz (237 ml)
- Works with alkyl benzene, PAG, ester and mineral oil
- Lowest cost per application
- Excellent for large systems





32 oz (946 ml)

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MOONSHINE™ PREFILLED/ DISPOSABLE REFRIGERANT DYE CAPSULES AND CARTRIDGES

- Universal OEM
 approved dye formula
- Cleanest, easiest and fastest method of injection
- 4 sizes to match capacity of system
- Eliminate air entering system
- Eliminates overinjection of dye
- All dyes include I.D. labels
- All MoonShine dye meets SAE J2297 standard

AC System Size	For Refrigerant Charge Size	Refrigerant Oil	MoonShine™ Capsule (Qty. 6)	MoonShine™ Squeeze Cartridges (Qty. 6)
SMALL Ice machines, window AC units, autos, refrigerators	Up to 2.9 lb (1.3 kg)	Up to 15 oz (.44 L)	UV101	UVS101 (Gold)
MEDIUM Residential systems	3 to 4.9 lb (1.4 to 2.2 kg)	16 oz to 1.6 qt. (.45 to 1.8 L)	UV1	UVS1 (Purple)
MEDIUM- LARGE Light commercial and large residential systems	5 to 9.9 lb (2.3 to 4.5 kg)	1.7qt. to 3.2 qt. (1.9 to 3.7 L)		UVVST (Fullpie)
LARGE Commercial and light industrial, including all split systems	10 to 25 lb (4.6 to 11.4 kg)	3.3 qt. to 2 gal. (3.8 to 9.1 L)	UV3	UNIVERSAL A/C OVE CARTENOL UNIVERSAL A/C OVE CARTENOL

SQUEEZE GUN UNIVERSAL DYE INJECTORS

The squeeze gun injection system is the easiest, cleanest and fastest method of injecting dye into a system. Simply match the appropriate pre-filled, pre-measured universal dye cartridge with the size of the system being serviced place it into the squeeze injector system, make your connection and inject the dye. It's that simple.





Step 1: Load cartridge.



Step 2: Connect and bleed hose.



Step 3: Inject, then discard empty cartridge.

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OPTINAM AC/R CHEMICAL TOOLS DETECT, PROTECT, REPAIR AND ENHANCE



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eBOOST[™] Professional AC/R **Chemical Tools**

• Treat up to 6 tons

- Contains 1/4" & 5/16" clear hose adapters
- Safe and effective for all systems
- Color coded, trilingual (English, French, Spanish) sealed clamshell packaging
- · Fast results, easy to use



eBOOST[™] AC/R **Performance Enhancer**

- Boosts cold air output
- For a cooler, quieter, longer running compressor
- Restores older AC/R systems to original efficiencies
- · Increases lubricity of compressor oil
- Reduces compressor friction, vibration and noise **OPEB6S**



eBOOST[™] AC/R De-Icer

- Resolves frozen AC/R systems
- Compatible with all refrigerant gases (including CFC, HFC and HCFC)
- Won't affect performance of refrigerant gas
- Neutralizes and prevents formation of acids

OPEBF6S



eB00ST[™] Moisture Remover

- Eliminates system moisture
- Compatible with all AB, mineral, PEI and PAG oils in refrigeration systems
- Won't break down or leave behind particulate matter, including acids, gels or polymers **OPEBA6S**



eBOOST[™] AC/R Acid Neutralizer

- Neutralizes ands prevents acids from forming in AC/R systems due to refrigerant or refrigerant oil break down, compressor burnout or moisture.
- Excellent for preventing or treating acid build up, or after compressor burnout and before a new compressor is installed **OPEBM6S**



eBOOST[™] **AC/R Acid Detection Kit**

Fast, easy, reliable way to determine relative pH of any lubricant used in AC/R compressors. Identifies acid levels in POE oils ahead of time

- Kit Contents :
- 4 Vials (blue liquid) Lubricant pH Detect
- 4 Pipettes
- 1 Plastic Carrying Case
- **OPEBAK**

AVAILABILITY:

OPEB6S	AC/R Performance Enhancer	1 oz/30ml	15/per
OPEBF6S	AC/R De-Icer	1 oz/30ml	15/per
OPEBA6S	AC/R Acid Neutralizer	1 oz/30ml	15/per
OPEBM6S	AC/R Moisture Remover	1 oz/30ml	15/per
OPEBAK	AC/R Acid Test Kit	Enough for 4 tests	19/per

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Chemica Tools

COMPUTE-A-CHARGE® REFRIGERANT CHARGING SCALES WORTH THEIR WEIGHT IN COLD



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COMPUTE-A-CHARGE[®] CC220W WIRELESS REFRIGERANT CHARGING SCALE

- 220 lb (100 kg) capacity / 0.25 oz (5 g) resolution
- 8.75" platform
- For use with CPS Link[™] app and Android or iOS mobile device
- Weigh, charge and recover refrigerants
- Comes with soft carrying case
- Battery operated
- CCXSC Soft Carrying Case





COMPUTE-A-CHARGE® CC240W WIRELESS HIGH CAPACITY SCALE

- 240 lb (108 kg) capacity / 0.25 oz (5 g) resolution
- 10" platform
- For use with CPS Link[™] app and Android or iOS mobile device
- Weigh, charge and recover refrigerants
- Includes protective carrying case
- Battery operated





COMPUTE-A-CHARGE[®] CC840W PROGRAMMABLE WIRELESS HIGH CAPACITY SCALE

- 240 lb (108 kg) capacity / 0.25 oz (5 g) resolution
- 10" platform
- For use with CPS Link[™] app and Android or iOS mobile device
- Programmable for automatic charging or recovery via integrated solenoid valves
- Weigh, charge and recover refrigerants
- Includes protective carrying case
- Battery operated





Version 4.3 or nigner

CPS Link[™] App U.S. Patent No. 9,043,161 Easily input or access:

- Job data (name, client, invoice #)
- Client list (name, address, e-mail, phone)
- Tank Tracker[™] tank and refrigerant management system
- Optional cloud storage
- Custom alarms for weight set-points
- · E-mail customer and job information
- Operates in ISM band for international use



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COMPUTE-A-CHARGE®

CC50 HIGH RESOLUTION SCALE

- 55 lb (25 kg) capacity / 0.05 oz / 1 g resolution
- Ideal for critical charge, small volume systems
- Removable 8.75["] platform for operation in or out of protective case
- Easy to read, fast response measurement
- Visual and mechanical overload protection

CCXC Protective carrying case **CCX220BC** Battery door with magnet



COMPUTE-A-CHARGE[®] CC110 STANDARD SCALE

- 110 lb (25 kg) capacity / 0.20 oz (5 g) resolution
- Best in class value and accuracy
- Accommodates 30 & 50 lb cylinders
- Removable 8.75["] platform for operation in or out of protective case
- Easy to read, fast response measurement
- Visual and mechanical overload protection

CCXC Protective carrying case **CCX220BC** Battery door with magnet



COMPUTE-A-CHARGE[®]

CC220 HIGH CAPACITY SCALE

- 220 lb (100 kg) capacity / 0.25 oz (10 g) resolution
- Our most versatile unit with best-in-class accuracy and enlarged capacity
- Accommodates 30, 50, 90 & 125 lb cylinders
- Removable 8.75rd platform for operation in or out of protective case
- Easy to read, fast response measurement
- Visual and mechanical overload protection

CCXC Protective carrying case **CCX220BC** Battery door with magnet



COMPUTE-A-CHARGE® CC800A AUTOMATIC PROGRAMMABLE CHARGING/ RECOVERY SCALES HIGH CAPACITY SCALE

- 220 lb (100 kg) capacity / 0.25 oz (1 g) resolution
- Programmable for automatic charging or recovery via built-in solenoid valve
- Accommodates 30, 50, 90 & 125 lb cylinders
- Removable 8.75["] platform for operation in or out of protective case
- Easy to read, fast response measurement
- Visual and mechanical overload protection
- CCX220BC Battery door with magnet

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COMPUTE-A-CHARGE[®] THE MOST TRUSTED BRAND OF CHARGING/ RECOVERY SCALES ON THE PLANET

Recommended by OEMs and professional service technicians for over 30 years, the Compute-A-Charge series of scales have become the preferred tool for accurate, reliable charging of todays advanced AC/R systems. The range consists of fully automatic programmable or manually operated units, with or without wireless remote hand held controls. Models include variations in capacity and resolution specifications to meet all your job specific needs.

FEATURES AND BENEFITS (ALL UNITS)

- The world's most advanced strain gage bridge load cell technology
- Unparalleled accuracy, precision and reliability
- Calibrated to strict NIST (National Institute of Standards & Technology) standards
- Ergonomic hand held remote controls with large, high contrast wide angle LCD displays
- Rugged cast aluminum platform and base assemblies for stability and long life

- Electronic and mechanical overload protected to withstand 150% of capacity
- Environmentally sealed and temperature compensated for reliable operation in extreme environments
- Automatic tare upon start up and manual zero function
- Magnetic backing on hand held display for mounting to metal services or 360° swivel hanging hook
- Durable protective transport case enables operation of scale in or out of enclosure
- Ideal for critical charging of systems large or small and all refrigerant recovery applications
- The widest range of programmable, manual, or wireless/ hand-held configurations
- Declaration of Conformity available at cpsproducts.com CPS scales are in conformity with the following standards or other normative documents:
- EN 61326:2006 (Electrical equipment for measurement, control and laboratory use EMC Requirements)
- IEC 61000-4-2:2001 (Electrostatic Discharge Immunity Test)
- IEC 61000-4-3:2008 (Radiated , radio-frequency, electromagnetic field immunity test
- Designed and manufactured in the USA with U.S. and globally sourced components

COMPUTE-A-CHARGE® SCALE SP	ECIFICATIONS									
Model #	CC220W	CC240W	CC840W	CC50	CC110	CC220	CC800A			
Туре	Wireless for	use with mobile	e device	Corded Handheld (with LCD Display)						
Programmable Solenoids	No	No	Yes	No	No	No	Yes			
Maximum Load	220 lb (100 kg)	240 lb	(108 kg)	55 lb (25 kg) 110 lb (50 kg) 220 lb (100 kg)						
Platform Dimensions	8.75" x 8.75" (22.3 x 2.3 cm)	```	4 cm x 25.4 cm)	8.75" x 8.75" (22.3 x 22.3 cm)						
Display to Scale Connection	Patented Wirele	ess CPS Link™ Te	chnology	Flexcord						
Auto-Off			Automatic shut-off	after 10 minutes of	of inactivity					
Smart Awake		n/a		Scale di	splays last weight	present at time	of Auto-Off			
Transmission Range		30' (9.1 m)				/a				
Frequency Range		SM Band (Worldw				/a				
Power Source	Scale Platform	: (4) AA Alkaline (I	ncluded)		Remote: (2) 9V A	Alkaline (Includ	,			
Continuous Battery Life		75 hr			60 hr		30 hr			
Display Resolution, oz (gm) Increments		25 oz /5 gm		.05 oz /1 gm	.20 oz /5 gm	oz /10 gm				
Weight Accuracy	0.05% of reading, or \pm	0.25 oz/10 gm (w	hichever greater)	0.05% of reading, or ± 0.05 oz/1 gm (whichever 						
Unit Weight	5.35 lb (2.4 kg)	8.64 l	b (4 kg)		8.5 lb (3.9 kg)					
Display Flex Cord Length		n/a		6' Extended						
Maximum Working Pressure	n/a		500 Psig 34,5 Bar	n/a	n/a	n/a	500 Psig 34,5 Bar			
Maximum Operating Differential	n/a		485 Psig 33,5 Bar	n/a	n/a	n/a	485 Psig 33,5 Bar			
Rubber Platform Cover	Yes	Yes	Yes	n/a	n/a	No	No			
Weight Readout			lb &	oz, or kg & gm						
Protective Case	Soft Case			Molded Car	rying Case					
Tare (Empty) Weight Mode				Yes						
Overload Protection			Mechanical (nternal Overload	Stop)					
Battery Status Indicator	via	CPS Link™ app			3 Segment Sy	mbol (Display)				
Remote Control Mount		n/a		Magnetic Back and 360° Swivel Hook						
Operating Temperature Range		14°F to 122°F (-10°C to 50°C)								
Operating Humidity Range			0% to 95%	6 (Non-Condensin	• /					
Approvals		FCC, CE			CE, (C-Tick				

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CHARGING STATIONS COMPACT, FULLY EQUIPPED AND READY-TO-GO

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PRO-SET® PORTABLE VACUUM CHARGING STATIONS

Pro-Set charging stations combine all the necessary tools required to perform a full system evacuation and subsequent charging in a single, compact, mobile unit. Each station includes a Vortech[™] or BlackMax[®] service manifold, a Pro-Set vacuum pump, a Compute-A-Charge[®] refrigerant scale, and premium charging hoses. The lightweight tubular steel frame incorporates rear wheels for easy transport to and from the job site with integrated storage areas for all components.

- Unsurpassed charging accuracy of ± 0.05% of reading
- Hanging ports and hooks for hose storage
- Rear wheels on frame for ease of mobility
- Contains all tools needed for charging and evacuation
- All components store easily on cart





Hard mounted manifolds

All components store easily on cart

Model #	CS12 SMBDS5E	CS12 SMBHP5E	CS12 DMV4TP6Q	CS14 CMBHP5E			CS16 DMV5H2P5E	CS16 DMV5D2P5E			
Application	Appliance, Light Refrigeration	Air Conditioning	Air Conditioning, Refrigeration	Air Con	ditioning	Refrigeration	Air Conditioning	Refrigeration			
Manifold Type	2 Valve (Bla	ckMax®)	4 Valve (Vortech™)	2 Valve (BlackMax®)	4 Valve (Vortech™)	4 Valve (Vortech™)	5 Valve (Vortech™)	5 Valve (Vortech™)			
Refrigerant	R22, R134A, R404A	R22, R404A, R410A	R22, R134A, R404A	R22, R404A, R410A	R22, R134A, R404A, 410A	R22, R134A, R404A	R22, R134A, R404, 410A	R22, R134A, R404A			
Gauge Diameter		2.5″(68	s mm)		3-1/8″ (80 mm)						
Pressure Temperature Scales	Psi /	°F	kPa / Psi / °C	Psi / °F							
Charging Hoses	3-Pk, Standard Yellow (Bal		3-Pk Premium 6' Blue, Red, Yellow Hoses & Cplrs.	3-Pk, Premium 5' Blue, Red, Yellow (Ball Valve)							
Vacuum Pump	One Stage, Dual Voltage	2 CFM, e (VP2S)	Two Stage 2 CFM, Dual Voltage (VP2D)	One Stage, 4 CFM, Single Voltage (VPC4SU) VOltage (VPC4SU) One Stage, 6CFM, Dual Two Stage, 6CFM, Dual Dual Voltage (VP6D)							
Vacuum Gauge			n/a		VG200 n/a						
Charging, Recovery Scale		C	ompute-A- Charge	® (Display Ma	ximum Load: 2	20 Lb; 100 kg)					

CS16DMV5D2P5E

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RECOVER REFRIGERANTS QUICKLY & EFFICIENTLY



Find Quality Products Online at:

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PRO-SET® TR600 SERIES REFRIGERANT RECOVERY MACHINES

Fast. Compact. Reliable.

The Pro-Set TR600 is a lightweight, efficient and reliable refrigerant recovery machine in a compact, rugged, contemporary housing. The TR600 offers the ideal combination of form and function to make refrigerant recovery fast and easy!

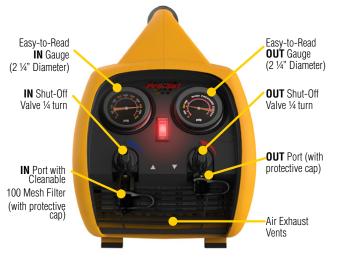
We took six competing recovery machines and their *verified recovery rates (shown on page 21).

Pro-Set TR600 was the undisputed hands-down leader for fastest recovery of R410a, and fastest overall for R22, R134a and R407c.

- Powerful 2/3 HP oil-less 2 cylinder reciprocating recovery compressor
- Exceptional compressor, condensing and cooling systems allow fast recovery in high temperature environments
- R-410a ready with <u>fastest R-410A flow rates</u> in its class!
- 550 psi high pressure shut-off switch
- Durable inlet and outlet ball valve construction with 1/4 turn gauges
- Integrated component moorings for quiet operation
- High impact injection molded housing
- Ergonomic well balanced design for easy transport
- No tool access suction housing for easy filter clean/change
- Less parts provides greater reliability
- Worldwide patents pending

TR21X1 Valve Rebuild Kit **TR21X3** Piston/Connecting Rod Replacement **TR21X2** Complete Rebuild Kit **TR700X1** Head Replacement **CRXF3** (6) Suction Filters













Designed and assembled in USA with US and globally sourced components

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BLACKMAX® TR700 SERIES REFRIGERANT RECOVERY MACHINES

The ultimate in dependability.

Designed for servicing residential and commercial refrigeration systems, the BlackMax TR700 is the industry's best-looking and best-performing refrigerant recovery machine incorporating non-restrictive piston manifold valves, a powerful two cylinder oil-less reciprocating compressor and twin fans. The resulting system provides superior airflow and condensing, which maximizes speed in both direct liquid and direct vapor recovery.

- Powerful 2 cylinder, 2/3 HP oilless reciprocating compressor
- Exceptional compressor, condensing and cooling systems allow fast recovery in high temperature environments
- Automatic low pressure shutoff feature turns unit off when recovery is complete
- Rugged high density, doublewall, contemporary plastic housing with easy-view top mounted controls
- R-410a ready with 550 psi high pressure shut-off switch



Selectable Manual

Off Mode Settings

OR Automatic Shut-

Suction and

Off Valves

TR700 REFRIGERANT RECO

CDS

Discharge Shut-

• Ergonomic well balanced design for easy transport (includes shoulder strap)

- Built-in, removable, replaceable suction filter located under suction port
- Compact design with easy 4 bolt access
- Externally serviceable valves and gauges
- Integrated component mounts for quiet operation
- Less parts provide greater reliability
- Worldwide patents pending

4 Skid Resistant Rubber Feet

> TR21X1 Valve Rebuild Kit TR21X3 Piston/Connecting Rod Replacement TR21X2 Complete Rebuild Kit TR21X5 Eccentric Crank Set TR700X1 Head Replacement CRXF3 (6) Suction Filters



_arge 2-1/4"

Gauges

Diameter Suction and Discharge

Indicator

Status

Lights for High Pressure or Low Pressure

High Density Polyethylene

Case







Designed and assembled in USA with US and globally sourced components

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			*CER	TIFIED REF	RIGERANT REC	OVERY RATE	S (LB/MIN	.)	
	Competing Brands	REFCO Powermax*	Robinair RG3*	Yellow Jacket YJ-LTE*	Bacharach ECO-2020**	Inficon Vortex Dual**	Appion G5 Twin*	BLACKMAX TR700*	Pro-Set TR600*
A	Vapor Rate	0.53	0.14	0.35	0.55	0.55	0.55	0.703 (0.319 kg/min)	0.703 (0.319 kg/min)
R410A	Liquid Rate	4.99	3.57	9.25	5.71	3.55	3.48	11.95 (5.42 kg/min)	11.95 (5.42 kg/min)
8	Liquid Push-Pull	17.56	12.69	10.91	15.85	16.82	10.20	31.7 (14.38 kg/min)	31.7 (14.38 kg/min)
	Vapor Rate	0.50	0.20	0.37	0.55	0.53	0.61	0.597 (0.271 kg/min)	0.597 (0.271 kg/min)
R22	High Temp Vapor Rate	NA	0.22	NA	0.60	0.57	0.41	0.86 (0.39 kg/min)	0.86 (0.39 kg/min)
8	Liquid Rate	4.50	6.39	6.83	6.35	5.97	6.21	8.86 (4.02 kg/min)	8.86 (4.02 kg/min)
	Liquid Push-Pull	11.81	11.83	9.17	11.40	11.0	16.62	31.53 (14.3 kg/min)	31.53 (14.3 kg/min)
A	Vapor Rate	0.50	0.18	0.35	0.46	0.42	0.41	0.503 (.228 kg/min)	0.503 (.228 kg/min)
R134A	Liquid Rate	4.25	5.48	5.35	4.52	4.03	4.34	7.8 (3.54 kg/min)	7.8 (3.54 kg/min)
~	Liquid Push-Pull	12.06	8.86	6.94	10.89	11.64	11.08	25.66 (11.64 kg/min)	25.66 (11.64 kg/min)
J	Vapor Rate	NA	0.18	0.30	NA	0.55	0.55	0.536 (.243 kg/min)	0.536 (.243 kg/min)
R407C	Liquid Rate	NA	5.48	7.53	NA	5.49	7.01	9.5 (4.31 kg/min)	9.5 (4.31 kg/min)
Ľ.	Liquid Push-Pull	NA	11.68	10.05	NA	14.0	17.61	29.14 (13.22 kg/min)	29.14 (13.22 kg/min)

DISCLAIMER: The information found within this chart is not reflective of all competitors. All trademarks and copyrights on this page are owned by their respective owners. Data collected is based on technical specification literature available through the worldwide web and other publicly available marketing literature.

			PRO-SE	T® TR600 S	SERIES SP	ECIFICATIONS			BLACKMA	X® TR700 S	ERIES SPE	CIFICATION	s	
Model#		TR600	TR610	TR600C	TR610C	TR600K	TR600S	TR700	TR710	TR700C	TR710C	TR700S	TR710S	
Voltage (Hz)			115V (60 Hz)		220V (50 Hz) 230V (60 Hz)	220-240V (50 Hz)		115V	(60 Hz)		220-240	V (50 Hz)	
Motor Size				2	2/3 HP					2/3	3 HP			
Motor Therm	ally Protected		\checkmark							\checkmark				
Compressor	Гуре			Two cy	linder, oille	SS				Two cylin	ıder, oilless			
Overload Pro	tection	15 A	mp	13 <i>I</i>	Amp	10 Ar	np	15 Amp 13 Amp 10 Amp				Amp		
Power Consu	mption	1000 W								10	00 W			
Tank Overfill Sensor Cord		X	\checkmark	X	\checkmark	X		x 🗸 x 🗸		\checkmark	X	\checkmark		
Suction Pressure	Outer Scale	-30" Hg to 500 psig								-30″ Hg t	to 500 psig			
Gauge	Inner Scale	-76 cm Hg to 35 kg/cm								-76 cm Hg	to 35 kg/cr	n		
Discharge Pressure	Outer Scale			0-4	550 psig			0 to 1000 psig						
Gauge	Inner Scale				Job paig			0 to 70 kg/cm						
High Pressur	e Shut-Off	550 psig	(38 bar)	450 psig	(31 bar)	550 psig	(38 bar)	550 psig	g (38 bar)) 450 psig (31 bar)		550 psig (38 bar)		
	Class III		R-12,	R-134A, R	-401C, R-4	406A, R-500			R-12, F	R-134A, R-4	01C, R-406	A, R-500		
AHRI 740 Class Refrigerants	Class IV	R-22, R-4	101A/B, R-4		7/C/D/E/F, R R-502, R-5	-408A, R-409A, 09A	R-411A/B,	R-22, R-401A/B, R-402B, R-407/C/D/E/F, R-408A, R-409A, R-411A/B, R-412A, R-502, R-509A					R-411A/B,	
	Class V	I	R-402A, R	-404A, R-4	107A/B, R-	410A/B, R-507	A	R-402A, R-404A, R-407A/B, R-410A/B, R-507A					A	
Operating Ter Range	mperature		3	32°F to 120	0°F (0°C to	49°C)			32	2°F to 120°	(0°C to 49	° C)		
Power Cord L	ength	3.5 ft (1.06 m)						6' (1.82 m) Detachable						
Dimensions		In	nch: 8.5″ x	16.7″ x 12	2.3" (cm: 2	1.6 x 42.4 x 31	.2)		Inch: 9.75"	x 21″ x 14.0)″ (Cm: 24.7	′x 53.3x 35.0	6)	
Weight		28 Lb (12.7 Kg)						32 Lb (14.5 kg)						
Approvals		*UL, CE *UL, CE, CSA *UL, CE *UL, CE, TUV						*UL, CE *UL, CE, CSA *UL, CE [*] UL, CE TUV					*UL, CE, TUV	
Warranty (Ye	ars)				1						1			

^{*} Evaluated for performance rated at 60Hz in accordance with Sec. 608 of the Clean Air Act (Feb. 29, 1996) using AHRI-740-98 test methods.

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PRO-SET® TR21 SERIES REFRIGERANT RECOVERY MACHINES

- Weighs only 25 pounds!
- Fastest ARI recovery rates in its class, best speed-to-weight ratio in the industry!
- Revolutionary "vacuum pump" style design
- Five unique patented and patent pending design elements
- Vapor or liquid recovery, including R-410A
- Extremely compact and easy to carry



*Verified UL Flow Rate @ 60Hz (Reduce 15% for all 50Hz models)

TR21 SERIES F	TR21 SERIES REFRIGERANT RECOVERY RATES												
Refrigerant	Direct Vapor	Direct Liquid	Push - Pull Liquid	High Temp Vapor Rate									
R410a	.703 lb/min (0.319 kg/min)	11.95 lb/min (5.42 kg/min)	31.7 lb/min (14.38 kg/min)	0.816 lb/min (.37 kg/min)									
R22	.597 lb/min (0.271 kg/min)	8.86 lb/min (4.02 kg/min)	31.53 lb/min (14.3 kg/min)	0.86 lb/min (0.39 kg/min)									
R134a	.503 lb/min (0.228 kg/min)	7.8 lb/min (3.54 kg/min)	25.66 lb/min (11.64 kg/min)	n/a									
R407c	.536 lb/min (0.243 kg/min)	9.50 lb/min (4.31 kg/min)	29.14 lb/min (13.22 kg/min)	n/a									

*Evaluated for performance in accordance with Sec. 608 of the Clean Air Act (Feb 29, 1996) using AHRI-740-98 test methods.

PRO-SET® TRS21 SERIES IGNITION PROOF REFRIGERANT RECOVERY MACHINES

- 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)
- Maintenance free oilless compressor
- Permanently lubricated and sealed main bearings
- Improved piston seal design for less leakage and deeper vacuums
- 550 Psig high pressure cutoff switch with LED indicator
- Cleanable 100 mesh inlet filter
- Fastest recovery rates in its class
- Ignition proof ON-OFF switch
- Sealed start relay
 TR21X1 Valve Bebuild Kit

TR21X1 Valve Rebuild Kit TR21X3 Piston/Connecting Rod Replacement

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TR21X2 Complete Rebuild Kit

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TECH-SET® TR19 SERIES REFRIGERANT RECOVERY MACHINES

- Critical oilless compressor components use high temperature resistant materials
- Main bearing is completely sealed and isolated from refrigerant contact.
- Maintenance free oilless compressor design
- Precision machined from aluminum and steel components
- Permanently lubricated and sealed main bearings
- Improved piston seal design for less leakage and deeper vacuums
- Weighs less than 19 pounds
- Special cooling system design improves compressor longevity
- Efficient suction and discharge valve design for faster recovery
- Durable crankshaft design for improved reliability
- Unique head design for superior performance

TR21X1 Valve Rebuild Kit

TR21X3 Piston/Connecting Rod Replacement

TR19X1 Complete Rebuilt Kit

TR19X2 Eccentric Crank Set

TR21X4 Complete Head Replacement

PRO-SET[®] TR21 & TRS21 and TECH-SET[™] TR19 SERIES SPECIFICATIONS

PRU-SEI® IRZI	& TRS21 and TEC	-9E1 1	R 19 SERI	E9 96E0ILIO	ATIONS	_	_	_	_					
Model #		TR19	TR19C	TR19S	TR21	TR21C	TR21S	TR21E	TRS21	TR22	TR22C			
Voltage		11 (60		220-240V (50 Hz)	11: (60		230 V (50 Hz)	220-240 V (50 Hz)	115V (60Hz)					
Motor Size (Hors	sepower)	,	, 1/2 HP	· · /										
Motor thermally	protected		\checkmark											
Power Consump	tion		550W				1000W			850W				
Two Cylinder, Oi Reciprocating C		\checkmark												
ON-Off Power Sv	witch		\checkmark											
Spark Proof Star	rting Components		×				x		\checkmark	×	c			
High Pressure S		550 Psig (38 bar)	450 Psig (31 Bar)	550 Psig (38 bar)	550 psig	450 psig	550 psig	525 psig (38 bar)	550 Psig (38 bar)	550 Psig (38 bar)	450 Psig (31 Bar)			
Selectable Man Shut-Off Mode S	Auto R	eset High Switch	Pressure	Auto Rese	et High Pre	ssure Switch	Manual Reset	Auto Reset	High Pressur	e Switch				
Tank Overfill Sw	itch Kit		×			Optiona	I	×	×	\checkmark	×			
Maximum Flow	Direct Vapor	Up to 1	.2 lb/min	(33 kg/hr)	g/hr)									
Rate @ 60 Hz (Reduce 15%	Direct Liquid	Up to 9.	5 lb/min (260 kg/hr)			l	Jp to 12 lb/min (271 k	g/hr)					
for 50 Hz)	Push-Pull Liquid	Up to 20	.3 lb/min	(550 kg/hr)			L	Jp to 34 lb/min (922 k	g/hr)					
lass	Class III	R-12, R-134A, R-401C, R-406A, R-500												
AHRI 740 Class Refrigerants	Class IV	R-22, R-401A/B, R-402B, R-407/C/D/E/F, R-408A, R-409A, R-411A/B, R-412A, R-502, R-509A												
AHR Rei	Class V		R-402A, R-404A, R-407A/B, R-410A/B, R-507A											
	ass A2, A2L and \3	× R1234yf, R32, R290, R600, R601, R1276								c				
Operating Temp	-					32°	F to 120°F (0°	C to 49°C)						
Cleanable, 100- Filtration (Into S							\checkmark							
High Pressure C	utout LED		\checkmark											
Heavy Gauge Al	uminum Chassis						\checkmark							
Skid Resistant R					\checkmark									
Power Cord Len Dimensions (W	5 / JI					6″ v 10'	6 Ft.	30cm x 23cm)						
Weight	x L X Nj	1	8.7 lb (8.5	ka)		0 X 12		24.3 lb (11.0 kg)						
Approvals			0.7 ID (0.0	Ny)			UL, CE, CSA	, -,						
Warranty (Years)						UL, UE, USA, 1	, 100						
waitanty (redis	1						1							

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TR19 SERIES

TRANSFORM YOUR BOTTOM LINE WITH THE MT69 MOLECULAR TRANSFORMATOR. IT DRAMATICALLY INCREASES THE SPEED OF <u>ANY</u> RECOVERY MACHINE.

CUT YOUR RECOVERY TIME IN HALF.

The MT69 is the <u>only</u> commercialized recovery sub-cooler manufactured for the professional A/C & R technician. It transforms molecules of hot refrigerant gas into molecules of refrigerant liquid and also transforms molecules of cold refrigerant liquid into a warm refrigerant gas. Use the MT69 in-line with the discharge line of <u>any recovery machine</u> to dramatically increase the speed of recovery.

• Dramatically increases the speed and performance of your recovery machine- (up to 95% increase in recovery speed!)

COMPARATIVE DATA										
Time needed to	WITH MT69	WITHOUT MT69								
recover 15 lb of R22 at 120° F:	17 minutes	32 minutes								

- · Functions as a submersible condenser or evaporator
- Rugged, compact and easy to use
- 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
- The hotter it is, the better it works
- · Essential for recovering liquid refrigerant on cold days
- Eliminates liquid slugging at colder temperatures
- Patents Pending
- Designed and manufactured in USA with U.S. and globally source components

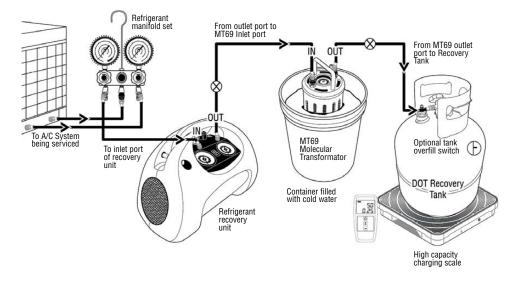
Item	Description
MT69	MT69 Molecular Transformator
TR21MT69KIT	TR21 & MT69 kit

HOW THE MT69 MOLECULAR TRANSFORMATOR WORKS:

The effects of ambient temperature and elevated tank pressures on the speed of the refrigerant recovery process are in many cases more important than the speed of the recovery machine itself. As ambient temperature increases, pressure in the recovery cylinder increases, reducing the recovery speed and in many cases can lead to a high pressure shutdown as the recovery equipment and tank pressure limits are reached. The Molecular Transformator reduces the temperature and pressure of recovered refrigerant during the recovery process, dramatically improving the recovery speed and high ambient temperature performance of all commercially available recovery machines in addition to extending the life of the equipment.



MT69 SPECIFICATIONS	
Dimensions	4.25" x 9" (10.9 cm x 22.9 cm)
Weight	3.6 lb (1.6 kg)
Maximum Operation Pressure	500 Psig
Discharge Pressure Gauge	0 to 600 Psig
Inlet/Outlet Connections	1/4" SAE male
Refrigerant Compatibility	All



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HEATER STRAPS

Charge faster in cold weather! Ideal for use on portable refrigerant charging or recovery tanks, especially in cold weather when transfer times increase, or when a tank is low on



refrigerant. These durable straps create a positive pressure between the refrigerant tank and an A/C or refrigeration system, thereby reducing refrigerant transfer time.





CCXHBV (220V/240V)

Model	CCXHB	CCXHBV					
Voltage (Hz)	120 VAC (50/60 Hz)	240 VAC (50/60 Hz)					
Watts	340 W						
Amps	2.8	1.4					
For Cylinder Sizes	From 8″ (20 ci Diame	n) to 14″ (35 cm) eter Tanks					
Control (Overheat Protection)	Automatic Thermal Cutoff (Encapsulated Thermostat)						
Minimum Surface Temperature Of Tank	115°F (46°C)						
Maximum Thermostat Temperature	130°F (55°C)						
Power Cord Length	20″ (0.50 m)						
Adjustable Velcro Strap Max Length	19″ (0.48 m)						
Heater Strap Width	3″ (7	76 mm)					
Heater Strap Length	24″	(.60 m)					
Heater Strap Color	Dark Orange						
Electrical Connection Type	Nema 5-15P	IEC320 Inlet					
Packaging	Header Card	+ Clear Poly Bag					



CRX430T CRX430TS with overfill sensor 1/4" SAE Male



CRX400T CRX400TS with overfill sensor 1/4" SAE Male



(Automotive use) ARX134T ARX134TS with overfill sensor 1/2" ACME Male fitting

Wainet Of Tank Water Total Weight Tank Cast Ding Tank Outside



CRX390T CRX390TS with overfill sensor 1/4" SAE Male fitting

May

REFRIGERANT RECOVERY TANKS

- DOT Certified for refrigerant storage
- Refrigerant compatible sealant used on all mechanical connection points
- Auxillary port for optional overfill sensor
- Liquid and Vapor UL listed Y-valve
- Powder coated for maximum rust protection

			jht Of 7 Tank		Tank Water (Tank & Capacity Refrigerant)		Tank Foot Ring Diameter		Tank Outside Diameter		Tank Height		Pressure Rating	
		lb	kg	lb	kg	lb	kg	in	mm	in	mm	in	mm	(psig)
For HVA	C/R Use													
30 Lb	CRX430T	17.5	7.9	26.2	11.9	43.7	19.8	7.8	198.1	9.5	241.3	18.1	459.7	400
	CRX430TS	17.5	7.9	26.2	11.9	43.7	19.8	7.8	198.1	9.5	241.3	18.1	459.7	400
50 Lb	CRX400T	28.3	12.8	47.4	21.5	75.7	34.3	8	203.2	12.5	317.5	19.75	501.7	400
JULD	CRX400TS	28.3	12.8	47.4	21.5	75.7	34.3	8	203.2	12.5	317.5	19.75	501.7	400
90 Lb	CRX390T	49.5	22.5	92.5	42	142.0	64.4	9.5	241.3	12	304.8	31.75	806.5	350
90 LU	CRX390TS	49.5	22.5	92.5	42	142.0	64.4	9.5	241.3	12	304.8	31.75	806.5	350
For Auto	motive Use													
50 I h	ARX134T	28.3	12.8	47.4	21.5	75.7	34.3	8	203.2	12.5	317.5	19.75	501.7	400
50 Lb	ARX134TS	28.3	12.8	47.4	21.5	75.7	34.3	8	203.2	12.5	317.5	19.75	501.7	400

Recovery Equipment

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VACUUM PUMPS LIGHT WEIGHT DESIGN HEAVY WEIGHT PERFORMANCE



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PRO-SET® VACUUM PUMPS

There are good pumps, better pumps, then Pro-Set Vacuum Pumps! Innovative changes in vacuum cartridge design, materials, lubrication and cooling enable Pro-Set vacuum pumps to achieve incredibly deep vacuum performance ratings that are unmatched in the industry. Pro-Set has the product line breadth and depth to suit just about any HVAC/R job or fit any job site requirement you might have!

Pro-Set vacuum pumps are offered in a variety of single and dual stage models with numerous voltage, horsepower and free air displacement (CFM) options, while contained in either standard size or compact size housings to suit your work environment. All Pro-Set vacuum pumps boast the same high quality, high value features engineered into all of our products, providing years of reliable performance while servicing air conditioning and refrigeration equipment.

PRO-SET® VACUUM PUMP KEY FEATURES

- All models are for use with class A1 (non-toxic, non-flammable), class A2 (non-toxic, low-flammable) refrigerants
- Air cooled, thermally protected motors encased in a durable aluminum housing
- Oil filled rotary vacuum pump cartridge construction
- Large oil-fill port with proprietary, mistfree exhaust cap
- Easily accessible oil drain port
- Large oil sight glass
- Multiple SAE and ACME intake fittings with check valve
- On/Off power switch
- Rubber lined handle, skid resistant rubber feet
- Gas ballast valve

PRO-SET® DUAL STAGE VACUUM PUMPS

Pro-Set dual stage vacuum pumps are your premium solution for obtaining the deepest ultimate vacuum (10 to 25 microns, depending on model), the greatest range of horsepower (1/3 to 1) and free air displacement (from 2 CFM to 12 CFM) within the Pro-Set line. These pumps also include a gas ballast valve which speeds attainment of deep vacuum and are offered in both single and dual voltage models. All models are for use with Class A1 (non-toxic, non-flammable) and A2 (non-toxic, low flammable) refrigerants. The VPS Series with its sealed components is also for use with Class A3 (non-toxic, explosive) refrigerants and ammonia systems.



LD5

PRO-SET® DUAL OR SINGLE STAGE COMPACT VACUUM PUMPS

The Pro-Set line of dual or single stage compact vacuum pumps provide an ultimate vacuum ranging from 15 to 100 microns, horsepower ratings from 1/5 to 1/4, and free air displacement from 2 CFM to 4 CFM. These pumps offer dedicated 115VAC or 220-240VAC operation and are hardwired with either NEMA 115VAC or 220-240VAC plugs. Best of all, these pumps feature some the smallest, lightest and most compact aluminum housings in the industry.



PRO-SET® SINGLE STAGE VACUUM PUMPS

Pro-Set single stage standard size vacuum pumps provide a deep vacuum (down to 50 microns), with horsepower ratings from 1/3 to 1, and free air displacement from 2 CFM to 12 CFM. These pumps include a gas ballast valve and are offered in both single and dual voltage and have a voltage selector switch. Vacuum Pumps

SMALL SIZE,

PERFORMA

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Pro-Set[®] dual stage vacuum pumps are your premium solution for obtaining the deepest ultimate vacuum (10 or 25 microns, depending on model) and provide the greatest range of horsepower (1/3 to 1) and free air displacement (from 2 CFM to 12 CFM) within the Pro-Set line. These pumps also include a gas ballast valve which speeds attainment of deep vacuum and are offered in both single and dual voltage models. All models are for use with Class A1 (nontoxic, non-flammable) and A2 (non-toxic, flammable) refrigerants. Model VPS6DU with its sealed components is also for use with Class A3 (non-toxic, explosive) refrigerants and ammonia systems.

							5		
Model	VP2D	VP2DE	VP4D	VP4DE	VP6D	VP6DE	VPS6DE	VPS6DU	
Stage					2				
Ultimate Vacuum				10 M	icrons				
Refrigerant Class			A1,	A2		A1, A2, A3			
Dimensions (Inches)	12.2″x	5″ x 9.6″			13.1″x	5.5″ x 10″			
Weight	17.7 lb	(8.0 kg)	22.1 lb (10.0 kg)		22.5 lb	(10.2 kg)		
Free Air Displacement	2 CFM (48 l/m	@ 60Hz @ 50Hz)	4 CFM (96 l/m	@ 60Hz @ 50Hz)		6 CFM (144 I/m	@ 60 Hz @ 50 Hz)		
Motor Size (HP), RPM @ 50/60Hz	¹ / ₃ HP (1440	, 1720 RPM)	1/ ₂ HP (2880, 3440			, 3440 RPM)	0 RPM)		
Voltage	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	110-120V Or 220-240V @ 50/60Hz	220-240V, 50 Hz	220-240V, 50Hz	115V 60Hz	
Power Cord Connection to Pump	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Universal IEC Socket & Voltage Selector Switch	Universal IEC Socket	Hard Wired Schuko Plug	Hard Wired	
On/Off Power Switch			Ye	es			Yes (Ignition starting co	-proof sealed omponents)	
Operating Temperature Range	32°F to 125°F (0°C to 52°C)								
Pro-Set [®] Vacuum Pump Oil Capacity	11.5 oz	11.5 oz (330 ml) 15.5 oz (450 ml) 16 oz (470 ml)							
Gas Ballast Valve		Yes							
Intake Fittings	SAE: 1/4″, 3/8″, ACME: 1/2″ SAE 1/4″, 3/8″, 1			3/8″, 1/2″					
Warranty (Years)	2	1	2	1	2		1		

Legend: VP= Vacuum Pump, VPS = Ignition Proof VP; 2,4,6,8,10,12 = CFM; D = Dual stage; A or E = 220-240VAC 50 Hz; J = 100VAC 50/60 Hz; U=115VAC 60Hz, No Consonant After "D" =Dual Voltage 110-120VAC or 220-240VAC 50/60Hz. Refrigerant Classes: A1 (non-toxic, non-flammable); A2 (non-toxic, flammable); A3 (non-toxic, explosive)

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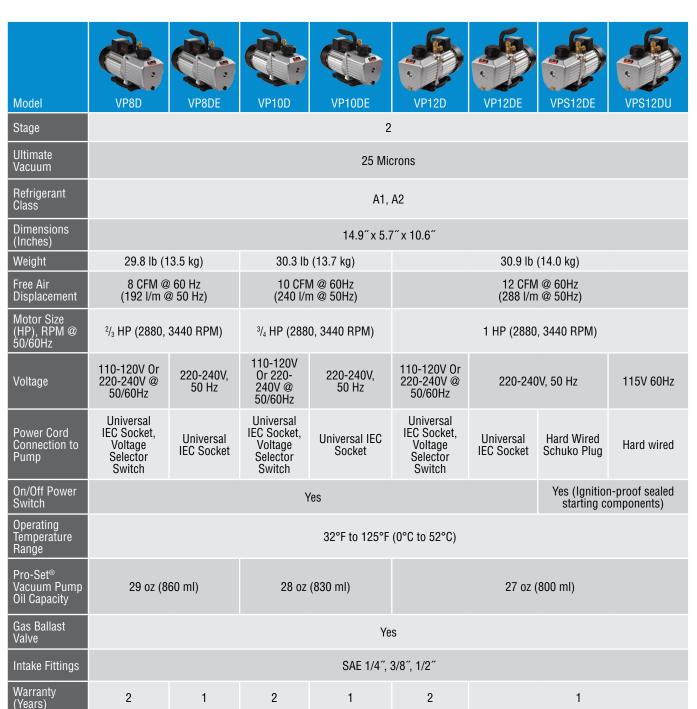




VPOG6

PRO-SET[®] PREMIUM VACUUM PUMP OIL

Pro-Set Premium Vacuum Pump Oil is an extremely high quality, severely hydro-treated vacuum pump oil. The oil is compatible for use in pumps made by most manufacturers. Pro-Set Premium Vacuum Pump Oil should always be clean and free of contaminants such as moisture, acids, vapors, dirt etc. It is strongly recommended that the vacuum pump oil be changed after each use to improve service and the life of the pump.



Vacuum Pumps

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(E) N11445



The Pro-Set[®] line of dual or single stage, compact vacuum pumps provide an ultimate vacuum ranging from 15 to 100 microns, horsepower ratings from 1/5 to 1/4, and free air displacement from 2 CFM to 4 CFM. These pumps offer dedicated 115VAC or 220-240VAC operation and are hardwired with either NEMA 115VAC or 220-240VAC plugs. Best of all, these pumps feature some the smallest, lightest, most compact aluminum housings in the industry.

Model	VPC2DU	VPC2DE	VPC2SU	VPC2SE	VPC4SU	VPC4SE	
Stage	2	2	1				
Ultimate Vacuum	15 Mi	crons		100	Microns		
Refrigerant Class			A	1, A2			
Dimensions (Inches)	11.3″ x 4.	5″ x 8.0″	9.1″x 4	4.5″ x 8.0″	11.3″ x 4	ł.5″ x 8.0″	
Weight	12.1 lb	(5.5 kg)	9.3 lb (4.2 kg)		11.0 lb (5 kg)		
Free Air Displacement	2 CFM @ 60Hz (48 l/m @ 50Hz)		4 CFM @ 60 Hz (96 I/m @ 50 Hz)		
Motor Size (HP) RPM @ 50/60Hz	¹ / ₄ HP (2880 , 3440 RPM)		¹ / ₅ HP (2880, 3440 RPM)		¹ / ₄ HP (2880, 3440 RPM)		
Voltage	115V @ 60 Hz	220-240V @ 50 Hz	115V @ 60 Hz	220-240V @ 50 Hz	115V @ 60 Hz	220-240V @ 50 Hz	
Power Cord Connection to Pump (& Plug Type)	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	
On/Off Power Switch	Yes						
Operating Temperature Range		32°F to 125°F (0°C to 52°C)					
Oil Capacity	9 oz (250 ml)	z (250 ml)		9 oz (250 ml)		10 oz (300 ml)	
Gas Ballast	No						
Intake Fittings		SAE: 1/4″, ACME: 1/2″					
Warranty (Years)				1			

Legend: VP= Vacuum Pump; C = Compact; 2,4 = CFM; E = 220-240VAC 50 Hz; S = Single Stage; U = 115VAC, 50/60 Hz. Refrigerant Classes: A1 (non-toxic, non-flammable); A2 (non-toxic, flammable)



VPAS4 ANTI-SIPHON VALVE KIT 1/4" SAE female knurl nut

ANTI-SIPHON VALVE KITS

VPAS8 ANTI-SIPHON VALVE KIT 3/8" SAE female knurl nut

VPASU ANTI-SIPHON VALVE KIT 1/4" SAE, 3/8" SAE, 1/2"-20 UNF female knurl nut

The CPS anti-siphon valve is an essential accessory to any vacuum pump application. The anti-siphon valve prevents the cross-contamination of vacuum pump oil and the compressor oil in the A/C or refrigeration system being serviced. Mixing of vacuum pump oil and compressor oil can cause premature failure in the A/C or refrigeration system. CPS makes three models that fit all CPS and other brands of vacuum pumps.

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(E) N11445



Pro-Set[®] single stage, standard size vacuum pumps provide a deep vacuum (down to 50 microns), with horsepower ratings from 1/3 to 1, and free air displacement from 2 CFM to 12 CFM. These pumps include a gas ballast valve and are offered in both single and dual voltage and have a voltage selector switch.

Model	VP2S	VP4S	VP6S	
Stage	VF20	1	VFUS	
Ultimate Vacuum		50 Microns		
Refrigerant Class		A1, A2		
Dimensions (Inches)	12.2″>	x 5″ x 9.6″	13.1″x 5.5″x 10″	
Weight	13.7 lb (6.2 kg)	15.0 lb (6.8 kg)	18.3 lb (8.3 kg)	
Free Air Displacement	2 CFM @ 60Hz (48 l/m @ 50Hz)	4 CFM @ 60Hz (96 l/m @ 50Hz)	6 CFM @ 60 Hz (144 I/m @ 50 Hz)	
Motor Size (HP), RPM @ 50/60Hz	¹ / ₄ HP (1440 1720 RPM)	¹ / ₃ (HP) 2880/3440	¹ / ₂ HP (2880, 3440 RPM)	
Voltage	Dual (110-120V Or 220-240V @ 50/60Hz)			
Power Cord Connection to Pump (& Plug Type)	Universal IEC Socket, Voltage Selector Switch, Nema 15 Plug			
On/Off Power Switch	Yes			
Operating Temperature Range	32°F to 125°F (0°C to 52°C)			
Oil Capacity	16 oz	19 oz (540 ml)		
Gas Ballast	No			
Intake Fittings	SAE: 1/4" & 3/8", ACME: 1/2"			
Warranty (Years)	2			

Legend: VP= Vacuum Pump; 2,4,6 = CFM; S = Single Stage; Dual Voltage: 110-120VAC or 220-240VAC 50/60 Hz. Refrigerant Classes: A1 (non-toxic, non-flammable); A2 (non-toxic, flammable)



AVCVAC VACUUM PUMP CAP KIT Vacuum pump cap kit with chains on one common ring



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(E) N11445



SINGLE STAGE, COMPACT VACUUM PUMPS

The Tech-Set line of vacuum pumps are designed for the working HVAC technician, and feature a core, essential line of good value vacuum pumps that provide affordable, reliable and dependable service. All models are single stage and feature small, lightweight and compact housings with dedicated 115VAC or 220VAC IEC plug configurations. Models range from 1.5, 3 or 5 CFM, 1/5 to 1/3 horsepower, and ultimate vacuum ratings from 50 to 100 microns.



Model	TAVPC48SU	TAVPC48SE	TAVPC96SU	TAVPC96SE	TAVP144SU	TAVP144SE	
Stage	1						
Ultimate Vacuum		100 Mi	crons		50 Microns		
Refrigerant Class			A	1, A2			
Dimensions (Inches)	8.75″ x 4.1	1″x 9.25″	11.25″ x	4.1″ x 9.25″	12.62″ x 4.8″ x 9.62″		
Weight	9.5 lb (4	4.3 kg)	11 lb	(5.0 kg)	14.8 lb (6.7 kg)		
Free Air Displacement	1.5 CFM @ 60 Hz	(48 l/m @ 50 Hz)	3 CFM @ 60 Hz	z (96 l/m @ 50 Hz)	5 CFM @ 60 Hz (5 CFM @ 60 Hz (144 I/m @ 50 Hz)	
Motor Size (HP) RPM @ 50/60Hz	¹ / ₅ HP (2880, 3440 RPM)		¹ / ₄ HP (2880, 3440 RPM)		¹ / ₃ HP (2880, 3440 RPM)		
Voltage	115V @ 50/60 Hz	220-240V @ 50 Hz	115V @ 50/60 Hz	220-240V @ 50 Hz	115V @ 50/60 Hz	220-240V @ 50 Hz	
Power Cord Connection to Pump (& Plug Type)	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	Hardwired, Nema 115V Plug	Universal IEC, Schuko Plug	
On/Off Power Switch	Yes						
Operating Temperature Range	32°F to 125°F (0°C to 52°C)						
Oil Capacity	9 oz (250 ml) 14 oz (400 ml)						
Gas Ballast	No						
Intake Fittings	SAE: 1/4", ACME: 1/2"						
Warranty (Years)	1						

Legend: T = Tech-Set; VP = Vacuum Pump; C = Compact; 48, 96 or 144 = IpM; E = 220-240VAC 50 Hz; S = Single Stage; U = 115VAC, 50/60 Hz Refrigerant Classes: A1 (non-toxic, non-flammable); A2 (non-toxic, flammable)

PORT CAPS

Oil mist preventer exhaust port.

VPXOMP for 2-6 CFM Models **VPXOMP2** for 8-12 CFM Models



VPXJ220 JUMPER CORD KIT

220 VAC jumper power cord for locations where 110 voltage is not available.



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VACUUM GAUGES Performance that can be measured



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VG100A & VG200 VACROMETER DIGITAL VACUUM GAUGES VG100A & VG200:

- Advanced sensor design with self-heated thermistor bridge and automatic temperature compensation
- Field cleanable sensor designed to withstand 400 Psi of positive pressure
- Brass T adapter (AVT45), hanging hook (VGXH) and carrying case (VGXC) included with VG200, VG100A
- Calibrated to strict NIST standards for best-in-class accuracy and reliability
- Designed and manufactured in the USA with U.S. and globally sourced components

VG200, VG201:

- Continual digital readout of evacuation process on large, easy to read 5 digit LCD display
- User selectable units: Microns, Torr, in/Hg or mBar

VG100A, VG101:

 Vacuum level indication at Atm (Atmosphere), 5000, 2000, 1000, 500, 250, 100, 50 & 25 microns

Model	VG200	VG201	VG100A	VG101	
Sensor Type	Self - heated thermistor h	oridge [with integral temperatu	re compensation from	32 to 122° F (0 to 50° C)]	
Field Cleanable Sensor		Yes			
Accuracy	+/- 10% 0	f Reading	+/- 10% V	alue Of Lighted LED	
Display Type	5 Digi	t LCD	9 High	Intensity LEDs	
Display Auto-Off		After 5 Minutes Of	f Operation		
Operating Vacuum Range	Atmospheric press	sure to 0 microns	Atmospheric pressure to 25 microns		
Maximum Working Pressure	400 Psig				
Operating Temp Range	Compensated (accuracy as stated): 32°F - 122°F (0°C - 50°C) Non-compensated: Add +/- 0.5% error for every °C outside compensated range			0°C) ensated range	
Storage Temperature	-22° F to 185° F (-30° C to 85° C)				
Operating & Storage Humidity	0 - 95%, Non-condensing				
Power Source	One 9V Alkaline Battery (ANSI 1604AC – IEC 6LR61), included			uded	
Battery Life	20 hr conti	nuous use	18 hr continuous use		
Battery Indicator	Battery symbol with 3 segment Power Level Bar Graph		Symbol for 500 Microns Glows		
Weight (Excluding Battery)	5.5 oz (156 g)		4.8 oz (136 g)		
Dimensions	2.7″ dia. by 1.6″ Dp x 5″ H (68 mm Dia. x 40 mm Dp x 124 H)			4 H)	
Mechanical Connection	Standard 1/4" female SAE refrigerant hose w/core depressor	1/8 [~] NPT thread connection	Standard 1/4" female SAE refrigerant hose w/ core depressor	1/8″NPT thread connection	

GAUGE ADAPTERS

The **AVT45/48/87** are premium built brass adapters. The **AVT45** is included for use with the **VG100A** & **VG200** (purchased separately for **VG201** & **VG101**) and has a 1/4["] SAE male to 1/4" SAE male to 1/4" SAE swivel female tee.



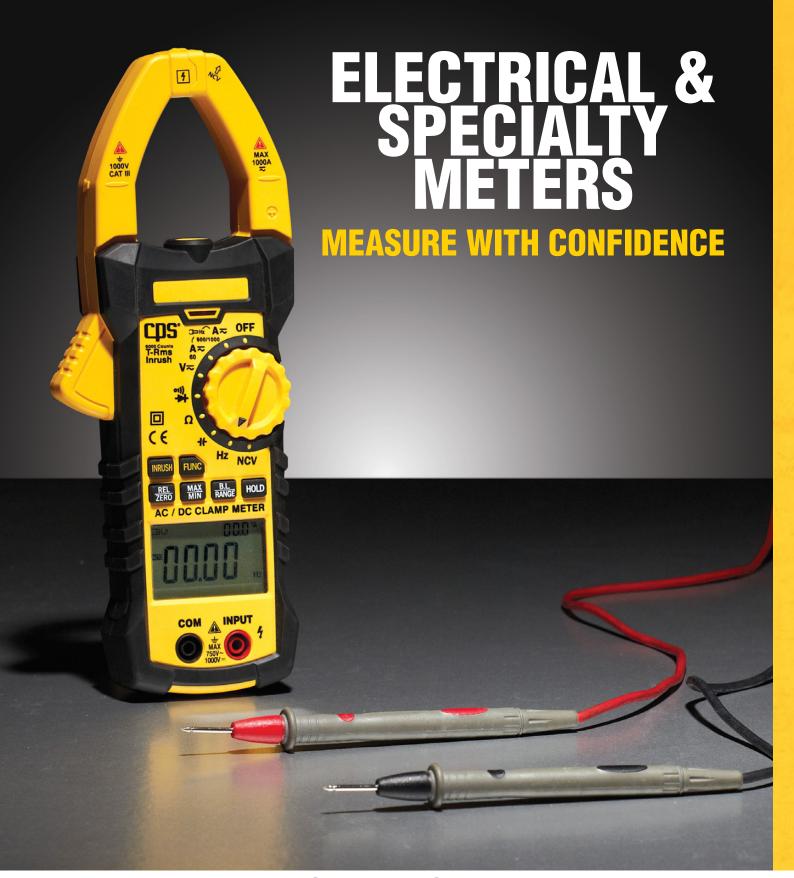
VACUUM GAUGE ACCESSORIES & SPARE PARTS FOR VG200, VG201, 100A, VG101

AVT44	1/4" SAE female hex nut x 1/4" SAE male x 1/4" SAE male w/cap & core	
AVT45	1/4" SAE female knurl nut x 1/4" SAE male x 1/4" SAE male w/cap & core	-
AVT87	1/4" SAE male x 1/2-20" SAE female x 1/2-20" SAE male tee adapter	-
VGXC	Carrying case for VG Series (Included with VG100A & VG200)	-
VGXH	Hanging hook for VG Series (Included with VG100A & VG200)	-
	·	- (



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AC750 DIGITAL CLAMP METER

The AC750 is a multi-functional AC/DC clamp meter and hosts an array of enhanced features such as ability to capture true In-Rush measurements, non-contact voltage detection, and data logging of output readings to a PC (USB connection cable included).

- Versatile for testing AC/DC voltage, AC/DC current, • resistance and frequency
- True RMS AC measurement
- Max/min value measurement .
- Audible continuity and diode test •
- Non-contact voltage detection ٠
- Integrated clamp light and LCD backlight •
- Auto zero key for DCA measurement
- Auto/Manual range, auto power off •
- Secondary injection molded case, safety as per IEC1010 . 1000V CAT III
- Includes DMXTL CAT 3, 1000V test leads (shown below)



USB data connection



Built-in flashlight



Extra strength grip clamp





4



DMXTL 1000V CAT 3 TEST LEADS



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AM50 VELOCITOR[™] AIR VELOCITY METER

A professional grade, precision, hand held, detached vane anemometer that provides fast, accurate air velocity measurements for balancing HVAC systems or determining CFM calculations. Includes large $3/4^{\prime\prime}$ display digits and low battery indicator, as well as Data Hold, Max Hold (°F,°C); Function Selection (°F,°C, Anemometer); Units Selection (m/s, ft/min, Knots, Km/Hr). Kit also includes a convenient K Type thermocouple integrated into the remote vane providing quick measurement of grill/duct outflow temperatures from 32° to 122°F (0° to 50°C). An easy-to-read chart allows quick conversion of air velocity measurements into CFM data. Also included is an instruction manual, CFM Chart (Grill Size, Free Air), 9 V battery, molded carrying case. Factory calibrated.

Temperature Sensor	K-type there	mocouple				
Average Deried	Feet/Minute	-	~1.2			
Average Period (Seconds) for Wind	Meters/Sec	cond	~0.6			
Speed Measurement	Knots		~1.2			
	Km/Hr ~2.2					
Flex Cord	5'					
Power Consumption	Approx 6 n	۱A				
Battery Life	9V					
Battery Type	50 hr (for 3	300 mA-hr ba	attery)			
Operating Pressure	500 mb ~ 2	2 Bar				
Operating Temperature Range (Meter)	32°F to 122	2°F (0°C to 5	0°C)			
Operating Temperature Range (Vane)	32°F to 140	2°F to 140°F (0°C to 60°C)				
Operating Humidity for Thermocouple	<80% RH					
Storage Temperature Range	-40°F to 14	0°F (-40°C t	o 60°C)			
Bearing	Ultra-low fi	riction sapphire jewel				
Weight	12.3 oz (35	50 g)	g)			
Mounting Nut	1/4″ x 20					
Dimensions (L x W x H)	6.6" x 3.5" x 1"; (168 mm x 88 mm x 26			(26 mm)		
Units	Range	Threshold	Resolution	Accuracy		
Feet/Minute	0 to 8,800	60				
Meters/Second	0 to 45	0.3	0.1	±3% or		
Kilometers/Hour	0 to 140	1.0		0.1		
Knots	0 to 88	0.6				

DM350 TECH-SET[™] AUTO-RANGING DIGITAL MULTIMETER CAT III 600V

The **DM350** is a Multi-Functional Meter and is designed to international safety standard IEC1010 CAT III 600V. The **DM350** is encased in a secondary injection mold and supports such features as auto ranging, data hold and maximum value measurement.

Display	4 digit large character LCD
Range Control	Auto range mode
Battery	(2) 1.5V AA batteries
Dimensions	158 x 74 x 31mm
Weight	Approx. 220g (including batteries)
DC Voltage	200m / 2 / 20 / 200 / 600V ±0.7%
AC Voltage	200m / 2 / 20 / 200 / 600V ±0.7%
DC Current	200μ / 2000 μ / 20m / 200mA ±1.2%, 2/10A±2.0%
(with optional clamp)	200/2000A (0.1mV/0.1A) ±1.2%
AC Current	200 μ / 2000 μ / 20m / 200mA ±1.5%, 2/10A±3.0%
(with optional clamp)	200/2000A (0.1mV/0.1A) ±1.5%
Resistance	200 / 2k / 20k / 200k / 2M ± 1.2%: 20M ± 2.0%
Temperature	-20°C - 1000°C ± 3.0%, 0°F ~ 1800°F ± 3.0%
Capacitance	20n / 200n / 2μ / 20μ / 200μ / 2000μF ± 4.0%



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AC400 TECH-SET[™] DIGITAL CLAMP METER

The **AC400** is a auto-ranging clamp on meter. The **AC400** is designed to international safety standard IEC1010 CAT III 600V. The **AC400** is encased in a secondary injection mold and supports such features as auto ranging, data hold and maximum value measurement.



SM150 SOUND LEVEL METER

A professional grade, hand held, lightweight sound level meter for measuring noise levels from 35 to 130dB. Common applications include monitoring sound output from HVAC/R compressors, blowers, health and safety requirements, offices, factory machinery, airports, auditoriums, studio acoustics, etc. Features switches for Hi/Lo dB, slow/fast/impulse, and A & C Weighting. Includes a large, 4 digit LCD display, maximum hold (captures & holds maximum noise level), Over/under range indicator, peak and average response settings. Includes a 3.5 mm output jack for downloading AC or DC signals to a frequency analyzer, level recorder, FFT analyzer, graphic recorder, etc. Kit includes instruction manual, foam windscreen, 3.5 mm plug, calibration screwdriver, 9 V battery, foam padded carrying case. Factory calibrated. CE approved. Meets or exceeds ANSI S1.4 Type 2; IEC 61672-1 Class 2.

SM150 SOUND LEVEL METER SPECIFICATIONS

SM150 SOUND LEVEL	VIETER SPECIFICATIONS
Frequency Range	20 Hz ~ 8KHz
Measuring Level Range	35~ 130 dB
Frequency Weighting	A/C
Time Weighting	Fast (125 mS), Slow (1 sec.) Impulse (35 mS)
Microphone	1/2" Electret Condenser
Display	LCD (4 Digits)
Resolution	0.1 dB
Display Period	0.5 sec.
Level Ranges	Lo (35-95dB); Hi (65~130dB)
Accuracy	±1.4dB (Under Reference Conditions)
Dynamic Range	65 dB
Alarm Function	"OVER" displays when input out of range
Weight	12.3 oz (350 g)
Mounting Nut	1/4‴x 20
Dimensions (LxWxH)	Inch: 6.6" x 3.5" x 1"; mm: 168 x 88 x 26
Maximum Hold	Hold readings, with decay , 1 dB/3 minutes
Calibration	Electrical calibration via internal oscillator (1 KHz) sine wave
AC Output	0.6 Vrms at FS (full scale), output impedance approx. $5K\Omega$
DC Output	10mV/dB, output impedance approx. 5K Ω
Power Supply	One 9V battery
Power Life	Approx 50 hr (alkaline)
Operating Temperature Range	32° F to 104°F (0°C to 40°C)
Operating Humidity Range	25% to 90% RH
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Storage Humidity	10% to 70% RH
Dimensions (L x W x H)	Inch: 9.4" x 2.7" x 0.98" mm: 240 x 68 x 25
Weight	7.5 oz (215 g)

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TEMPERATURE & SYSTEM MEASUREMENT INNOVATIVE SYSTEM ANALYSIS INSTRUMENTATION



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SH450 MULTI-FUNCTION SUPERHEAT THERMOMETER & SYSTEM ANALYZER

The **SH450** system analyzer is a versatile diagnostic tool for accurately measuring and evaluating the performance of today's advanced HVAC/R systems.

Measurement capabilities include pressure, superheat, sub cooling, relative humidity, wet bulb, dry bulb and dew point with a range of highly accurate, job specific probes and sensors. The unit is also an advanced multichannel thermometer, incorporating 4 discrete temperature channels with temperature differential between any 2 of the 4 inputs, min/ max, scan and data record functions. Powered by one 9V alkaline battery (included), the unit is designed for portability, yet can still be powered via an optional 110V power supply for permanent, stationary applications.

The versatile **SH450** comes standard with one clamp-on temperature probe **TMX3C**, one Velcro[™] strap pipe probe, one general purpose temperature probe **TMX2G** and a six pack of wet bulb socks **TMX3WB**. Optional accessory probes are shown on page 46 and offer the convenience of interchangeable use with other CPS manufactured products including our advanced line of digital manifolds.

SH450 KEY FEATURES:

- Integrated 90+ refrigerant PT (pressure/ temperature) table
- Four discrete temperature channels
- Superheat and subcool measuring functions
- Displays bubble and vapor saturation temperatures
- Direct relative humidity and wet bulb measurements
- Temperature differential with min / max memory
- Stainless steel pressure-vacuum sensor with a range of -14.7 Psi to 725 Psi
- Reads in Psig, KPa, bar, Hg, kg/cm2
- High accuracy silicon humidity transducer probe port
- Operates on 9V battery or optional wall transformer
- Auto-off or continuous on mode
- Large 4-digit backlit display
- Calibrated to NIST traceable standards
- Includes: general purpose probe TMX2G; clampon surface probe TMX3C; 9V alkaline battery and owner's manual



Pressure Range	-14.7 Psig to 725.0 Psig (-100 kPa to 5000 kPa)
Pressure Accuracy	±1% of reading or ± 0.5 Psig (± 3.5 kPa)
Pressure Units	Psig, kPa, bar, Hg, kg/cm2
Proof Pressure	1000 Psi (7000 KPa)
Dew or Bubble Saturation Temperature	±1.8°F (±1.0°C)
Measurement Temperature Range	-40°F to +300°F (-40°C to +150°C) Actual temp range depends on the probe being used
Temperature Resolution	±0.1°F or °C
Superheat/Subcool Accuracy	±0.4°F / ±0.2°C from 14.0°F to 158°F / -10.0°F to 70°C; 0.6°F / 0.3°C elsewhere in the range
RH Range	0 to 100%RH
RH Accuracy (TMX3RH)	±1.8%RH from 10 to 90%RH; ± 3% elsewhere in the range
DB Accuracy (TMX3RH)	±1.2% of reading ± 1.0°F from -40°F to 200°F (± 1.2% of reading ± 0.5°C from -40°C to 90°C)
Power Source	9V alkaline battery or optional TMX3PS AC adapter for 100 to 240VAC (40 to 60 Hz) - USA Plug
Battery Life	30hr continuous use
Automatic Power Off	After 10 minutes of inactivity

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TM360 SERIES, 4 STATION THERMO-PSYCHROMETER

TM360 Series are professional grade instruments that can accommodate all your temperature, humidity, dry/wet bulb and dew point measurements. **TM360** incorporates 4 discrete temperature ports capable of min/max and memory functions including temperature differential between any 2 of the 4 available ports. Display and alternate between four ports to continuously monitor multiple probes during system diagnosis.

A dedicated special purpose port accommodates an optional state-of-theart silicon humidity transducer probe for fast and accurate measurements during superheat calculations. Housed in a rugged polyethylene case, the **TM360** is engineered to provide laboratory accuracy in rough field conditions. A generous probe storage area is provided to contain all your job specific probes.

TM360 KEY FEATURES:

- Four discrete temperature channels
- High accuracy silicon humidity transducer probe port
- Large 4-digit, easy-to-read, backlit display
- Min/Max and memory functions
- Temperature differential between any 2 of the 4 temperature ports
- Direct relative humidity and wet bulb measurements
- Calibrated to NIST traceable standards
- Auto-off after 10 minutes of nonuse or continuous ON mode
- Operates 30 continuous hr on (1) 9V alkaline battery
- Integrated battery eliminator jack
- Rugged polyethylene carrying case
- Large probe storage area
- Switchable °C/°F
- TM360 includes accessory probes TMX2A, TMX2G, TMX2S
- TM360C includes accessory probes TMX2A, TMX2S, TMX3C



Temperature Resolution	±0.1°F or °C
Temperature	±0.4°F / ±0.2°C from 14.0 to 158°F -10.0 to 70°C; 0.6°F / 0.3°C elsewhere in the range
RH Range	0 to 100%RH
RH Accuracy (TMX3RH)	±1.8% RH from 10 to 90%RH; ± 3% elsewhere in the range
DB Accuracy (TMX3RH)	±1.2% of reading ± 1.0°F from -40°F to 200°F (± 1.2% of reading ± 0.5°C from -40°C to 90°C)
Power Source	9V alkaline battery or optional TMX3PS AC adapter for 100 to 240VAC (40 to 60 Hz)
Battery Life	30hr continuous use
Automatic Power	Off After 10 minutes of non-use, or user selectable continuous ON mode
Backlight	15 seconds

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	FOF	ACCESSORIE R USE WITH SH	S & SPECIFICA 1450, TM360 AI	TION: ND TI	S 1360C	F	or use wit	n
	Item	Description	Common Uses	Qty	Operating Temperature Range	TM360	TM360C	SH450
тмх2А	TMX2A	Moving Air Probe, 15' (4.5 m) Lead	Air: Ducting, registers, air movement across condensers, ambient air	1	-40°F to 221°F (-40C to +105°C)	Yes*	Yes*	Yes
TMX2G	TMX2G	General Purpose Probe, 15' (4.5 m) Lead	Surface, Air, Liquids: Copper pipe, ambient air, RH wet sock method	1	-40°F to 257°F (-40C to +125°C)	Yes*	n/a	Yes*
TMX2GA	TMX2GA	General Purpose Air Probe, 15' (4.5 m) Lead	Air, Surface, Liquids: Ambient air, ducting, registers, air movement across condensers.	1	-40°F to 257°F (-40C to +125°C)	n/a	n/a	Yes
TMX2P	ТМХ2Р	Puncture Probe , 15' (4.5 m) Lead	Surface, Liquids (Shaft Only): Internal temperatures of frozen materials, air ducts	1	-40°F to 257°F (-40C to +125°C)	Yes	n/a	Yes
TMX2S	TMX2S	Velcro Strap Pipe Probe, 15' (4.5 m) Lead	Surface: temperatures of copper tubing	1	-40°F to 257°F / -40°C to +125°C	Yes*	Yes*	Yes
TMX3C	ТМХЗС	Clamp-On Surface Probe, 15' (4.5 m) Lead	Surface: temperatures of copper tubing	1	-40°F to 221°F (-40C to +105°C)	Yes	Yes*	Yes*
CDS network Humbery	TMX2RH	Relative Humidity / Dewpoint Probe	Specialty RH Probe: Measure indoor air quality, set/ troubleshoot humidity devices	1	-40°F to 194°F (-40C to +90°C)		or use with 50 and TM	
TMX2RH TMX3RH	TMX3RH	Relative Humidity / Dry Bulb / Wet Bulb / Dew Point Probe	Specialty RH Probe: Measure indoor air quality, set/ troubleshoot humidity devices	1	-40°F to 194°F (-40C to +90°C)	Yes	Yes	Yes
	TMX3WB	Wet Bulb Socks	for Use With TM360	6	-40°F to 194°F (-40C to +90°C)	Yes	Yes	n/a
	TMX3PS	AC Adapter for 100 to 240V (40-60 Hz)- USA Plug	for TM360, SH450	1	32°F to 140°F (0 C to +60°C)	Yes	Yes	Yes
ТМХЗРЅ	*Indicator accor	sorv is included wit	the model					

*Indicates accessory is included with the model

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TMINI12 NON-CONTACT THERMOMETER

The TMINI12 infrared thermometer provides easy, instant temperature measurement over a wide range of applications. TMINI12 offers convenient one-hand operation, laser point sighting, a backlit LCD display, °F/°C selection, automatic power off feature, built-in LED light, K-Type input for use with optional accessory temperature probes.

Use the TMINI12 to quickly and easily measure temperatures of registers, ductwork, furnaces, evaporators, condensers, compressors, relays, manifolds, radiators, exhaust systems, thermostats, bearings and more. Includes carrying case and 9V alkaline battery.



Built in LED Light

Temperature Range	-76°F to 932°F (-60°C to 500°C)
D:S (Distance to Spot Size)	12:1
Emissivity	Pre-set at 0.95 - adjustable
Accuracy	$\pm 2^{\circ}C$ ($\pm 4^{\circ}F$) or $\pm 2\%$ of reading
Display	Digital Backlit LCD
Resolution	1°C/°F
Batteries	2 AAA
Warranty	1 year

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TEMP-SEEKER

TMINI12

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TMXSK90 K-TYPE TEMPERATURE PROBE

The **TMXSK** is the fastest and most accurate handheld K-type surface probe providing accurate readings in less than 5 seconds. The sensor is made from flat-spring ribbons of thermocouple material for contact on uneven surfaces. A square, ribbed handle for grip and a 3' coiled lead for durability and long reach. The exposed junction provides for fast response and is compatible with any other instrument with a K-type input.

- K-Type Surface Probe (Angled, 90 Degree Head)
- Max Temp: 752°F (400°C)





K-type accessory probe

other instrument with a K Type input.



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TMXSK TEMPERATURE PROBE

Identical to the **TMXSK90**, but with a straight probe and round, ribbed handle.

- K-Type Surface Probe (Straight Head)
- Max Temp: 752°F (400°C)

TMXKBEAD TEMPERATURE PROBE

The **TMXKBEAD** is a standard K-type bead probe ideally suited for getting fast results when measuring temperature in a variety of media. This 36[°] long (1 m) probe provides accurate readings in less than 5 seconds.

- K-Type Flexible 36" (1 m) Probe
- Max Temp: 400°F (204°C) Min Temp: -58°F (-50°C)





TMAP ANALOG POCKET THERMOMETER

- Fahrenheit scale
- 1["] dial and stainless steel probe and pocket clip
- 0°F to 220°F
- 5″ (127 mm)

TMAPC ANALOG POCKET THERMOMETER

- Celsius scale
- 1" dial and stainless steel probe and pocket clip
- -40°C to 80°C
- 5″ (127 mm)





TMDP DIGITAL POCKET THERMOMETER

- Celsius scale
- -58° to 302°F (-50° to 150°C)
- 5″ (127 mm)

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BLACKMAX® DIGITAL MANIFOLDS INDUSTRY LEADING ACCURACY



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BLACKMAX® WIRELESS DIGITAL MANIFOLDS WITH CPS LINK™ APP

Our digital manifolds combine the latest design and electronic measurement features into one easy-to-use, accurate and water resistant product in a rugged nylon plastic housing, incorporating a durable elastomeric keypad and large backlighted LCD display. Two and four valve manifolds are designed and manufactured in the USA with U.S. and globally sourced components.

CPS Link[™] is patented technology for iOS and Android mobile applications (APPs), designed to communicate with and control select functions of BlackMax Digital Wireless Manifolds.



CPS LINK[™] APP

CPS Link allows HVAC/R technicians the convenience of running and monitoring a BlackMax digital manifold (from up to 300 feet away), while also providing additional capabilities not found in non-wireless versions.

- Fast, convenient touch screen control
- Comprehensive views of system measurements
- Graphical depictions of test functions
- Data logging
- Geolocation data and more
- If your mobile device is not available, your wireless manifold may be operated as a stand alone device using the yellow keypad.





- Perform and monitor select system measurements—in real time without the need to physically touch the manifold
- Alternate views for smaller mobile devices
- Color scheme change according to refrigerant
- Pressure hold or vacuum hold tests can be viewed, saved, stored or emailed as a graph
- Supports over 100 common refrigerants, with quick access to your favorite five
- APP updates for new refrigerants
- Change manifold units; (Pressure, Temperature, Vacuum)
- Multi-language

Help

will go back to the initial

Help Screen

To navigate through the Black Manifold Application use the buttons in the na



Access Favorite Five Refrigerants

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Vacuum Hold Test



MD100WVHEC BLACKMAX® LIMITED EDITION CAMO FINISH WIRELESS DIGITAL MANIFOLD



BLACKMAX® DIGITAL MANIFOLDS BEST-IN-CLASS ACCURACY

- Pressure: 1% of reading pressure
- Temperature: superior thermistor sensors for +/- 0.2°C (+/- 0.4°F) accuracy
- Vacuum: direct system attachment achieves +/- 10 microns from 0 to 25,000 microns

SIMPLICITY AND VERSATILITY

- One key ON/OFF and function select
- Preloaded with over 100 refrigerants
- Compatible with R744 subcritical CO2 refrigerants
- One-touch access to your favorite five refrigerants
- Performs pressure decay and vacuum rise tests
- Uses 4AA alkaline or rechargeable batteries
- 25 hours of continuous battery life with backlight; 40 hours without

FULL SYSTEM MEASUREMENT

- 2 Pressures, 2 temperatures and vacuum (using MDXVG accessory)
- Vacuum rise and pressure decay test functions
- Simultaneously displays:
 - HI & LO Pressures, Superheat & Subcooling
 - HI & LO Pressures, T1 & T2
 - HI & LO Pressures, Saturation T1 & Saturation T2
 - HI & LO Pressures, Displays T1, T2 & Delta T

RUGGED DESIGN

- Rain-proof, high strength glass-filled nylon housing
- Precision machined anodized aluminum manifold body
- Proprietary Vortech[™] valve systems (certified to 15 microns)
- High-impact polycarbonate LCD window
- Advanced sight glass design



MD100 Non-wireless 4 valve series



MD50 Non-wireless 2 valve series

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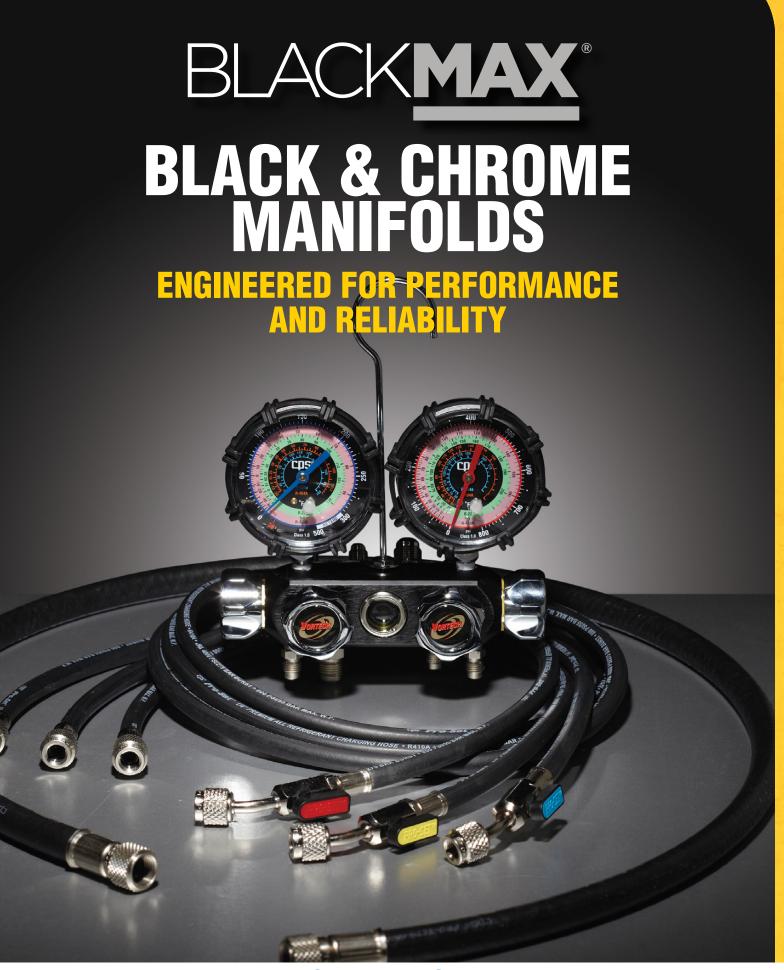
				P	C AN ESS Or a list of the second seco		
BLACKMAX® Digital Manifolds	Number Of Valves	5' Black & Chrome Ball Valve Charging Hoses 3 Pk (HP5BKEZ)	5' Heavy Duty Black & Chrome Vacuum Hose (1) (HV5Z)	Thermistor Sensor with 6' leads (MDXCP) x 2	Vacuum Gauge Accessory Kit* (MDXVG)	Rechargeable NiMH Battery and Universal Plug Kit** (MDXBK)	Soft Case For All MD Series (MDXSC)
MD50				\checkmark	Optional	Optional	Optional
MD50W Wireless				\checkmark	Optional	Optional	Optional
MD50HE	0	\checkmark		\checkmark	Optional	Optional	Optional
MD50WHE Wireless	2	\checkmark		\checkmark	Optional	Optional	Optional
MD50VHE		\checkmark		\checkmark	\checkmark	Optional	Optional
MD50WVHE Wireless		\checkmark		\checkmark	\checkmark	Optional	Optional
MD100		Optional		\checkmark	Optional	Optional	Optional
MD100W Wireless				\checkmark	Optional	Optional	Optional
MD100HE		\checkmark	\checkmark	\checkmark	Optional	Optional	Optional
MD100WHE Wireless	4	\checkmark	\checkmark	\checkmark	Optional	Optional	Optional
MD100VHE		\checkmark	\checkmark	\checkmark	\checkmark	Optional	Optional
MD100WVHE Wireless		\checkmark	\checkmark	\checkmark	\checkmark	Optional	Optional
MD100WVHEC Wireless NEW! CAMO Limited Edition		\checkmark	\checkmark	\checkmark	\checkmark	Optional	Optional

*Includes Vacuum Accessory & 1 AVT45 1/4" SAE Brass Tee Connector. **Includes 1 Universal Charger With 5' Cord; 4 rechargeable NiMH batteries, 1 U.S. Plug, 1 Euro Plug, 1 Australia/New Zeeland/China Plug, 1 UK/Ireland/Singapore/Hong Kong Plug.



Manifolds and Gauges

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BLACKMAX® BLACK & CHROME MANIFOLDS WITH VORTECH™ VALVES

- Two and four valve manifolds designed and manufactured in USA with U.S. and globally sourced components
- Proprietary Vortech[™] valves (certified to 15 microns)
- Black anodized aluminum body with large sight glass
- Heavy duty nickel plated metal handles
- Auxiliary center access port with Schrader valve (2 valve units)
- Protective gauge boots and packaged in display tin
- Superior refrigerant metering and control

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BLACKMAX® BLACK & CHROME VORTECH™ VALVE MANIFOLDS						
c	nosifications	3-1/8″ (80 mm)				
Specifications		North America	South America			
	Refrigerant Scales	R134a, R22, R404a, R410a	R410a, R22, R407c			
		Class 1.0 a	ccuracy			
Gauge Description	Gauge Size / Type	* Gauges built with internal silicon dampening cup for flutter-free operation				
	Pressure Scales	Psi	bar / Psi			
	Temperature Scales	°F	°C			
Fittings	Manifold & Hose fittings	$1/_4$ SAE 45° fittings				
Two Valve	3 Premium 5' Pro-Set® Black & Chrome Hoses	MV2H4P5Z	MV204P5Z			
Manifolds	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MV2H4P5EZ	MV204P5EZ			
Four Valve	3 Premium 5' Pro-Set® Black & Chrome Hoses	MV4H4P5Z	MV404P5Z			
Manifolds	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MV4H4P5EZ	MV404P5EZ			
	Low Side Gauge	RGH4L	RGO4L			
Replacement Gauges	High Side Gauge	RGH4H	RGO4H			
uduyus	Gauge Boot	RGX80B	RGX80B			



BLACKMAX® BLACK & CHROME BARRIER CHARGING HOSES







5' premium Black & Chrome™ 3/8″ charging hose

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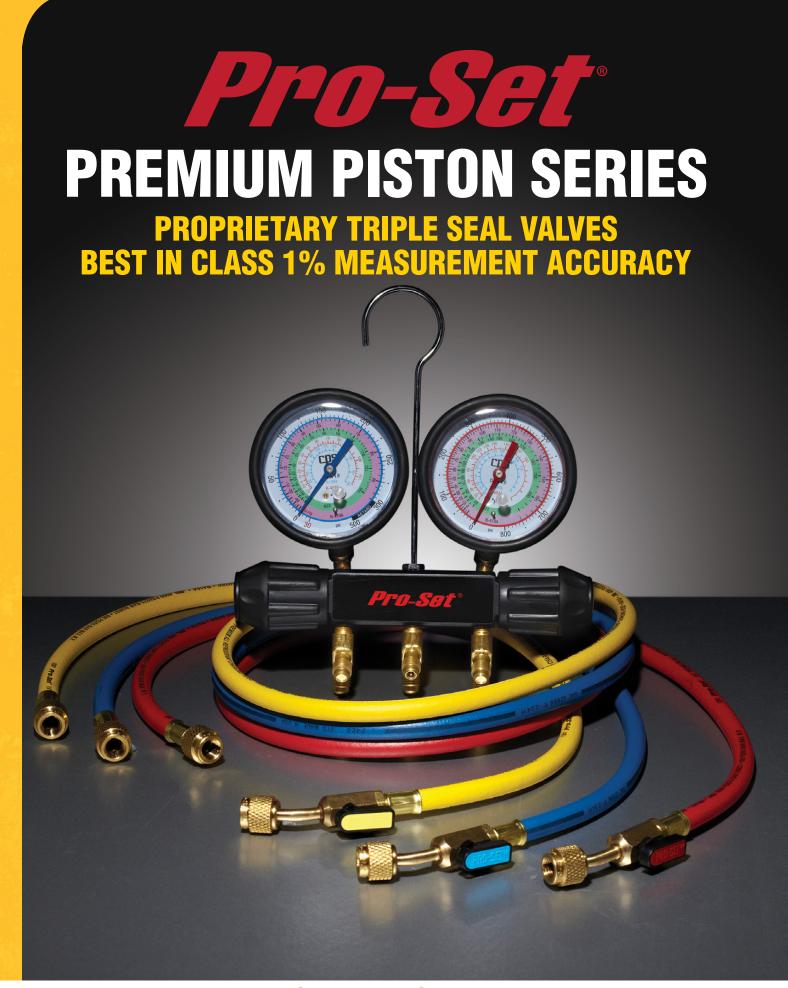
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BLACKMAX® BLACK & CHROME MANIFOLDS WITH TRIPLE-SEAL VALVES Proprietary Triple Seal valve systems BLACKMA • 2 valve units designed and manufactured in USA with U.S. and globally sourced components MBH4P5EZ • Black anodized aluminum block body • No flutter gauges with protective boots and rugged metal housings • Nickel plated 1/4" SAE 45 fittings • Auxiliary center access port with Schrader valve · Heavy duty nickel plated metal handles • Protective gauge boots and packaged in display tin • Proprietary Vortech[™] valves RGX681B RGX801B RGH5H RGH5L (Spider Design) (Ribbed Design) BLACKMAX® BLACK & CHROME TRIPLE SEAL VALVE MANIFOLDS

Specifications		3-1/8″	(80 mm)	2-1/2″ (68 mm)		
		North America South America		North America South America Australia	North America	
	Refrigerant Scales	R134a, R22, R404a, R410a	R410A, R22, R407C	R410a	R134a, R22, R404a, R410a	
Gauge	Gauge Size / Type	Class 1.0) accuracy	Class 1.6	accuracy	
Description		* Gauges bui	It with internal silicon dampenir	g cup for flutter-free operation		
	Pressure Scales	Psi bar / Psi		Psi / kPa	Psi	
	Temperature Scales	°F	°C	°F/°C	°F	
Fittings	Manifold and Hose Fittings		1/4" SAE 45° fitti	tings		
	Manifold & Gauges Only	MBH4Z	MB04Z	MBB5Z	MBH5Z	
Two Valve Manifolds	3 Premium 5' Pro-Set® Black & Chrome Hoses	MBH4P5Z	MB04P5Z	MBB5P5Z	MBH5P5Z	
	3 Premium 5' Pro-Set® Black & Chrome BV Hoses	MBH4P5EZ	MB04P5EZ	MBB5P5EZ	MBH5P5EZ	
	Low Side Gauge	RGH4L	RGO4L	RGB5L	RGH5L	
Replacement Gauges	High Side Gauge	RGH4H	RGO4H	RGB5H	RGH5H	
	Gauge Boot	RGX801B Ribbed	RGX801B Ribbed	RGX681B Spider	RGX68SB Spider	

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$\textsc{PR0-Set}^{\otimes}$ the Workingman's Choice premium Piston Series

The Workingman's Choice series 2 valve anodized aluminum block body with 1/4" SAE 45° fittings, Triple Seal piston valves, sure grip rubber over metal valve handles, easy-to-read 3 1/8" (80 mm) Class 1.0 accuracy gauges, protective gauge boots, extra access port in center with Schrader valve and hanging hook.

TRIPLE SEAL[™] VALVES

 3 super Neoprene o-ring design



- Back-seating o-ring seals valve nut when fully open
- Floating nylon sealing disk
- Valve stems retract fully to provide maximum flow
- Mirror-like port finish for smooth valve movement





Durable, protective gauge boots

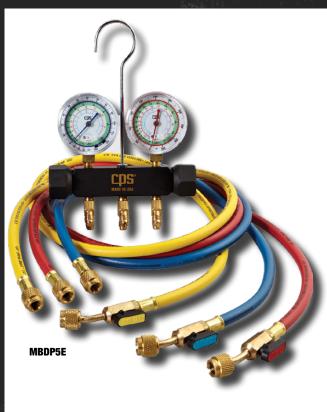


PRO-SET® WORKINGMAN'S CHOICE 2 VALVE MANIFOLDS

Specifications		3-1/8″ (80 mm)				
		North America	South America			
	Refrigerant Scales	R134a, R22, R404a, R410a	R410a, R22, R407c			
		Class	1.0 accuracy			
Gauge Description	Gauge Size / Type	* Gauges built with int for flutte	ternal silicon dampening cup r-free operation			
	Pressure Scales	Psi	bar / Psi			
	Temperature Scales	°F	C°			
Fittings	Manifold and Hose fittings	1/4" SAE 45° fittings				
	Manifold & Gauges Only	MT2H7	MT207			
Two Valve	3 Premium 5' Pro-Set® Hoses	MT2H7P5	MT207P5			
Manifolds	3 Premium 5' Pro-Set® AB Hoses	MT2H7P5A	MT207P5A			
	3 Premium 5' Pro-Set® BV Hoses	MT2H7P5E	MT207P5E			
	Low Side Gauge	RGH7L	RG07L			
Replacement Gauges	High Side Gauge	RGH7H	RG07H			
Gauges	Replacement Gauge Boot	RGXBW	RGXBW			

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PRO-SET [®] **BLACK BODY TRIPLE SEAL** ^{M} **PISTON 2 VALVE SERIES**

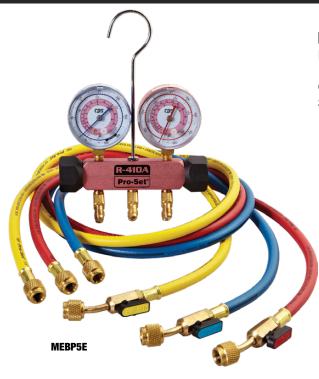
- 2 valve anodized aluminum block body
- 1/4" SAE 45° fittings
- 2-1/2" (68 mm) Class 1.6 accuracy gauges
- Extra access port in center with Schrader valve and hanging hook
 - TRIPLE SEAL[™] VALVES
 - 3 super Neoprene o-ring design
 - Back-seating o-ring seals valve nut when fully open
 - Floating nylon sealing disk
 - Valve stems retract fully to provide maximum flow
 - Mirror-like port finish for smooth valve movement



TRIPLE SEAL™ PISTON 2 VALVE BLACK BODY MANIFOLDS								
				2-	-1/2″ (68 mm)			
Specifications		North America		South America	South America	South		
			NUTUI AMETICA		Asia	Australia	America	
	Refrigerant Scales	R12, R22, R502	R134a, R22, R404a	R22, R404a, R410a,	R12, R134a, R22	R134a, R22, R404a	R410a, R22, R407c	
Gauge	Gauge Size / Type			Cla	iss 1.6 accuracy			
Description	Gauge Size / Type		* Gauges buil	t with internal sili	con dampening cup fo	or flutter-free operation		
	Pressure Scales	Psi			Psi / kPa	Psi / kPa		
	Temperature Scales	°F			°F/°C	٦°		
Fittings	Manifold & Gauges Only			1/4″	´SAE 45° fittings			
	Manifold & Gauges Only	MBC	MBD	MBH	MBZ	MBT	MBO	
	Three 3' Pro-Set® Hoses	MBCS3	MBDP3	MBHP3	MBZS3	MBTP3	MB0P3	
Two Valve	Three 5' Pro-Set® Hoses	MBCS5	MBDP5	MBHP5	MBZS5	MBTP5	MBOP5	
Manifolds	Three 5' Pro-Set® AB Hoses	NA	MBDP5A	MBHP5A	NA	MBTP5A	MB0P5A	
	Three 5' Pro-Set® BV Hoses	NA	MBDP5E	MBHP5E	NA	MBTP5E	MB0P5E	
Replacement	Low Side Gauge	RGCL	RGDL	RGHL	RGZL	RGTL	RGOL	
Gauges	High Side Gauge	RGCH	RGDH	RGHH	RGZH	RGTH	RGOH	

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PRO-SET[®] PINK BODY PISTON MANIFOLD SERIES

Piston series 2 valve anodized aluminum block body with 1/4" SAE 45° fittings, Triple Seal piston valves, 2-1/2" (68 mm) Class 1.6 accuracy gauges, extra access port in center with Schrader valve and hanging hook.

NON-FLUTTER GAUGE

Design with Rugged • 3 super Metal Housing Neoprer

FRONT CALIBRATION Access Port

ANODIZED ALUMINUM Block Body

EASY-TO-GRAB Large Knob

TRIPLE SEAL™ VALVES

3 super Neoprene o-ring design
Back-seating



- o-ring seals valve nut when fully openFloating nylon sealing disk
- Valve stems retract fully to provide maximum flow
- Mirror-like port finish for smooth valve movement

	TRIPLE SEAL [™] PISTON 2 VALVE PINK BODY MANIFOLDS							
				2 1/2″ (68 mm)				
	Spe	cifications	North	Amorico	South America			
A THIN A THINK				North America				
R-410A Pro-Set		Refrigerant Scales	R410a	R410a, R22, R404a	R410a			
	_			Class 1.6 accuracy	1			
	Gauge Description	Gauge Size / Type	*Gauges built	with internal silicon d flutter-free operatio	ampening cup for n			
		Pressure Scales	Psi / kPa	Psi	Psi / kPa			
		Temperature Scales	°F/°C	°F	°F/°C			
😽 🖼 🕅 MEB	Fittings	Manifold & Gauges Only	1/4" SAE 45° fittings		1/2″ - 20 UNF			
\bigcap	Two Valve Manifolds	Manifold & Gauges Only	MEB	MEH	MCB			
		3 Premium 3' Pro-Set® Hoses	MEBP3	MEHP3	MCBJ3			
		3 Premium 5' Pro-Set® Hoses	MEBP5	MEHP5	MCBJ5			
		3 Premium 5' Pro-Set® AB Hoses	MEBP5A	MEHP5A	MCBJ5A			
R-410A Pro-Set MEH		3 Premium 5' Pro-Set® BV Hoses	MEBP5E	MEHP5E	MCBJ5E			
	Replacement	Low Side Gauge	RGBL	RGHL	RGBL			
	Gauges	High Side Gauge	RGBH	RGHH	RGBH			

Manifolds and Gauges

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PRO-SET[®] VORTECH[™] DEEP VACUUM MANIFOLD SERIES

- Two-valve, r410A pink anodized aluminum block body
- 1/4" SAE 45° fittings
- Vortech[™] deep vacuum valves
- Extra large sight glass
- Easy-to-read 3-1/8" (80 mm) Class 1.6 accuracy gauges
- Protective gauge boots
- Extra access port in center with Schrader valve and hanging hook

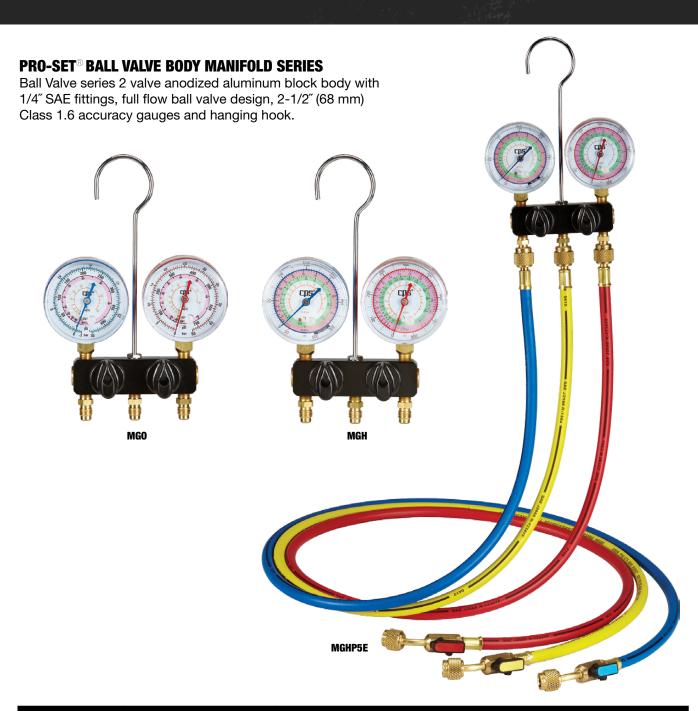


VORTECH™ DEEP VACUUM VALVE MANIFOLDS								
			3-1/8″ (80 m	m)				
S	pecifications	North /	America	South America	South America			
					Australia			
Refrigerant Scales		R410a, R22,	R404a, R134a	R410a, R22, R407c	R410a			
			Class 1.6 accu	racy				
Gauge	Gauge Size / Type	* Gauges bu	* Gauges built with internal silicon dampening cup for flutter-free operation					
Description			*Oil-Filled		*Oil-Filled			
	Pressure Scales	Psi	Psi	Psi / bar	Psi / kPa			
	Temperature Scales	°F	°F	°C	°F/°C			
Fittings	Manifold & Gauges Only		1/4″ SAE 45° fit	tings				
	Manifold & Gauges Only	MV3H2	MV3H3	MV302	MV3B3			
Two Valve	3 Premium 5' Pro-Set® Hoses	MV3H2P5	MV3H3P5	MV302P5	MV3B3P5			
Manifolds	3 Premium 5' Pro-Set® AB Hoses	MV3H2P5A	MV3H3P5A	MV302P5A	MV3B3P5A			
	3 Premium 5' Pro-Set® BV Hoses	MV3H2P5E	MV3H3P5E	MV302P5E	MV3B3P5E			
	Manifold & Gauges Only	MV13H2	MV13H3	MV1302	MV13B3			
Four Valve	3 Premium 5' Pro-Set® Hoses	MV13H2P5	MV13H3P5	MV1302P5	MV13B3P5			
Manifolds	3 Premium 5' Pro-Set® AB Hoses	MV13H2P5A	MV13H3P5A	MV1302P5A	MV13B3P5A			
	3 Premium 5' Pro-Set® BV Hoses	MV13H2P5E	MV13H3P5E	MV1302P5E	MV13B3P5E			
Replacement	Low Side Gauge	RGH2LB	RGH3L	RG02LB	RGB3L			
Gauges	High Side Gauge	RGH2HB	RGH3H	RG02HB	RGB3H			

Manifolds and Gauges

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BALL VALVE BODY MANIFOLD SERIES

	agaifigations	2-1/2″	(68 mm)	
ာ ၂၂၂၂၂	pecifications	North America	South America	
	Refrigerant Scales	R410a, R22, R404a	R410a, R22, R407c	
	Gauge Size / Type	Class 1.	6 accuracy	
Gauge Description	Gauge Size / Type	* Gauges built with internal silicon dampening cup for flutter-free operation		
	Pressure Scales	Psi	bar / Psi	
	Temperature Scales	°F	C°	
Fittings	Manifold and Hose Fittings	1/4″ SAE	45° fittings	
	Manifold & Gauges Only	MGH	MGO	
Two Valve	3 Premium 5' Barrier Hoses	MGHP5	MGOP5	
Manifolds	3 Premium 5' Barrier AB Hoses	MGHP5A	MGOP5A	
	3 Premium 5' Barrier BV Hoses	MGHP5E	MGOP5E	
Poplagement Courses	Low Side Gauge	RGHL	RGOL	
Replacement Gauges	High Side Gauge	RGHH	RGOH	

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MANIFOLD ACCESSORIES AND REPLACEMENT PARTS

A complete line of repair kits, parts and accessories to keep your manifold in brand-new condition. If you are looking for something or are unsure of the part you need, give us a call and let our specialists assist you.



Rugged canvas carrying

case for manifolds

MXC2



MXC Plastic carrying case for manifolds



MVXKC Replacement Valve Handle for BlackMax[®] Series w/ Vortech[™] Valves - Chrome Metal



MVXK Replacement valve handle w/ plugs for Vortech™ manifolds



MXK Replacement valve handle w/ labels for diaphragm manifolds



MXPK Replacement valve handle w/ labels for BlackMax[®] manifolds



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MXMH Hanging hook for all manifolds



M2XRK Diaphragm valve repair kit: services 2 valves



MXPV Complete BlackMax[®] piston valve assembly



2-way hose anchor bracket for Vortech[™] & diaphragm



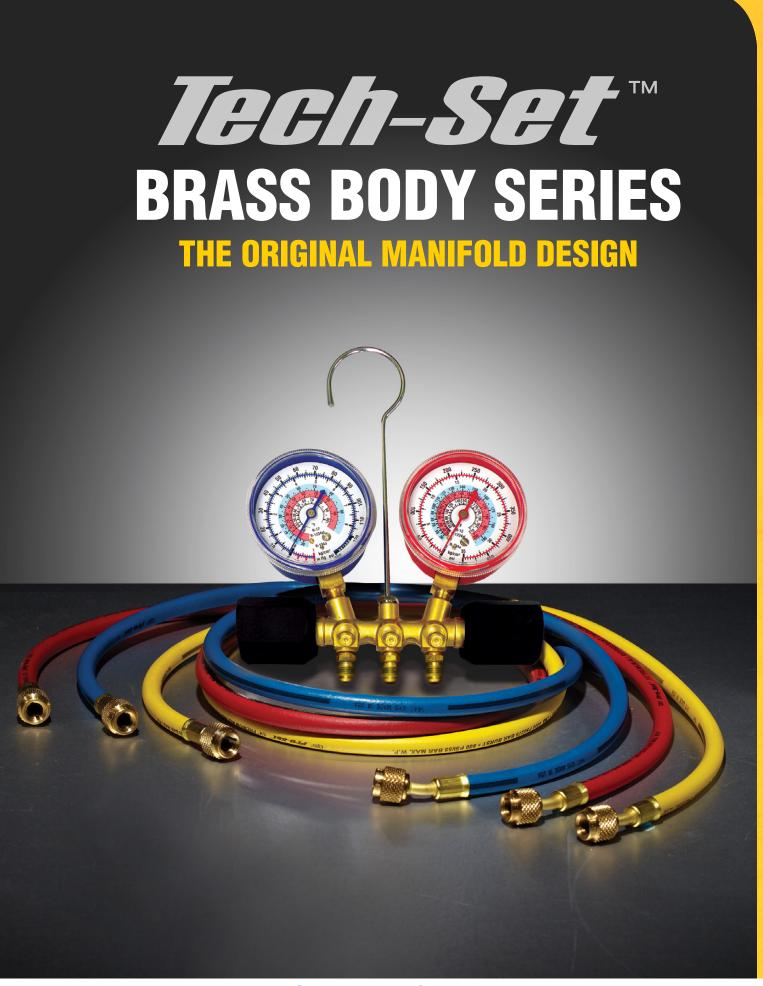
MXPV0 BlackMax[®] piston valve seals repair kit: services 2 valves

MISC. REPLACEMENT PARTS AND ACCESSORIES

4-way hose anchor bracket for Vortech™ & diaphragm	M4XHA
Diaphragm valve repair kit: services 4 valves	M4XRK
Diaphragm valve repair kit: services 5 valves	M5XRK
Vortech [™] valve repair kit: services 2 valves	MV2XRK
Vortech [™] valve repair kit: services 4 valves	MV4XRK
Vortech [™] valve repair kit: services 5 valves	MV5XRK
Replacement valve handle for brass manifold	MXBK

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TECH-SET[™] BRASS BODY MANIFOLD SERIES

2 valve forged brass body with 1/4[″] SAE 45° fittings, TripleSeal[™] piston valves and hanging hook.

- Quality forged brass body
- Full sized porting for maximum flow
- No flutter gauges with rugged molded housings
- Large easy-to-grip knobs

TRIPLE SEAL[™] VALVES

- 3 super Neoprene o-ring design
- Back-seating o-ring seals valve nut when fully open
- Floating nylon sealing disk
- Valve stems retract fully to provide maximum flow
- Mirror-like port finish for smooth valve movement



TECH-SET [™] BRASS BODY 2 VALVE MANIFOLDS & HOSE SETS								
	SPECIFICATIONS	N. America	S. America	N. America	S. America			
	Refrigerant Scales	R410a, R22, R	404a, R134a	R22, R134a,	R404a, R507A			
_ Gauge	Gauge Size / Type Gauges built with internal silicon dampening cup for flutter-free operation	3-1/8″ (80 mm) Cl	ass 1.6 accuracy	2-5/8″ (68 mm) (Class 1.6 accuracy			
Description	Pressure Scales	Psi/bar	bar/Psi	Psi/bar	bar/Psi			
	Temperature Scales	°F	C°	°F	°C			
Fittings	Manifold and Hose fittings		1/4″ SAE 45°	° fittings				
Two Valve	3 Standard 3' Hoses	NA	NA	M64G3	M63G3			
Manifolds	3 Prem-Flex 5' (1.52 m) Hoses	M62PF5	M61PF5	NA	NA			
	3 Prem-Flex 3' (0.91 m) Hoses	HPF3						
Replacement	3 Prem-Flex 5' (1.52 m) Hoses	HPF5						
Hoses	3 Standard 3' (0.91 m) Hoses		HG3	3				
	3 Standard 5' (1.52 m) Hoses	HG5						

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GT1

- 0-30 Psi (0-2 bar)
- 1 Psi (0.05 bar) increments
- 3/4" FPT Brass Bell



• 0-100 Psi (0-7 bar)

• 3/4" FPT Brass Bell

• 2 Psi (0.20 bar)

GT2

GT4 • 0-30 Psi (0-2 bar) • 1 Psi (0.05 bar) • 1["] FPT Brass Bell



GT SERIES GAS TEST

Test the integrity of new

would indicate a leak.

installations for pressure leaks by simply connecting the gauge, pressurize the system, using the supplied access

port, and monitor the easy-toread 3-1/2" (80 mm) gauge for potential pressure drops that

GAUGES



GT3 FUEL OIL TEST KIT

The **GT3** is a comprehensive test kit which includes the components necessary to test oil fuel pump performance while diagnosing related burner efficiency issues such as cleaner light-offs and coasting stops.

Manifolds and Gauges

INCLUDES:

- 2-1/2["] gauge, scale 30["], 0-150 lbs
- 2-1/2" gauge, scale 30", 0-300 lb
- 12" hose 1/4" female swivel x 1/4" female 45° swivel
- 1/8 NPT x 1/4 Male SAE adapter
- 1/8 NPT x 1/4 Male SAE 90° adapter
- 1/4 NPT x 1/4 Male SAE adapter
- 1/4 NPT x 1/4 Male SAE 90° adapter
- Carrying Case

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CHARGING HOSES OUR OFFERING IS AS FLEXIBLE AS OUR HOSES



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PRO-SET® PREMIUM UL/SAE BARRIER REFRIGERANT SERVICE HOSES

- Nylon permeation barrier (Meets SAE J2196)
- Leak-proof 8-sided crimp
- 800 Psi working pressure (per UL1963)
- 4000 Psi burst pressure
- Extra deep knurling on nuts for easy grip
- Adjustable valve core depressor
- Blow off grooves preventing spray back
- R-410A compatible, as well as CFC, HCFC and HFC refrigerants and blends
- * UL listed, File SA11622

PRO-SET® STANDARD REFRIGERANT SERVICE HOSES

- All-weather flexibility and strength
- Leak-proof 8-sided crimp
- 750 Psi working pressure
- 3000 Psi burst pressure
- Extra deep knurling on nuts for easy grip
- Adjustable valve core depressor
- Blow off grooves preventing spray back

								J.	\sim	\bigcirc	Q.
	e Length d Color	1/4″ H for all refr		1/4″ Hos ball valv	ses w/45° ve on end	anti-blow	v/Microseal™ back valve ne end	1/4″ ball val	In-line ve hoses	R-410A Hose w/ special 1/2"-20 Unf fittings	w/45° ball valve fitting in one end
		Premium	Standard	Premium	Standard	Premium	Standard	Premium	Standard	Premi	um
	Yellow	HP3Y	HS3Y*	HP3YE	HS3YE*	HP3YA*	HS3YA*	HP3YL*	HS3YL*	HJ3Y*	HJ3YE*
3' (90 cm)	Blue	HP3B	HS3B*	HP3BE	HS3BE*	HP3BA	HS3BA	HP3BL	HS3BL*	HJ3B*	HJ3BE*
3' (9	Red	HP3R*	HS3R	HP3RE*	HS3RE*	HP3RA	HS3RA*	HP3RL*	HS3RL*	HJ3R*	HJ3RE*
	3-Pack	HP3*	HS3	HP3E*	HS3E	HP3A*	HS3A	HP3L*	HS3L*	HJ3*	HJ3E*
	Yellow	na	HS4Y*	na	na	na	na	na	na	na	na
4' (120 cm)	Blue	na	HS4B*	na	na	na	na	na	na	na	na
4' (12	Red	na	HS4R*	na	na	na	na	na	na	na	na
	3-Pack	na	HS4*	na	na	na	na	na	na	na	na
	Yellow	HP5Y*	HS5Y*	HP5YE	HS5YE	HP5YA	HS5YA	HP5YL	HS5YL*	HJ5Y*	HJ5YE*
5' (150 cm)	Blue	HP5B	HS5B*	HP5BE	HS5BE*	HP5BA	HS5BA	HP5BL	HS5BL*	HJ5B*	HJ5BE*
5' (15	Red	HP5R	HS5R	HP5RE*	HS5RE	HP5RA*	HS5RA	HP5RL	HS5RL*	HJ5R*	HJ5RE*
	3-Pack	HP5*	HS5*	HP5E	HS5E*	HP5A*	HS5A	HP5L*	HS5L	HJ5*	HJ5E*
	Yellow	HP6Y*	HS6Y*	HP6YE	HS6YE*	HP6YA*	HS6YA*	HP6YL*	HS6YL*	na	na
0 cm)	Blue	HP6B	HS6B*	HP6BE	HS6BE	HP6BA	HS6BA	HP6BL	HS6BL*	na	na
6' (180 cm)	Red	HP6R	HS6R	HP6RE*	HS6RE*	HP6RA*	HS6RA*	HP6RL*	HS6RL*	na	na
Û	3-Pack	HP6*	HS6	HP6E	HS6E*	HP6A*	HS6A	HP6L*	HS6L*	na	na
	Yellow	na	HS8Y*	na	HS8YE*	na	HS8YA*	na	HS8YL*	na	na
) cm)	Blue	na	HS8B*	na	HS8BE*	na	HS8BA*	na	HS8BL*	na	na
8' (240 cm)	Red	na	HS8R*	na	HS8RE*	na	HS8RA*	na	HS8RL*	na	na
ω	3-Pack	na	HS8*	na	HS8E*	na	HS8A*	na	HS8L*	na	na
	Yellow	na	HS10Y*	na	na	na	na	na	na	na	na
10' (300 cm)	Blue	na	HS10B*	na	na	na	na	na	na	na	na
J' (30	Red	na	HS10R*	na	na	na	na	na	na	na	na
1(3-Pack	na	HS10*	na	na	na	na	na	na	na	na
*Non	ata alu itama	(mada ta ardar)									

*Non-stock item (made to order).

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SPECIALTY HOSES PRO-SET® PREMIUM 6" to 12" BALL VALVE HOSE EXTENSIONS

- Nylon permeation barrier (Meets SAE J2196)
- Leak-proof 8-sided crimp
- 800 Psi working pressure
- 4000 Psi burst pressure
- Extra deep knurling on nuts for easy grip
- Adjustable valve core depressor
- Blow off grooves (prevents spray back)
- R-410A compatible, as well as CFC, HCFC and HFC refrigerants and blends

	Contraction of the second seco	
TO TO		

Length	Description	Yellow	Blue	Red	3-Pack
5″ (15.2 cm)	1/4″ SAE	HTYE	HTBE	HTRE	HTE
12″ (30.5 cm)	1/4″ SAE	HT1YE	HT1BE	HT1RE	HT1E
6″ (15.2 cm)	1/2″- 20 SAE	HT410YEJ*	HT410BEJ*	HT410REJ*	HT410EJ

PRO-SET® PREMIUM PRESSURE CONTROL HOSES

Pro-Set pressure control hoses are constructed with a thermoplastic polymer inner tube and cover to eliminate the vibration failures of copper capillary tube installations. The higher temperature ratings of the thermoplastic (to 266° F) eliminates failures caused by maximum load conditions on rubber type pressure control hoses.

Length	90° x 90°	Straight x 90°	Straight x Straight	Fitting	Operating Temperature Range	Minimum Bend Radius
2' (60 cm)	HHC2*	HHC2S	HHC2SS*	1/4" SAE Hex Style		
3' (90 cm)	HHC3*	HHC3S	HHC3SS*	Straight & 90°, With	-49° F to 266°F (-45° to 130°C)	4″ 102 mm
4' (120 cm)	HHC4*	HHC4S*	HHC4SS*	Copper Gaskets	(40 10 100 0)	102 11111

*Non-stock item (made to order).



PRO-SET® PREMIUM 3/8" VACUUM/CHARGING HOSES (HEAVY DUTY)

- 5/16" I.D. heavy duty hose
- Permeation resistant barrier
- 460 Psi working pressure; 2300 Psi burst

Length	Without Ball Valve	With In-Line Ball Valve	Nylon Permeation Barrier	Leak Proof 8 Sided Crimp	Working Pressure	Burst Pressure	Deep Knurl Brass Fittings
3' (90 cm)	HV3*	na					
5' (150 cm)	HV5	HV5E	Yes	3/8″ SAE	460 Psi	2300 Psi	Yes
6' (180 cm)	HV6*	na	162	3/0 3AE	400 51	2300 551	Tes
8' (240 cm)	HV8*	na					
-							

*Non-stock item (made to order).



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TECH-SET[™] 1/4" CHARGING HOSES

Tech-Set[™] charging hoses are available in Standard or Prem-Flex grades and 3' & 5' lengths.



- All-weather resistant
- Rugged flexibility and durability
- Extra deep knurling on nuts for easy grip





Length	3 Pack (Red, Yellow, Blue)	Hose Type	Working Pressure	Burst Pressure	Adjustable Valve Core Depressor	Leak-Proof 8 Sided Crimp	Blow Off Grooves (Prevents Spray Back)	Refrigerant Compatibility
3 Ft. (90 cm)	HG3	Standard	750 PSI	3000 PSI				Compatible With
5 Ft (150 cm)	HG5	Stanuaru	(51 bar)	(206 bar)	./			CFC, HCFC, HFC
3 Ft. (90 cm)	HPF3	Prem-Flex	800 PSI	4000 PSI	V	v	V	refrigerants and
5 Ft (150 cm)	HPF5	FIGHI-FIGX	(55 bar)	(275 bar)				blends

CHARGING HOSE REPLACEMENT PARTS



HXG (10) Hose 1/4" SAE Neoprene Gaskets



(10) Hose Gaskets, 3/8" SAE Neoprene



HXGD (10) Hose 1/4" SAE Neoprene Gasket & (10) Core Depressor



HXG2 (10) 1/2^{*r*} ACME, 1/2^{*r*}-20 UNF Replacement Hose Gaskets



HXGD2 (6) 1/2" ACME, 1/2"-20 UNF Gaskets & (6) Core Depressors



(6) Hose Gaskets, 1/4" SAE Microseal Antiblowback



HXTG2 (10) Hose Gaskets, 1/2⁻²⁰ UNF & 1/2⁻²⁰ ACME Teflon[®]



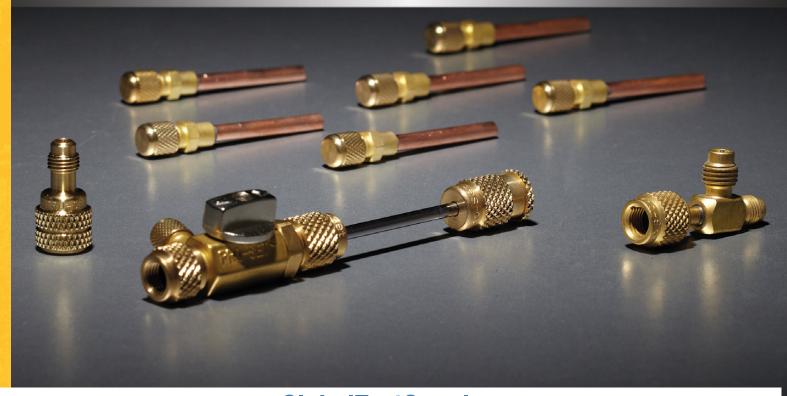


(10) Hose Gaskets, 1/4" SAE Teflon®

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ADAPTERS, FITTINGS, VALVES & VALVE CORE TOOLS MANUFACTURED TO STRINGENT INDUSTRY STANDARDS



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AD12	AD14	AD149C	AD18C	AD24/AD24B	AD36C	AD41/AD41B	AD44/AD44B
AD47/AD47B	AD48/AD48B	ADG1/ADG1B	AD68	AD68V	O AD71	AD78/AD78B	AD81/AD81B
	8	<u>r</u>	(Line)	ALC: NA			
AD84/AD84B	AD84C	AD87/AD87B	AD875	AD369C	AD849C	ADXFW	
ADAPTERS	_	_	_	_			_
ADAPTERS Female		Male	Description		Application	Qty / Pk	Item
			no valve core	TLVC Valve Cor	e Tool for R-12 Auto. HI-si		AD36
3/16″ SAE		1/4″ SAE	with valve core	۸+	amativa adaptar	1	AD36C
	1/	/4″ SAE 90°	w/ valve core	Aut	omotive adapter	1	AD369C
		1/8″ SAE			olds, compressors	1	AD18C
1/4″ SAE	1/	/4″ SAE 90°	w/ valve core	Aut	omotive adapter	1	AD149C
	1/2″ ACME 3/8″ SAE 5/16″ SAE	I/2″ ACME		Vacuum pump	s/manifolds/recovery/tank	s <u>3</u> 50	AD48 AD48B
, -		3/8″ SAE	w/core & depressor	V	acuum pumps	1	AD466
		w/ valve core		10A International	1	AD78	
			wy valve core		TOA International	100	AD78B AD87
5/16″ SAE		1/4″ SAE	w/ valve core	R-4	10A International	100	AD87B
5/16" (Swivel)	1/	/4″ SAE 55°	.,			1	AD87S
		3/8″ SAE	w/core & depressor	V	acuum pumps	3	AD68
	Lov	w side R-134a	-	R-134	a automotive tanks	1	AD12
1/2″ ACME		1/4″ 0 4 5	no valve core		- /:falda //fanl	s 100	AD84 AD84B
		1/4″ SAE	w/ valve core	vacuum pump	s/manifolds/recovery/tank	s 100 3	AD84D
1/2" ACME (90°)		1/4″ SAE	w/ valve core	Aut	omotive adapter	3	AD849C
1/2″ SAE		3/8″ SAE	w/core & depressor		acuum pumps	1	AD68V
						1	AD61
		3/8″ SAE				100	AD61B
3/4″ -14		1/4″ SAE	w/ gasket	Largo	25 lb tank adapters	1	AD41
0/4 -14	1	5/16″ SAE	W/ Yaskei	Large		100 1	AD41B AD71
						1	AD71 AD81
		1/2″ ACME				100	AD81B
	1/4″ S	AE x 1/8" MNPT	w/ cap and valve core	Manif	olds, compressors	6 100	AD24 AD24B
	1/4″ S	AE x 1/4″ MNPT	w/ cap and valve core	Vacuum	Pumps, compressors	6	AD44
-			oup and valve oole			100	AD44B
		nm x 1/4" SAE SAE x 1/4" SAE	-		automotive couplers	1	AD14 AD47
	1/7	Union		1/	1/4" Hose union		AD47B
21.8 Whitworth		3/8″ SAE	w/ gasket	Larg	e cylinder adapter	1 100	AD91 AD91B
			asher for AD41 /61 /71 /8	-		100	AD918

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Fittings



ADAPTERS -TEES CONNECTORS

	Qty/ Pk	Item						
		x 1/4" SAE FM hex	3	AVT64				
		X 1/4 SAE FIVI HEX	100	AVT64B				
1/4″ SAE M	x 1/4″ SAE M	x 1/8″ MNPT	3	AVT2P				
(with cap and core)		x 1/4″ MNPT	3	AVT4P				
		x 1/4"SAE FM, no depressors	1	AVT64Z				
	x 1/8″ MNPT	x 1/4" SAE M	3	AVT4				
	x 1/4" SAE female knurl	x 1/4" SAE Male	3	AVT45				
1/1" CAE M	X 1/4 SAE lethale khult	x 1/2″ ACME M	1	AVT48				
1/4″ SAE M	x 1/8″ MNPT	x 1/4" SAE M w/ Core	3	AVT4M				
	x 5/16" SAE female knurl	x 1/2"-20 M Adapter Fitting	1	AVT87				
1/4" SAE Female Hex	x 1/4″ SAE M	x 1/4" SAE M with cap and core	3	AVT44				



COPPER TUBE EXTENSION VALVES

Description		Standard Cap		Wrench Cap	
Outer Diameter	Inner Diameter	6pk	6pk 100pk		100pk
1/8″	1/16″	AV2	AV2B	AV2R	AV2RB*
3/16″	1/8″	AV3	AV3B	AV3R	AV3RB
1/4″	3/16″	AV4	AV4B	AV4R	AV4RB*
	3/16" W/4" COP-TB EXT	AV4L	AV4LB*	AV4LR	AV4LRB
5/16″	1/4‴	AV5	AV5B*	AV5R	AV5RB*
5/16" (1/2"- 20) ACCES,1/4"	3/16″	AV4410	AV4410B	N/A	N/A
3/8″	5/16″	AV6	AV6B	AV6R	AV6RB*
6 mm	5 mm	AV6MM	AV6MB	AV6MR	AV6MRB

*Non-stock item.

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MULTI-STEP BODIES

Inner Diameter	Outer Diameter	Notes	ITEM		
			6pk	100pk	
1/8″	3/16″, 1/4″, 5/16″ SLDR		AVB456	AVB456B	
	1/4" SLDR		AVB34	AVB34B	
0// 0//	1/4″ x 3/8″ SLDR	(assembled)	AVB346 (assembled)	AVB346B	
3/16″		(unassembled)		AVB346BU	
		(cap w/core tool)		AVB346RB	
				AVB346B0	
1/4″	3/8″ SLDR		AVB46	AVB46B	
	6-8-10mm SLDR		AVB6	AVB6B	
			AVDO	AVB6BC	



ICK SEAL O-RING	A CAPS		
Thread	Description	Qty / Pk	ITEM
	ACME brass cap w/chain tether	2	AVC134C
1/2″	ACME plastic cap w/ straps	2	AVC134PS
	SAE brass cap w/chain tether	2	AVC8C
		10	AVC4
	SAE brass caps	25	AVC425
		100	AVC4B
	CAE brace cap w/abain tather	2	AVC4C
1/4″	SAE brass cap w/chain tether	100	AVC4CB
1/4	CAE plastia cons	6	AVC4P
	SAE plastic caps	100	AVC4PB
	SAE plastic caps w/ straps	6	AVC4PS
		6	AVC4R
	SAE brass cap w/core remover	100	AVC4RB
	D 4104 broos con	10	AVC410
F /1 0 //	R-410A brass cap	100	AVC410B
5/16″		2	AVC410C
	brass cap w/chain tether	100	AVC410CB
	CAE broos can w/abain tatbar	2	AVC6C
3/8″	SAE brass cap w/chain tether	100	AVC6CB
	SAE plastic caps	3	AVC6P
20	R-134a hI side caps	10	AVC134H
na	R-134a low side caps	10	AVC134L
1/4", 1/2", 3/8"	SAE Vacuum pump brass cap kit w/chain	1 each	AVCVAC

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COPPER TUBE TEES					
Description	Outer Diameter Qty / Pk		ITEM		
1/4″ SAE	5/16″	3	AVCT5		
	3/8″	3	AVCT6		
	1/4″	3	AVCT4		
	1-1/8″	1	AVCT18		
1/4″	5/8″	1	AVCT10		
	1/2″	3	AVCT8		
	3/4″	1	AVCT12		
	7/8″	1	AVCT14		



VALVE CORES		
Description	Qty / Pk	Item
	10	AVS1
Valve cores	25	AVS125
	100	AVS1B
	1000	AVS1BC
Tech-Set valve cores w/1 cap in vial	1	AVS1V
1/4" SAE x 1/4" F swivel	3	AVS44

VALVE CORE TOOLS				
Description	Qty / Pk	Item		
1/4″ SAE Core Remover / Installer Tool	1	TLVC		
Pocket Valve Core Tool w/ 4 Spare Cores	1	TLVC1		
Dual Valve Core Tool (1/4" SAE	1	TLVC2		
Valves & Auto R-134a Valves)	100	TLVC2B		
4-Way 1/4" & 3/16" SAE Valve Core / Thread Chaser	1	TLVC4		
5/16″ SAE Valve Core Remover / Installer Tool	1	TLVC410		
Mini-Split 5/16" F x 1/4" M Valve Core Tool	1	TLVC410A		
1/4" SAE Valve Core Remover / Installer Tool w/ Side Port	1	TLVCS		
5/16" FM x 5/16" Male Valve Core Remover / Installer Tool w/ 5/16" Side Port	1	TLVCS410		
5/16" FM x 1/4" SAE Male Valve Core Remover / Installer Tool w/ 1/4" Male Side Port	1	TLVCS410A		





BACK-SEATING CONTROL VALVES					
Description	Qty / Pk	Item			
1/4 [~] SAE M X 1/4 [~] SAE FM Back-Seating Valve	1	TLVCD1			
5/16" SAE M X 5/16" SAE FM Back-Seating Valve	1	TLVCD2			
1/4″ SAE M X 5/16″ SAE FM Back-Seating Valve	1	TLVCD3			

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MICROSEAL™ QUICK COUPLERS					
Female	Male	Description	Qty / Pk	ltem	
		Straight	1	AB	
			3	AB3	
1 <i>//″</i> СЛЕ	1/4″ SAE	45° female	1	AB45	
1/4″ SAE		90° female	1	AB90	
			3	AB903	
	1/8″	FPT Adapter	1	ABG18	
5/16″ SAE	5/16″ SAE		1	AB410	
	3/10 SAE		3	AB4103	
		90° female	1	AB41090A	
	1/4″ SAE	Straight	1	AB410A	
1/2"ACME	1/2″ACME	Straight	1	AB12	



ABG18

AB41090A



AB45

AB12

AB410A



AB90/ AB903



AB410/ AB4103

COMPACT BALL VALVES					
Female	Male	Other	Qty / Pk	ITEM	
1/8″ MPT	5/16″	MPT	1	BV41018	
3/8″ SAE	3/8″ SAE	Straight	1	BV38	
3/0 3AE	1/4″ SAE	Stratyfit	1	BVAD38	
		Straight	1	BV	
		Stratyfit	3	BV3	
1/4″ SAE	1/4″ SAE	45° female	1	BV45	
1/4 JAE	1/4 SAE	45° lemale	3	BV453	
		90° female	1	BV90	
			3	BV903	
1/2″ ACME	1/2″ ACME		1	BV12	
I/2 NOME	1/4″ SAE			BVAD24	
	5/16″	Straight	1	BV410	
5/16″	1/4″ SAE	for R-410A systems w/neoprene gaskets	1	BV410A	
		for R-410A Systems w/Teflon [®] gaskets	1	BV410AJ	
		90° female	1	BV41090A	
-	1/4″ SAE x 1/4″ SAE	Straight	1	BVM	
			3	BVM3	
Replacement Ball Valve Handle w/Yellow, Blue, Red inserts (1/each) 3 BVXH					



BV/BV3

BV410

BVM



BV45/BV453



BV90/BV903



BV41090A



BV38

Fittings





BV12

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TUBING TOOLS FOR CUTTING, FORMING and BENDING



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BTC200 BLACKMAX[®] MINI TUBE CUTTER

- Cutting Range: 1/8" 7/8" (3-22 mm) O.D.
- Quick release pin for fast replacement of cutting wheels
- Chromed, hardened cutting wheel
- Patented Set-N-Cut[™] spring-loaded center groove rollers for fast, automatic cuts
- Provides a smooth cut, even for slightly deformed tube
- Soft/Hard cutting settings
- Durable aluminum and rubber knob
- **BTCXC1** Chrome Plated Cutting Wheel **BTCXCT1** Titanium Coated Cutting Wheel **BTCXP1** Quick Release Pin



-Set N Cut

BTC300 BLACKMAX® TUBE CUTTER

- Cutting Range: 3/16" -1-1/4" (5 32 mm) O.D.
- Two quick-change, chromed, hardened cutting wheels
- Enclosed feed screw eliminates clogging, jamming
- Set-N-Cut[™] spring-loaded cutting wheel for a perfect cut every time

BTCXC1 Chrome Plated Cutting Wheel BTCXCT1 Titanium Coated Cutting Wheel

BTCXP1 Quick Release Pin

BTC200R BLACKMAX[®] MINI RATCHET TUBE CUTTER

- Cutting Range: 1/8" 7/8" (3-22 mm) O.D.
- Excellent for small tube, confined spaces
- Use with or without ratchet handle
- Quick release pin for fast replacement of cutting wheels
- Chromed, hardened cutting wheel
- Patented Set-N-Cut[™] spring-loaded center groove rollers for fast, automatic cuts.
- Provides a smooth cut, even for slightly deformed tube
- Soft/Hard cutting settings
- Durable aluminum and rubber knob

BTCXR Plastic Ratchet

BTCXP1 Quick Release Pin



-Set N Cut

BTC400 BLACKMAX® HEAVY DUTY TUBE CUTTER

- Cutting Range: 1/4" -1-1/4" (6 32 mm) O.D.
- For brass, copper, aluminum, stainless tube and electrical conduit
- Patented Set-N-Cut[™] technology for the perfect cut every time
- Spring-loaded rollers for easy, precision cut
- Heavy duty performance from lightweight aluminum forged body
- Quick change cutting wheel
- Titanium finish cutting wheel included BTCXB Cutting Wheel Bearing

BTCXB Cutting Wheel Bearing BTCXC2 Chrome Plated Cutting Wheel BTCXCT2 Titanium Coated Cutting Wheel BTCXP2 Quick Release Pin

BTC500 BLACKMAX[®] LARGE TUBE CUTTER

- Cutting Range: 3/8" -2-5/8" (10 67 mm) O.D.
- Patented Set-N-Cut[™] Technology for the perfect cut every time
- Two hardened cutting wheels with quick-change pin design
- Enclosed feed screw eliminates clogging and jamming
- Four grooved rollers for precise tube rotation
- · Rapid adjustment with quick-slide feed mechanism
- Durable aluminum/rubber knob

BTCXB Optional Cutting Wheel Bearing BTCXC2 Chrome Plated Cutting Wheel

BTCXC2 Chrome Plated Cutting Wheel **BTCXCT2** Titanium Coated Cutting Wheel **BTCXP3** Quick Release Pin

Set N Cut

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Forward bend configuration

BI ACKMAX®	TUBE BENDERS	
DENORMAN	TODE DENDENO	

ltem		Description			
		BTB300	Tube Bender Set includes 7 benders and all parts listed below:		
		RI	PLACEMENT	PARTS	
		ltem	Tube I.D.	Mandrel Color	
		BTBX14	1/4″ 0.D.	Chrome	
		BTBX516	5/16″ O.D.	Copper	
	Mandrels	BTBX38	3/8″0.D.	Red	
Mano Mano	Man	BTBX12	1/2″0.D.	Yellow-Orange	
Imperial		BTBX58	5/8″0.D.	Blue	
		BTBX34	3/4″0.D.	Green	
		BTBX78	7/8″0.D.	Red-Violet	
	BTBXH		Ratchet Tool		
	BTBXA1		1/4"-3/8" Shoe Arm		
		BTBXA2	1/2"-7/8" Shoe Arm		
		BTBXR1	Reverse Ber	nder Mandrel Arm	
		BTBXR2	Reverse Bender Shoe Arm		

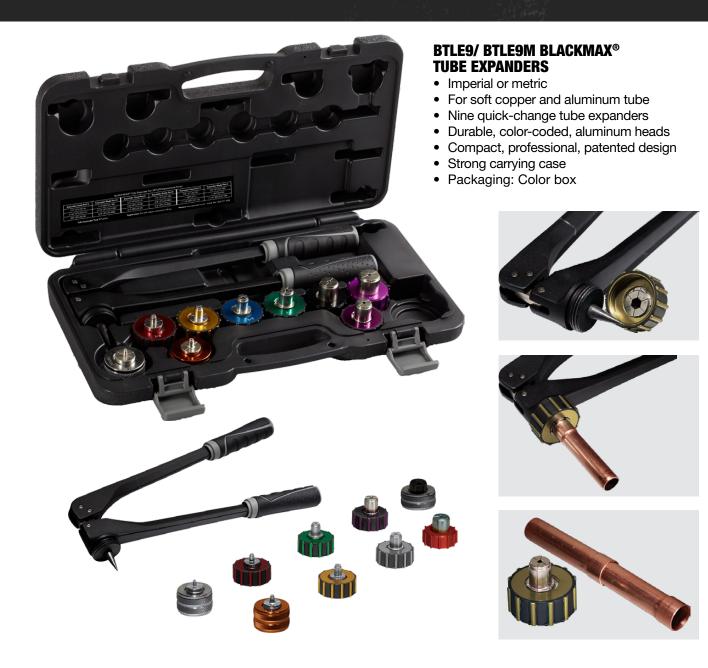
BLACKMAX [®] TUBE BENDERS (METRIC)					
Item Description					
		BTB300M	Tube Bender Set incl listed below: (excludi	udes 7 benders and all parts	
			REPLACEMENT I		
		ltem	Tube I.D.	Mandrel Color	
		BTBX6M	6 mm 0.D.	Chrome	
		BTBX8M	8 mm 0.D.	Copper	
	S	BTBX10M	10 mm 0.D.	Red	
	Mandrels	BTBX12M	12 mm 0.D.	Yellow-Orange	
Metric	Ma	BTBX15M	15 mm 0.D.	Yellow-Green	
Me		BTBX16M	16 mm 0.D. (Optional for BTB300M)	Blue	
		BTBX18M	18 mm 0.D.	Titanium	
		BTBX22M	22 mm 0.D.	Red-Violet	
	BTBXHM		Ratchet Tool, Metric		
	BTBXA1		6-10 mm Shoe Arm		
	BTBXA2		12 - 22 mm Shoe Arm		
	BTBXR1		Reverse Bender Mandrel Arm		
		BTBXR2	Reverse Bender Sho	e Arm	
"0.[)." =	Outside Diame	ter (of tube)		

"0.D." = Outside Diameter (of tube)

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Tubing Tools

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BLACKMAX® TUBE EXPANDERS (IMPERIAL)				BLACKMAX [®] TUBE EXPANDERS (METRIC)				(RIC)
	Description		Item		Description			ltem
Tube E	xpander Set inclu	ides 9 heads	BTLE9		Tube	Expander Set inclu	udes 9 heads	BTLE9M
Tube E	Expander (Replac	ement Tool)	BTLEXH		Tube Expander (Replacement Tool)			BTLEXH
0:	Replaceme	nt Heads	Blades (6)		0:	Replacem	ent Heads	Blades (6)
Size	Color	Item	Item	Size		Color	Item	ltem
1/4″	Chrome	BTLEX14	BTLEX14B		6 mm	Chrome	BTLEX6M	BTLEX6MB
5/16″	Copper	BTLEX516	BTLEX516B	Metric	8 mm	Copper	BTLEX8M	BTLEX8MB
3/8″	Red	BTLEX38	BTLEX38B	Me	10 mm	Red	BTLEX10M	BTLEX10MB
1/2″	Yellow-Orange	BTLEX12	BTLEX12B		12 mm	Yellow-Orange	BTLEX12M	BTLEX12MB
5/8″	Blue	BTLEX58	BTLEX58B		15 mm	Yellow-Green	BTLEX15M	BTLEX15MB
3/4″	Green	BTLEX34	BTLEX34B		18 mm	Titanium	BTLEX18M	BTLEX18MB
7/8″	Red-Violet	BTLEX78	BTLEX78B		22 mm	Red-Violet	BTLEX22M	BTLEX22MB
1″	Black	BTLEX1	BTLEX1B		28 mm	Red-Orange	BTLEX28M	BTLEX28MB
1-1/8″	Pink	BTLEX118	BTLEX118B		32 mm	Black - Chrome	BTLEX32M	Not Available

Find Quality Products Online at:

Imperial

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BFT850D BLACKMAX[®] DRILL POWERED FLARING TOOL

- Dramatically reduces the amount of time to create a precise flare
- Seven quick change positions for flaring soft copper and aluminum tube
- Aluminum body- 50% lighter than steel designs
- Slide gauge sets tube at exact position
- Eccentric cone forms precise 45° flared ends
- For 3/16", 1/4" 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tube
- Built-in clutch prevents over-compression
- Compact, professional, patented design
- Packaging: Color box





Tubing

Seven quick change positions



Slide gauge for perfect tube alignment before flaring



Eccentric flaring cone for precision flares



Rugged carrying case for all items

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BFT850K BLACKMAX[®] IMPERIAL FLARING TOOL KIT

- BFT850 Flaring Tool
 FTXSG Reversible R410A Flare Size Gauge
- BTLDB3 Deburring Tool
- BTC300 Premium Tube Cutter
- Packaging: Color box

Find Quality Products Online at:

www.GlobalTestSupply.com

Tubing

BLACKMAX® LEVER TUBE BENDERS

- Patented 2-position handle
- · Imperial or metric
- For soft copper, aluminum tube
- Double hinged bending arms for tight quarters
- Two pull points for smooth, easy bends
- Bends from 0° to 180°
- · Packaging: Color box



BTB06 Imperial for 3/8[°] O.D. Tube **BTB10MM** Metric for 10 mm O.D. Tube



BTB10 Imperial for 5/8[°] O.D. Tube **BTB15MM** Metric for 15 mm O.D. Tube



BTB12 Imperial for 3/4["] O.D. Tube **BTB16MM** Metric for 16 mm O.D. Tube



BTB08 Imperial for 1/2["] O.D. Tube **BTB12MM** Metric for 12 mm O.D. Tube



BTB14 Imperial for 7/8" O.D. Tube **BTB18MM** Metric for 18 mm O.D. Tube



BTLDB3 BLACKMAX® DEBURRING TOOL Thick aluminum construction. For soft copper and aluminum tube. Includes (2) spare blades in handle.

TLDB2X Replacement Blade

TLDB2 POCKET DEBURRING TOOL Remove burrs and surface defects from inner/ outer straight and hole edges. **TLDB2X** Replacement Blade



FTXSG R410A FLARE SIZE GAUGE

6.4 mm, 1/4" 9.5 mm, 3/8" 12.7 mm, 1/2" 15.9 mm, 5/8" 19.1 mm, 3/4"



TLRM REAMING AND DEBURRING TOOL

- Constructed of rugged die cast metal for long life
- Removes burrs from both inside and outside edges of tube
- Ergonomically shaped to fit comfortably in your hand



TLDB POCKET DEBURRING TOOL (WITH BLADE STORAGE)

- For soft copper and aluminum tubing
- Remove burrs and surface defects from inner/outer straight and hole edges

TLDBX Replacement blade

Find Quality Products Online at:

www.GlobalTestSupply.com

PRO-SET[®] HEAVY DUTY TITANIUM TUBE CUTTERS

- All cutter wheels are precision machined from high grade chromium steel and plated with titanium nitride to extend life—up to 5 times longer!
- Precision machined rollers feature cut-off groove to reduce tube loss in damaged flare removal
- Durable metal handle with industrial grade rubber boot provides comfortable grip
- Enclosed hardened steel, thrust bearing feed mechanism for smooth cutting action and trouble free operation
- Packaging: Clamshell





TCT206 PRO-SET® HEAVY DUTY TITANIUM SLIDING TUBE CUTTER

Cutting Range: 1/4" to 2-5/8" (6 to 68 mm) **TCXT206C** (1) Titanium Nitride Cutting Wheel & (1) Screw **TCXT206R** (1) Reamer blade

TCT274 PRO-SET® TITANIUM TUBE CUTTER

Cutting Range: 1/8" to 1-3/8" (3 to 35 mm) TCX4CTS Titanium Cutting Wheel and Screw TCXT274C (1) Titanium Nitride Cutting Wheel & (1) Screw Assembly TCXT274RB (1) Reamer blade



TCT174 PRO-SET® MINI TITANIUM TUBE CUTTER

Cutting Range: 1/8" to 1-1/8", (3 to 30 mm) **TCXT174C** (1) Titanium Nitride Cutting Wheel & (1) Screw



TCT127 PRO-SET[®] MINI TITANIUM TUBE CUTTER

Cutting Range: 1/8" to 5/8", (3 to 16 mm) TCXT127C (1) Titanium Nitride Cutting Wheel & (1) Screw



TCT312 PRO-SET® HEAVY DUTY TITANIUM TUBE CUTTER

Cutting Range: 1/8" to 1-3/4", (3 to 45 mm) **TCX4CTS** Titanium Cutting Wheel and Screw **TCXT312C** (1) Titanium Nitride Cutting Wheel & (1) Screw Assembly



TCPVC PRO-SET® HEAVY DUTY TITANIUM PVC TUBE CUTTER

Cutting Range: 1/4" to 2-5/8" (6 to 68 mm)

PRO-SET[®] TUBE CUTTERS

- Easy grip knobs with rubber boot over solid metal core
- Advanced tracking system will not walk while cutting
- Rollers feature flare cut-off groove to reduce tube loss
- Integrated retractable rotary deburring tool
- Durable metal handle with industrial grade rubber boot provides sure comfortable grip
- Produces clean right angle cuts every time
- Precision machined rollers feature cut-off groove to reduce tube loss in damaged flare removal



TC174 PRO-SET® MINI TUBE CUTTER Cutting Range: 3/8″- 1-1/8″ (10 - 29 mm)



TC100 PRO-SET® TIGHT SPACES RATCHETING TUBE CUTTER Cutting Range: 1/4″-7/8″ (6 - 22

mm) TCX100CS Cutting Wheel (1) & Screw (1)

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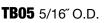
PRO-SET® LEVER TUBE BENDERS

- Constructed of high strength steel for durability and long life •
- Create smooth, tight radius bends up to 180° with minimal effort
- Bends without scoring or flattening of tubing •
- Calibrated to show angle of bend
- Wide hook grips tubing securely •





TB04 1/4" O.D.





TB06 3/8" O.D.



TB08 1/2" O.D.



TB10 3/4" O.D. TB10XH Replacement Hook with Screw



TB10MM 10 mm O.D.



TB12 5/8″ O.D. TB12XH Replacement Hook with Screw



TB14 7/8" O.D.



TB6MM 6 mm O.D.



TB12MM 12 mm O.D.



TB15MM 15 mm O.D.



TB16MM 16 mm O.D.



TB250 PRO-SET[®] UNIVERSAL RATCHET TUBE BENDER SET

- Universal kit bends tube from 1/4" to 7/8" and 6mm to 22mm
- Metal ratcheting system built for long life Seven durable molded plastic mandrels
- Includes TC274 Tube Cutter
- Includes TLRM Reaming and Deburring Tool

REPLACEMENT PARTS

TBXM6	Molded Plastic Mandrel 1/4" (6 mm)
TBXM8	Molded Plastic Mandrel 5/16" (8 mm)
TBXM10	Molded Plastic Mandrel 3/8" (10 mm)
TBXM14	Molded Plastic Mandrel 1/2" (14 mm)
TBXM16	Molded Plastic Mandrel 5/8" (16 mm)
TBXM19	Molded Plastic Mandrel 3/4" (19 mm)
TBXM22	Molded Plastic Mandrel 7/8" (22 mm)
TBXR	Ratchet Mechanism
TBXB1	Small bending bar replacement
TBXB2	Large bending bar replacement

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Tubing

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FT800FN PRO-SET® R-410A **IMPERIAL CONCENTRIC FLARING FLARING TOOL & RATCHET TOOL & RATCHET**

- · Imperial clutch driven flaring tool with ratchet and case for 3/16",1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing
- Unique clutch driven feed screw and eccentrically mounted cone produces uniform, clean flare walls without galling
- Engineered specifically to create stronger flare joints for higher pressure R-410A systems
- Innovative 3/8" square drive incorporated directly in yoke handle for use of ratchet
- Rugged polyethylene storage case included

FTX800B410 R-410A flaring bar FTX800R Ratchet FTX800Y Yoke assembly



FT806M PRO-SET® METRIC

- Metric clutch driven flaring tool with ratchet and case for 6, 8, 10, 12, 15, 16 & 18mm O.D. tubing
- Unique clutch driven feed screw and faceted cone produce uniform, clean flare walls without thin spots or galling
- Innovative 3/8" square drive incorporated directly in yoke handle for use of ratchet
- Rugged polyethylene storage case included.
- FTX800BM Metric flaring bar FTX800R Ratchet FTX800Y Yoke assembly



FT806A PRO-SET® IMPERIAL **ECCENTRIC FLARING TOOL &** RATCHET

- Standard imperial clutch driven flaring tool with ratchet and case for 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing
- Unique clutch driven feed screw and faceted cone produce uniform, clean flare walls without thin spots or galling
- · Provides an exact amount of flaring torque with break away clutch system
- Innovative 3/8^r square drive incorporated directly in yoke handle for use of ratchet
- Rugged polyethylene storage case included.

FTX800BA Imperial flaring bar FTX800R Ratchet FTX800Y Yoke assembly



TECH-SET® 45° FLARING & SWAGING KIT

- FS275 Imperial kit for 1/8" to 3/4"
- FS275M Metric kit for 4 mm to 22 mm
- Rugged forged steel slip-on yoke and hardened flaring bar
- Chrome finished flaring cone forms better flares with less effort
- Positive grip flaring bar eliminates tube movement
- Easy operation with professional results

REPL	ACEMENT	PARTS
	FS275	45° Flaring & Swaging Kit 1/8" - 3/4"
	FSX501	FS275 Long Bar (7/16", 1/4", 1/8", 3/16", 5/16", 3/8")
	FSX502	FS275 Short Bar (3/4", 1/2", 5/8")
rial	FSX503	FS275 5/16" Swaging Adapter
FS275 Imperial	FSX504	FS275 3/16" Swaging Adapter
2751	FSX505	FS275 1/2" Swaging Adapter
FS2	FSX506	FS275 5/8" Swaging Adapter
	FSX508	FS275 3/4" Swaging Adapter
	FSX509	FS275 Yoke Assembly
	FSX513	FS275 Compressor Cone
-S275 Vietric	FS275M	45° Flaring & Swaging Kit, Metric
Nec S	FSX507	FS275M 8, 12, 14, 16, 22 mm Swaging Adapter

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Tools



TC127 TECH-SET[™] MINI TUBE CUTTER

Cutting Range: 1/8" to 5/8" (3 to 16 mm)

- Ideal for cutting pipe in limited access areas
- Precision machined chromium steel cutting wheels

TCX7C (10) Cutting wheels TCX7S (10) Cutting Wheel Screws TCX7CTS (1) Titanium Cutting Wheel & (1) Screw TCX7CS (1) Cutting Wheel and (1) Screw



TC274 TECH-SET[™] TUBE CUTTER

Cutting Range: 1/8" to 1-1/8" (3 to 29 mm)

- Hardened steel thrust bearing feed mechanisms for smooth operation
- Precision machined chromium steel cutting wheels
- Foldaway hardened steel reamers for deburring

TCX4R (1) Reamer Blade TCX4RS (1) Reamer Blade Screw TCX4C (10) Cutting Wheels TCX4CS (1) Cutting Wheel and Screw TCX4S (10) Cutting Wheels and Screws



TC312 TECH-SET[™] HEAVY **DUTY TUBE CUTTER**

Cutting Range: 1/4" to 1-5/8" (6 to 41 mm)

 Spare cutting wheel located under retractable locking reamer

TCX4R (1) Reamer Blade TCX4RS (1) Reamer Blade Screw TCX4C (10) Cutting Wheels

TCX4CS (1) Cutting Wheel and

Screw

TCX4S (10) Cutting Wheels and Screws



TC206 TECH-SET[™] SLIDING TUBE CUTTER

Cutting Range: 3/8" to 2-5/8" (10 to 67 mm)

· Ratchet feed mechanism speeds up cutting operation

TCX6CTS (1) Titanium Cutting Wheel & (1) Screw



TCSET TECH-SET[™] TUBE CUTTER COMBO PACK

Cutting Range: 1/8" to 1-1/8" (3 to 29 mm) Includes TC127 & TC274







TECH-SET[™] SPRING TYPE TUBE BENDERS

- · For soft copper and aluminum tubing
- Special spring steel with zinc finish
- Hand bend tubing to any shape without collapsing walls
- End bell design for quick removal of tubing

TBS04 1/4" Spring Tube Bender TBS05 5/16" Spring Tube Bender

TBS06 3/8" Spring Tube Bender

TBS08 1/2" Spring Tube Bender TBS10 5/8" Spring Tube Bender

- TBS12 3/4" Spring Tube Bender



TB368 TECH-SET[™] **UNIVERSAL TUBE BENDER**

- Triple head lever type tube bender 1/4", 5/16", 3/8" (6, 8, 10 mm)
- For soft copper, aluminum and thin wall steel tubing

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- Flares from 3/16" to 5/8" (5 to 16 mm)
- Unique faceted flaring cone automatically burnishes flare face during operation
- Produces perfect 45° flares while maintaining thickness at base of flare
- Rugged forged steel slip-on yoke
- Compact design ideal for use in tight quarters
- FTX516 Yoke assembly FTX517 Tube holding assembly FTX518 Flaring cone

FT195 TECH-SET[™] 45° **IMPERIAL FLARING TOOL**

- Flares 7 of the most common sizes of tubing from 3/16" to 5/8" (5 to 16 mm)
- Rugged forged steel slipon voke and hardened flaring bar
- Chrome finished flaring cone forms better flares with less effort
- Positive grip flaring bar eliminates tube movement FTX500 Yoke assembly

FTX501 Flaring bar FTX509 Compressor cone FTX510 Wing nut

FT203 TECH-SET[™] **45° IMPERIAL** FLARING TOOL

- · Flares 4 sizes of tubing - 5/8", 3/4", 7/8" & 1-1/8"
- Rugged forged steel slip-on yoke and hardened flaring bar
- Chrome finished flaring cone forms better flares with less effort
- Positive grip flaring bar eliminates tube movement
- Easy operation with professional results

FT500/FT500M TECH-SET[™] 45° **FLARING/BURNISHING TOOL**

- FT500 Imperial tool for 3/16["] 1/4", 5/16", 3/8", 1/2" & 5/8"
- **FT500M** Metric tool for (6 16 mm)
- Heat treated sliding dies with lever clamping action hold tubing firmly in place
- Rugged forged steel slip-on yoke with large handle for ease of use

FTX500 Yoke assembly

FTX501 Imperial Flaring bar

FTX509 Compressor cone

FTX510 Wing nut

FTX514 FT500 Die Holder Assembly FTX515 FT500M Die Holder Assembly



PRO-SET® TUBE EXPANDER/SWAGING SET

- Create professional grade one seam pipe unions in the field.
- Multi-faceted interchangeable heads ensure equal linear expansion of tubing and uniformed wall thickness.
- · Extended handle length provides added leverage for ease of operation.
- · Re-round deformed tubing and fabricate couplinas.
- · Components are heat treated for durability.
- · Ideal for copper, aluminum and soft steel tubina.
- Includes storage case for long-term protection.

TLE6 IMPERIAL WRENCH SET TLE6M METRIC WRENCH SET

Includes:

- TLE601 Expander Tool TLRM Reaming and Deburring Tool
- TLH06 3/8" Expander Head
- TLH08 1/2" Expander Head
- TLH10 5/8" Expander Head
- TLH12 3/4" Expander Head
- TLH14 7/8" Expander Head
- TLH18 1-1/8" Expander Head
- **Optional:**
- TLH16 1" Expander Head
- TLH22 1-3/8" Expander Head TLH26 1-5/8" Expander Head

Includes: TLE601 Expander Tool

TLRM Reaming and Deburring Tool TLHM10 10 mm Expander Head TLHM12 12 mm Expander Head TLHM15 15 mm Expander Head TLHM18 18 mm Expander Head TLHM22 22 mm Expander Head TLHM28 28 mm Expander Head **Optional:**

TLHM16 16 mm Expander Head TLHM20 20 mm Expander Head TLHM35 35 mm Expander Head TLHM42 42 mm Expander Head

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Tubing

SPECIALTY HAND TOOLS COMPLETE TOOL KITS FOR FAST, CONVENIENT REPAIRS



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TLB410A

R-410A MINI-SPLIT TOOL KITS

Our tool kits contain everything you need to service ductless mini-split and central A/C systems with 1/4" & 5/16" service ports including the following components;





Two Valve Service Manifold (Varies by kit. See chart below) • R-410A/R-22/R404A gauges

- 1/4" SAE fittings
- Triple seal valve system



(1) Imperial and (1) Metric Hex Key Set

- Metric Set: 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm
- Imperial Set: 3/32 ", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"



2

Premium 3-Pack 5' Hoses (Varies by kit. See chart below)

- 1/4" SAE 45° fittings
- 800Psi working pressure4000Psi burst pressure
- 4000PSi bursi pressure



Valve Core Tool

- 5/16^r female fitting allows direct connection to mini-split
- service ports
 5/16" female x 1/4" SAE male



- Flaring Tool
- Clutch driven feed screw
- Eccentrically mounted cone
- Creates perfect, strong flares
- Ratchet drive in yoke
 3/16", 1/4", 1/16", 3/8", 1/2" 1/8",



Brass Adapters and Caps

(10) 1/2"-20 UNF Caps, (2)
 Male: 1/4" SAE 55D; female;
 1/2"-20 UNF SWVL, and (2)
 Male: 1/4" SAE female; 1/2"-20
 UNF



CDS

Torque Wrench Sets;

- Metric Set: 12, 22, 24, 26, 27, 29 mm and 13/16' jaw sizes
- Imperial Set: 5/8", 11/16", 13/16", 15/16", 1-1/16", 1-5/16"



10″ x 10″ Square Tool Organizer

- 24 separate compartments for quick, easy-access
- Molded handle for durability and comfort

	Kit Contonto	0.0	MINI-SPLIT TOOL KITS					
	Kit Contents	Qty	TLB410A	TLB410SAE	TLB410KIT	TLB410AC	TLB410ACE	TLB410M
1	2 Valve Manifold	1	1/4″ SAE 4	ton Pink Body 45° fittings • (MEHP5E)	Pro-Set [®] Premium Piston Series Manifold (#MT2HP)	BlackMax [®] Black & Chrome 1/4" SAE 45° fittings "H5" Gauge (MBH5P5Z)	BlackMax [®] Black & Chrome 1/4″ SAE 45° fittings "H5" Gauge (MBH5P5EZ)	No Manifold
2	Hoses	1	Pro-Set [®] Premium (3) 5' red/blue/yellow ball valve hoses			Pro-Set [®] Premium (3) 5' Black & Chrome hoses	Pro-Set [®] Premium (3) 5' Black & Chrome ball valve hoses	No Hoses
3	Flaring Tool	1	FT8	00N	BFT850		FT800N	
4	Torque Wrench Set	1	Metric SAE/Imperial Universal Handle with SAE/Imperial Metric TLTWSM TLTWSAE Metric Heads					
5 a	Hex Wrench Set (Metric)	1	TLSWHM					
50	Hex Wrench Set (Imperial)	1	TLSWH					
6	Valve Core Tool	1	TLVC410A					
7	Brass Adapters and Brass Caps	14	Includes; (10) AVC410 1/2 ⁻²⁰ UNF SAE Brass Caps, (2) AD87 Brass Adapter Male: 1/4 SAE 55D; female; 1/2 ⁻²⁰ UNF SWVL w/ Valve Core Tool, and (2) AD87S Brass Adapter (Male: 1/4 SAE; female; 1/2 ⁻²⁰ UNF) w/Valve Core Tool					
8	10″ x 10″ Tool Organizer	1				TLBAG1		

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R-410A MINI-SPLIT PREMIUM TOOL KIT

Tool kit includes:

- Pro-Set[®] Premium Piston Series . Manifold
- 5' Premium Pro-Set[®] Charging • Hoses
- Imperial and Metric Hex Key Sets
- Valve Core Tool
- Brass Adapters and Caps
- Large, 9" x 16" Rubber Bottom Tool . Organizer
- Imperial and Metric Torque Wrench • Set and Instructions
- BlackMax® Tube Cutter 1/8" to • 1-1/4"
- BlackMax[®] Tube Flaring Tool
- BlackMax[®] Deburring Tool with extra blade
- R410A Flare Size Gauge



Pro-Set® Premium Piston Series Manifold #MT2HP

- 2 valve anodized aluminum block body
- 1/4" SAE 45° fittings
- Triple Seal piston valves
- Sure grip rubber over metal valve handles
- 3-1/8" (80 mm) Class 1.0 accuracy gauges
- Protective gauge boots
- Extra access port in center with Schrader valve and hanging hook



5' Premium Charging Hoses #HP5BE-Blue, #HP5RE-Red, #HP5YE- Yellow

- 1/4" hoses with SAE fittings, 45° ball valve on one end

- 400PSI working pressure 400PSI burst pressure Leak-proof 8-sided crimp
- Extra deep knurling •
- Adjustable valve core • depressor
- Blow off grooves preventing spray back

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Specialty

www.GlobalTestSupply.com



Hex Key Sets (1) Imperial #TLSWH 5/64 ″, 3/32 ″, 7/64″, 1/8″, 9/64″, 5/32″, 3/16″, 7/32″, 1/4″

(1) Metric #TLSWHM

1.5, 2, 2.5, 3, 4, 5, 6, 8mm



BlackMax[®] Tube Cutter 1/8" to 1-1/4" #BTC300

- Two quick-change, chromed, hardened cutting wheels
- Enclosed feed screw eliminates . clogging, jamming
- Set-N-Cut[™] spring-loaded cutting wheel for a perfect cut every time



Valve Core Tool #TLVCS410A

Unique configuration of tool enables use of standard 1/4" SAE manifold/hose sets with R-410A systems incorporating 5/16" (1/2"-20UNF) service ports.

- Designed to remove and install valve core without losing system charge
- . Increases evacuation and charging speed by creating unrestricted access



BlackMax[®] Tube Flaring Tool #BFT850

- Aluminum body is 50% lighter than steel designs
- Internal clutch indicates when formed flare is complete
- Eccentric cone forms precise 45° flared ends
- Creates perfect, strong flares For 3/16", 1/4" 5/16", 3/8", 1/2", 5/8", 3/4" O.D. soft copper, aluminum tube



Large, 9" x 16" Rubber Bottom Tool Órganizer #TLBAG2

- Separate compartments for quick, easy-access
- Molded handle for durability and comfort
- Rubber bottom
- Durable fabric and construction .



Torque Wrench Set with (1) Universal Handle #TLTWSAE and (6) Imperial and (6) Metric wrenches (part numbers below) and instructions

Heads					
Metric Imperial					
17mm	#TLXTWM17	5/8″	#TLXTW58		
22mm	#TLXTWM22	11/16″	#TLXTW1116		
24mm	#TLXTWM24	13/16″	#TLXTW1316		
26mm	#TLXTWM26	15/16″	#TLXTW1516		
27mm	#TLXTWM27	1-1/16″	#TLXTW1L116		
29mm	#TLXTWM29	1-5/16″	#TLXTW1L516		



Brass Adapters and Caps

Find Quality Products Online at:

- (10) 1/2"-20 UNF Caps #AVC410
- (2) Male: 1/4" SAE 55D; Female; 1/2"-20 UNF SWVL, **#AD87S** and (2) Male: 1/4" SAE Female; 1/2"-20
- ÙNF #AD87



BlackMax[®] Deburring Tool #BTLDB3 with extra blade inside handle

- Quick-change blade •
- Solid aluminum body



R410A Flare Size Gauge #FTXSG

6.4 mm, 1/4"

12

- 9.5 mm, 3/8" .
- 12.7 mm, 1/2" 15.9 mm, 5/8"
- 19.1 mm, 3/4"
- www.GlobalTestSupply.com

CPS® EXTRA DURABLE TOOL ORGANIZERS

Organize your tools with care with this extra strong, premium built series of tool organizers from CPS.







TLBAG1 10" x 10" Square Tool Organizer

TLBAG2 9" x 16" Rubber Bottom Tool Organizer

TLBAG3 Tool Belt Tool Organizer

PRO-SET[®] ADJUSTABLE HANDLE WRENCHES

- Patented light weight composite handle design
- Wide jaw opening with 45% more torque
- · Precision machined for smooth operation
- Ergonomic, comfortable grip reduces fatigue
- Durable and environment-resistant
- Packed in clear clamshell with printed display card
- One year warranty

PRO-SET[®] SERVICE WRENCHES

- Metal construction
- Embossed fractions and logo
- Polished chrome finish





- Large, straight. Square & hex drive
- 3/16", 1/4" Square Drive
- 1/2", 9/16" Hex Drive
- TLSWLB In Bulk (100 pcs)



Jaw Capacity:

1-1/8" / 29 mm

- **TLSWO**
- Small, offset. Square drive.
- 3/16", 1/4", 5/16", 3/8" Square
- Drive
- Offset ends
- TLSWOB In Bulk (100 pcs) TLSWOA Wrench plus 3/16[°] & 5/16[°] Hex Driver Bit



Size: 10" Jaw Capacity: 1-5/16" / 33 mm



TLSWS

- Small, straight. Square drive
- 3/16", 1/4", 5/16", 3/8" Square Drive

TLSWSB In Bulk (100 pcs) TLSWSA Wrench plus 3/16" & 5/16" Hex Driver Bit

Find Quality Products Online at:

www.GlobalTestSupply.com



BTLDTW BLACKMAX[®] DIGITAL TORQUE WRENCH

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.

The BTLDTW stores 5 factory and 5 user-defined presets, and is able to simultaneously display stored vs. actual torque values. Large display numbers prevent misreading torque data, a common problem when using wrenches without digital displays. View "Peak" and "Track" torque data with audible (tone), visual (LED) and tactile (vibration) "torque alerts" to prevent over-tightening by providing advance warning when approaching or exceeding predefined torque settings.



KEY FEATURES

- Ensures OEM torque setting compliance
- Ideal for HVAC mini-split installations
- Jaw opening: 3/16" to 1-7/16" (5 to 35mm)
- 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



Torque Units (Selectable)N-mKgf.mLbf.ftLbf.inTorque Measurement Range8-851-86-6371-752Display Resolution0.1 N-m0.1 Kgf.m0.1 Lbf.ft1.0 Lbf.inAccuracy $\pm 2\%$ clockwise and counter-clockwise of reading, 10% to 100% of Jull scaleJaw Opening $3/16^{} - 1.7/16^{} (5 - 35 mm)$ Operating Voltage $3/16^{} - 1.7/16^{} (5 - 35 mm)$ Operating Voltage $3V (2 \times AAA batterise, supplied)$ Operating Temperature $32^{\circ}F \sim 104^{\circ}F (0^{\circ}C \sim 40^{\circ}C)$ Storage Temperature $-4^{\circ}F \sim 113^{\circ}F (-20^{\circ}C \sim 45^{\circ}C)$ Wrench (+ Case) Weight 2.79 lb (1.27 kg)Wrench (+ Case) Weight $15.25^{} (0.387 m)$ Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mote)Intermittent ToneRed LED OnWithin $-5N-m$ of programmed torque valueFaster ToneWithin $+2$ N-m of programmed torque valueFaster ToneWithin $+2$ N-m of programmed torque valueFaster ToneWhen >2% over programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value							
Display Resolution0.1 N-m0.1 Kgf.m0.1 Lbf.ft1.0 Lbf.inAccuracy± 2% clockwise and counter-clockwise of reading, 10% to 100% of full scaleJaw Opening3/16~ - 1-7/16~ (5 - 35 mm)Operating Voltage3/16~ - 1-7/16~ (5 - 35 mm)Operating Temperature3V (2 × AAA batteries, supplied)Operating Temperature32°F~104°F (0°C ~ 40°C)Storage Temperature-4°F ~113°F (-20°C ~ 45°C)Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25~ (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin +2 N-m of programmed torque valueFaster ToneWithin +2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Torque Units (Selectable)	N-m	Kgf.m	Lbf.ft	Lbf.in		
Accuracy± 2% clockwise and counter-clockwise of reading, 10% to 100% of full scaleJaw Opening3/16~ - 1-7/16~ (5 - 35 mm)Operating Voltage3V (2 x AAA batteries, supplied)Operating Temperature32°F~104°F (0°C ~ 40°C)Storage Temperature-4°F ~ 113°F (-20°C ~ 45°C)Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25~ (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +-2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Torque Measurement Range	8-85	1-8	6-63	71-752		
Jaw Opening $3/16'' - 1-7/16'' (5 - 35 mm)$ Operating Voltage $3V (2 \times AAA batteries, supplied)$ Operating Temperature $32^{\circ}F \sim 104^{\circ}F (0^{\circ}C \sim 40^{\circ}C)$ Storage Temperature $-4^{\circ}F \sim 113^{\circ}F (-20^{\circ}C \sim 45^{\circ}C)$ Wrench (+ Case) Weight $2.79 \text{ lb} (1.27 \text{ kg})$ Wrench Length $15.25'' (0.387 \text{ m})$ Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Display Resolution	0.1 N-m	0.1 Kgf.m	0.1 Lbf.ft	1.0 Lbf.in		
Operating Voltage3V (2 x AAA batteries, supplied)Operating Temperature32°F~104°F (0°C ~ 40°C)Storage Temperature-4°F ~113°F (-20°C ~ 45°C)Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25″ (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Accuracy	± 2% clockwis	e and counter-clockwise of	f reading, 10% to 100% of	full scale		
Operating Temperature32°F~104°F (0°C ~ 40°C)Storage Temperature-4°F ~113°F (-20°C ~ 45°C)Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25″ (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Jaw Opening		3/16~ – 1-7/16~ ((5 - 35 mm)			
Storage Temperature-4°F ~113°F (-20°C ~ 45°C)Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25″ (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Operating Voltage		3V (2 x AAA batter	ies, supplied)			
Wrench (+ Case) Weight2.79 lb (1.27 kg)Wrench Length15.25" (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Operating Temperature		32°F~104°F (0°	°C ~ 40°C)			
Wrench Length15.25" (0.387 m)Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin +-5N-m of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Storage Temperature	-4°F ~113°F (-20°C ~ 45°C)					
Green LED FlashesWithin 50% to 98% of programmed torque (in Peak or Track mode)Intermittent ToneWithin 50% to 98% of programmed torque valueRed LED OnWithin 2% of programmed torque valueFaster ToneWithin +- 2 N-m of programmed torque valueContinuous Tone + Constant Green LED & Handle VibratesWhen >2% over programmed torque value	Wrench (+ Case) Weight	2.79 lb (1.27 kg)					
Intermittent Tone Within +-5N-m of programmed torque value Red LED On Within 2% of programmed torque value Faster Tone Within +- 2 N-m of programmed torque value Continuous Tone + Constant Green LED & Handle Vibrates When >2% over programmed torque value	Wrench Length	15.25″ (0.387 m)					
Red LED On Within 2% of programmed torque value Faster Tone Within +- 2 N-m of programmed torque value Continuous Tone + Constant Green LED & Handle Vibrates When >2% over programmed torque value	Green LED Flashes	Within 50% to 98% of programmed torque (in Peak or Track mode)					
Faster Tone Within +- 2 N-m of programmed torque value Continuous Tone + Constant Green LED & Handle Vibrates When >2% over programmed torque value	Intermittent Tone	Within +-5N-m of programmed torque value					
Continuous Tone + Constant Green LED & Handle Vibrates When >2% over programmed torque value	Red LED On	Within 2% of programmed torque value					
Green LED & Handle Vibrates When >2% over programmed forque value	Faster Tone	Within +- 2 N-m of programmed torque value					
		When >2% over programmed torque value					
Display Constant Un: Battery life = approx. 120 nours	Display Constant On:	Battery life = approx. 120 hours					
Display & Backlight Constant On: Battery life = approx. 96 hours		Battery life = approx. 96 hours					
Replacement Battery Cap BTLDTWCX	Replacement Battery Cap		BTLDTW	/CX			

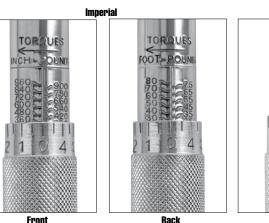
Find Quality Products Online at:

www.GlobalTestSupply.com

PRO-SET[®] TORQUE WRENCHES

Professional interchangeable jaw torque wrench set ensures compliance with OEM torque settings for high pressure systems.

- SAE (Inch) or Metric Sets: Both include 6 sizes of interchangeable ends
- Polished chrome finish
- Provides consistently accurate readings and rugged, trouble-free performance
- Includes instruction sheet and molded storage case





Front







TLTWSAE IMPERIAL WRENCH SET

 Inch Wrench Settings in Inch-Pounds (60-960) or Foot-Pounds (5-80)

Includes: SAE Multi-Head Torque Wrench Set with handle, heads and case (5/8", 11/16", 13/16", 15/16", 1-1/16", 1-5/16")

Replacement Parts:

Specialty

riopiacomone	
TLXTWSAE	Complete Set of (6) SAE Wrench Heads
TLXTWSAEW	SAE Torque Wrench Handle
TLXTW58	5/8" Head
TLXTW1116	11/16" Head
TLXTW1316	13/16" Head
TLXTW1516	15/16" Head
TLXTW1L116	1-1/16" Head
TLXTW1L516	1-5/16" Head

TLTWSM METRIC WRENCH SET

• Metric Wrench Settings in Newton-Meters (10-75)

Includes: Metric Multi-Head Torque Wrench Set with handle, heads and case (17, 22, 24, 26, 27, 29 mm)

Replacement Parts:

TLXTWMComplete Set of (6) Metric Wrench HeadsTLXTWMWMetric Torque Wrench HandleTLXTWM1717mmTLXTWM2222mmTLXTWM2424mmTLXTWM2626mmTLXTWM2727mmTLXTWM2929mm

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www.GlobalTestSupply.com



TLSWH PRO-SET®

- HEX
- Hex ends (Inch)
- Nickel Plated
- 5/64", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"
- Clamshell packaging with display card



TLSWT PRO-S

- Torx ends
- Nickel Plated



TLSWB PRO-SET® HEX BALL POINT

- Ball point ends (Inch)
- Nickel Plated
- 5/64", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"
- Clamshell packaging with display card



TLSWHM PRO-SET®

- Hex ends (Metric)
- Nickel Plated
- 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm
- Clamshell packaging with display card

TLSWHB PRO-SET® COMBO SET

Inch Hex Wrench Combo Set: Includes TLSWH (Inch Hex Key) & TLSWB (Inch Ball Point Key Set)



TLPK PRO-SET® SWAGE PUNCH SET 5 Punches (1/4″, 5/16″, 3/8″, 1/2″, 5/8″)



TLMSP PRO-SET[®] 6-in-1 SWAGING PUNCH

- (3/16", 1/4", 5/16", 3/8", 1/2", 5/8")
- Swages six sizes of tubing
- Chrome plated for strength and durability



TLPORR PRO-SET® PINCH-OFF & RE-ROUND TOOL

Pinch-Off tool & rerounds 1/4", 5/16", 3/8", and 1/2" copper and tubing

Find Quality Products Online at:

www.GlobalTestSupply.com

sales@GlobalTestSupply.com

Specialty Tools







TLFC1 PRO-SET® UNIVERSAL METAL FIN COMB TLFC6 PRO-SET[®] UNIVERSAL 6-SIDED FIN COMB STRAIGHTENING TOOL Repair bent condenser fins

TLFC2 PRO-SET® FIN STRAIGHTENER Large durable, easy grip handle



TSWS TECH-SET[™] SMALL STRAIGHT SERVICE WRENCH

- Square Drive: 3/16", 1/4", 5/16", 3/8"
- Metal handles with frosted finish and blister card packaging



TSWSO TECH-SET[™] SMALL OFFSET SERVICE WRENCH

- Square Drive: 3/16", 1/4", 5/16", 3/8"
- Metal handles with frosted finish and blister card packaging



TSWSH TECH-SET[™] LARGE STRAIGHT SERVICE WRENCH

- Square Drive: 3/16 & 1/4
- Hex Drive: 1/2 & 9/16
- Metal handles with frosted finish and blister card packaging

TECH-SET[™] INSPECTION MIRRORS

For fast, accurate inspection of any hidden area. Universal ball joints hold mirrors firmly at any angle.



TLMIR1 Circular Telescoping Mirror 1-1/4" diameter



TLMIR3 Rectangular Telescoping Mirror 3-1/2" x 2"



Oval Pocket Mirror 1" x 2"

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TLMIR2

Circular

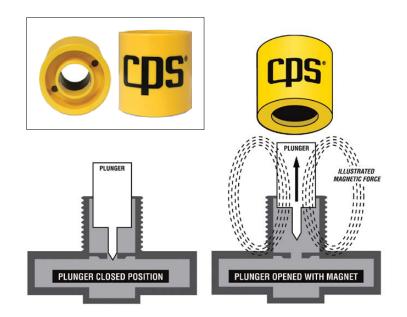
Telescoping Mirror

2-1/4" diameter

TLMKC18 SOLENOID MAGNET

The **TLMKC18** is designed to manually open solenoid valves by magnetically lifting the stem assembly and plunger. Simply slide the **TLMKC18** over the valve's enclosing tube and the industrial grade magnets incorporated inside the rugged ABS plastic housing does the rest. It is an ideal tool for trouble shooting/servicing both direct connected or pilot operated 2-way solenoid, 3-way reclaim or 4-way reversing valves.

 0.75"/18 mm opening fits all common manufactured valves





TLPO PRO-SET® PINCH-OFF PLIERS

- Tool locks onto tubing to prevent loss of refrigerant during service
- Rounded jaws to avoid cutting tubing
- Fast release mechanism
- 1 year warranty



TLPP PRO-SET® TUBE PIERCING PLIERS Tube Piercing Pliers 1/4″ **TLPPX** Replacement Tip



TLDWH WOOD DUCT KNIFE

Used to fabricate fiberglass duct board. Stainless steel 6[°] double edge resharpenable blade facilitates easy piercing for inside cuts. The double edge is also ideal for tapping into and trimming flex duct.



TLDKRH RUBBER DUCT KNIFE

Used to fabricate fiberglass duct board. Stainless steel 6" double edge resharpenable blade facilitates easy piercing for inside cuts. The double edge is also ideal for tapping into and trimming flex duct.

Find Quality Products Online at:

www.GlobalTestSupply.com



TLMAG1 COMPACT MAGNETIZER/DEMAGNETIZER

Use the **TLMAG1** to magnetize tools in order to keep small screws and nuts in position, especially helpful when working in confined spaces, or demagnetize tools when working on or near electronic circuit boards. Simply insert a screwdriver or nut driver into the (+) opening, slowly draw it out and it's magnetized. Leave the magnetizer on the tool for extra strength. To demagnetize, slowly draw the tool through the smallest area of the (-) opening.

- Instantly magnetize or demagnetize steel tools & parts ٠
- Incorporates two C5 industrial strength magnets •
- Impact resistant ABS molded plastic •
- No batteries or electricity required •
- Compact design: 2" x 2" x 1"

BLACKMAX® GEAR & PULLEY REMOVERS

- Quick-change: 2 or 3 reversible jaw
- Internal/external pull
- Forged chrome, vanadium steel
- · Patented design enables fast configuration of two or three puller arms for inward or outward gripping positions.

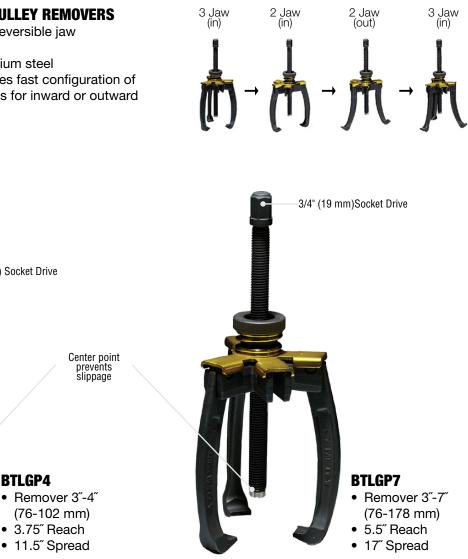
11/16" (18mm) Socket Drive

BTLGP4

(76-102 mm)

• 3.75" Reach

11.5" Spread



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www.GlobalTestSupply.com



BRRN1 PRO-SET® NITROGEN REGULATOR

- UL Listed
- Delivery Pressure 0-400 PSI
- Easy-to-read gauges with protective rubber gauge boots



BRHT2 PRO-SET® POWER TORCH

- Auto-ignite torch
- Adjustable flame control
- For use with propylene (MAPPRO), MAPP and Propane
- CGA600 Inlet Connection
- Reinforced plastic and stainless steel burn tube
- 3 changeable tips with space for 2 cylinders
- Molded case



BRHT1 PRO-SET® HAND TORCH

- Auto-ignite torch
- Adjustable flame control
- For use with propylene (MAPPRO), MAPP and Propane
- CGA600 Inlet Connection
- Cast aluminum and stainless steel burn tube construction
- Flame lock button, precise flame adjustment
- Clamshell packaging

BRXHTST1 Replacement Torch Tip



BRHTS1A PRO-SET® SWIVEL HAND TORCH

- Auto-ignite torch
- Adjustable flame control
- For use with propylene (MAPPRO), MAPP and Propane
- CGA600 Inlet Connection
- Brass regulator & stainless steel burn tube
- Torch tube swivels 360 degrees, operates in any position
- Clamshell packaging

BRXHTST1 Replacement Torch Tip



BRHT5 PRO-SET[®] HAND TORCH WITH 5' HOSE & VALVE

- Auto-ignite torch
- Adjustable flame control
- For use with propylene (MAPPRO), MAPP and Propane
- CGA600 Inlet Connection
- Brass regulator, composite handle & stainless steel burn tube
- New brass regulator with 5 ft hose and valve
- Clamshell packaging



BRHTS1 TECH-SET® SWIVEL HAND TORCH

- Manual Ignition
- Adjustable flame control
- For use with propylene (MAPPRO), MAPP and Propane
- CGA600 Inlet Connection
- Clamshell packaging

BRXHTS1 Replacement Torch Burner Tube Assembly



Find Quality Products Online at:

www.GlobalTestSupply.com



Find Quality Products Online at:

www.GlobalTestSupply.com



REDUCES DAMAGING IN-RUSH CURRENT BY UP TO 50%!

5-2-1[®] COMPRESSOR SAVER[®]

Start-up is the most punishing task for any type of electrical equipment due to the surge of current when power is first applied. A/C compressors can consume up to 45,000 watts!

COMPRESSO

The 5-2-1 Compressor Saver significantly reduces the time the compressor draws high amperage at start-up by combining a powerful multi-layer starting capacitor with a smart switch to safely give the compressor the burst it needs to start up guickly and reliably, while drawing less power. Less power means lower energy bills, too.

- Perfect add-on service for HVAC technicians-high profit, easy and fast to install, and easy to sell.
- Customers experience immediate results.
- Adds years to the life of your compressor and other electrical components associated with your A/C system.
- Reduce damaging in-rush current by up to 50%.





CSRU1 For 1 to 3 Ton units



CSRU2

For 3-1/2 to 5 Ton units



CSRU3 For 4 to 5 Ton units

www.GlobalTestSupply.com **Find Quality Products Online at:**



MAXIMUM SURGE PROTECTION

5-2-1® SURGE PROTECTOR

The 5-2-1 Surge Protection device incorporates the latest in patented surge protection technology providing up to **70% MORE PROTECTION** than similar value priced alternatives*. Plus, no other brand has a separate visible alarm that indicates when the unit has suffered significant damage and needs to be replaced.

Professionally Installed Surge Protection

- Protects against power surges
- Protects against lightning strike surges
- Protects against utility grid "Spikes"
- Protects vital system components

Dual Visual Indicators

Home owners and contractors alike love our dual indicator lights. No more wasting time or money dealing with a single indicator light. Our products come with two lights - a red light to indicate if power is present and a green light to indicate that the product is providing protection. With two lights on, you can rest assured knowing that the system is properly protected.

Features:

- Device built with patented MOV parts
- Green LED indicates surge protection is present
- Red LED indicates that power is present *independent* of the surge protection status
- TUV Certified UL 1449 3rd Edition
- Type 4X enclosure IP67 rated
- Easy installation
- Low cost, high performance

Contractor Benefits:

- Promote additional profits
- Marketing materials available FREE of charge
- Protect your customer's equipment
- Reduce callbacks
- Increase customer referrals

Single Phase Surge Protection

- Circuit Boards
- Air Conditioners
- Furnaces
- Heat Pumps
- Refrigeration Systems





SPD150 Rated up to 100,000 amps



*Based on maximum energy dissipation (Joule) rating

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www.GlobalTestSupply.com

QUICKEST AND EASIEST WAY TO BRING NEW LIFE TO OLD REFRIGERATION SYSTEMS!

5-2-1[®] QUIKSTART[®] COMPRESSOR START KIT

The 5-2-1 QUIKSTART is an easy-to-install 115V combination starter, pre-wired to work with or without a run capacitor. The 5-2-1 QUIKSTART works by administering essential power boosts to the compressor.

The 5-2-1 QUIKSTART is designed to replace all three electrical components on all domestic and commercial refrigerators and freezers using CSIR or CSCR type compressors (relay, overload and start capacitor) and comes prewired, complete installation instructions and extra wiring nuts.

Features:

- 3-in-1 product: replaces relay, start capacitor and overload
- Provides a boost for hard start and unbalanced systems
- Start assist in low voltage conditions
- UL recognized



3-in-1 Combinatio Start device for 1/4 to 1/3 H 115V CSIR and CSCR type compressors.





5-2-1 [®] QUIKSTART [®] COMPRESSOR START KITS						
	ITEM	HP	Maximum Volts			
QURCO410	For Systems With Dup Capacitors	1/4 - 1/3	115V			
QURCO810	For Systems With Run Capacitors	1/12 - 1/5	115V			
QRC0410	For Systems Without Run Capacitors	1/4 - 1/3	115V			
QRC0810		1/12 - 1/5	115V			

Find Quality Products Online at:

www.GlobalTestSupply.com