PROFESSIONAL AIR CONDITIONING & REFRIGERATION PRODUCTS

ELIMINATOR

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CDS SECTO



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LDS

CPS Products is a world leader in the design and manufacture of tools and test equipment used in the Automotive and HVACR industries. Founded in 1975, CPS has grown from a single employee and a single product to over 200 employees and 1200 products. CPS maintains 5 fully staffed subsidiary locations strategically located around the world. These global locations provide the loyal CPS customer base with unsurpassed service of our expansive product line. The success of CPS can be attributed to a basic philosophy of providing our customers with the very best our industry has to offer. This includes the best service, the best products and most importantly the best overall quality.

Supported by state-of-the-art mechanical and electronic manufacturing facilities, CPS is able to actively develop, maintain and continually improve our respected product lines in our wholly owned facilities. This ability is quite unique in today's rapidly changing manufacturing community providing CPS with a decisive edge when developing new innovative products that solve our customer's service needs. When one of our products becomes a trusted tool that a service professional will recommend to their friends, then our job is complete.

After all, we make our living by manufacturing the tools you rely on to make yours!



Worldwide Locations

CDS[®]

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ELECTRONIC REFRIGERANT LEAK DETECTION

THE ELIMINATOR™ LS3000B - Electronic Refrigerant Leak Detector



Fully automatic electronic refrigerant leak detector for all HFC, HCFC, CFC, SF6 gases & blends. Exclusive POWERSHIFT software automatically monitors, controls & adjusts all critical instrument settings to ensure maximum leak search results under any job environment. Two separate visual LED displays enable user to pinpoint the exact location of leak source & the approximate size of that leak.

LS3000B

SENSOR TYPE:	Cold Cathode Diode: Patented design allows fast, accurate detection of refrigerant leaks maintaining maximum sensitivity throughout the life of the sensor. Highly resistant to background contaminants including heavy condensation, oils, leak solutions, brake oils, radiator coolants, washer fluids, etc.	
SENSITIVITY:	Fully automatic selection better than 0.10oz/yr (3g/yr) leak rate of HFC.	
LEAK INDICATION:	Audible Alarms: Two user-selectable audible alarm options (HIGH and LOW intensity)	
TACHOMETER DISPLAY:	Visual tachometer-like bar graph display: Eight high intensity LEDs	
GEARSHIFT VISUAL DISPLAY:	Arranged in a gearshift pattern, 7 LEDs indicate the current sensitivity range of the unit and subsequent leak size	
FLEX PROBE:	14" / 35.6cm long, 0.25"/6.4mm diameter	
OPERATING TEMPERATURE:	0 to 140°F / -18 to 60°C	
POWER:	75 hours battery life using three size "C" alkaline batteries. Auto OFF after 10 minutes of inactivity.	
LOW BATTERY INDICATOR:	R: Right most LED on Tachometer display illuminates to indicate low battery condition.	
WEIGHT:	1lb 2oz / 500g	
WARRANTY:	2 years excluding sensors and batteries	



Automotive Application





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ELECTRONIC REFRIGERANT LEAK DETECTION

LEAK SEEKER® - LS780B / LS790B Electronic Refrigerant Leak Detectors



LS790B

Combines the most advanced microcomputer circuitry with field proven lon-pump[®] sensor technology creating a highly sensitive, accurate electronic refrigerant leak detector. Over 100 computer generated tones and a high intensity bar graph display quickly alerts the user to varying halogen concentrations. Patented automatic calibration design eliminates the need for manual balance or tick rate adjustments while the user selectable 10 sensitivity ranges enables the *LS790B* to detect leaks of all refrigerants.

Specifications for the LS780B and LS790B

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SENSOR TYPE:	Patented Ion-Pump [®] sensor with built-in selective filter housing	
SENSITIVITY:	Better than 0.25oz/yr (7g/yr) leak rate of HFC.	
AUDIBLE ALARMS:	Over 100 computer generated tones varying in intensity with leak size	
VISUAL DISPLAY:	10 high intensity bar graph display (LS790B) / High intensity LED display (LS780B)	
LOCK-OUT MODE:	Unique feature enables quick & easy locating of refrigerant leaks in highly contaminated search zones. In this mode, the unit will automatically & systematically store the recorded concentration levels of background refrigerant while initiating leak search, alarming only in the area of the highest recorded concentration level, the actual leak source. (LS790B only).	
FLEX PROBE:	18" / 45.7cm long metal cable probe	
OPERATING TEMP:	0 to 140F / -18 to 60C	
POWER:	40 hours battery life using 4 "AA" alkaline batteries. Auto OFF after 15 minutes of inactivity.	
LO BATT INDICATOR:	5th LED constantly illuminates dimly indicating low battery condition.	
WEIGHT:	1lb 2oz / 500g	
WARRANTY:	2 years (LS790B). 1 year (LS780B). Excludes sensors and batteries	

LS780B



A rugged, three position slide switch is used to turn the instrument on & select either LO or HI sensitivity ranges. Visual indication of the leak size is provided by a high intensity LED varying in brightness with the concentration of the refrigerant detected.



Spare Parts for LEAK SEEKERS®

1= L\$780A	2 = L\$780B	3=L\$790A	4=LS790B	5 = L\$3000
ITEM	PRODUCT		DESCRIPTION	
LSXB	1,2,3,4	Batt	tery compartment cove	r
LSXBMK	2,4	Maintena	ance Kit: (1)LSXS + (1)	LSXSF
LSXC	1,2,3,4	L	eather carrying case	
LSXC3	5	Storage case LS3000		
LSXE	1,2,3,4	Earphone		
LSXMK	1,3	Maintenance kit • 2 pcs/St. LSXS + 2 pcs/St. LSXVF		cs/St. LSXVF
LSXS3	5	Sensor for LS3000		
LSXS	1,2,3,4	lon-pump sensor		
LSXSF	2,4	Selective filter/housing		
LSXSH	1,3	Aluminum Sensor housing		
LSXVF	1,3	Water vapor filter		

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ELECTRONIC REFRIGERANT LEAK DETECTION

Refrigerant Monitor



Compact, highly reliable, yet economical refrigerant leak monitoring systems. Designed to monitor a single refrigerant in a single zone providing early warning of costly and environmentally damaging refrigerant leakage. Adjustable sensitivity settings between 100 to 1000PPM 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."

efrigerant Type	Replacement Sensor	SENSITIVITY:	
		SENSITIVITY:	100 to 1,000 ppm
R-12	RMX12	ACCURACY:	\pm 3% of the setting or \pm 25 ppm
R-134	RMX12	VISUAL ALARMS:	High intensity LED display
R-22	RMX12	AUDIBLE ALARM:	85 db at 1 foot
R-404A	RMX12	OPERATING TEMPERATURE	-20 to 150 F /-28 to 65 C
R-407	RMX11		Relative Humidity 10 to 95% non-condensing
R-410A	RMX12		
P-502	PMV12	GUNIRUL MUDULE.	32 to 150 F / 0 to 65 C
N-JUZ	HMA12	POWER:	AC or DC control voltages.
R-507	RMX12		
Replacement Sensors		SENSOR FAILURE INDICATOR:	LED constantly illuminates
lacement Sensor f	or Refrigerant Monitor	WEIGHT:	11b 2oz / 500g
lacement Sensor f	or Refrigerant Monitor	WARRANTY:	1 year
	R-134 R-22 R-404A R-407 R-410A R-502 R-507 Replacement Sen acement Sensor f	R-134 RMX12 R-22 RMX12 R-404A RMX12 R-407 RMX11 R-410A RMX12 R-502 RMX12 R-507 RMX12	R-134RMX12R-134RMX12R-22RMX12R-404ARMX12R-407RMX11R-410ARMX12R-502RMX12R-507RMX12Replacement SensorsSENSOR FAILURE INDICATOR:acement Sensor for Refrigerant MonitorWEIGHT:

GAS SEEKER[®] GS30 - Portable Combustible Gas Detector

The GS30 is a low maintenance, easy-to-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. Measuring just over 7" long and 0.72" in diameter its compact tubular shape enables testing in limited access areas and conveniently fits into a serviceman's pocket. Applications include the inspection of furnaces, valves, regulators, pipelines, meters and other devices associated with combustible gases.

Dimensions Weight

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3



WARNING: THE GS30 IS NOT INTRINSICALLY SAFE IN CLASS 1 (EXPLOSIVE) TYPE ATMOSPHERES AND IS NOT SUITABLE FOR THE DETERMINATION OF HUMAN SAFETY OR HABITABILITY CONDITIONS.

	and Naptha.
Detecting Range	0 - 100% LEL referenced to Methane.
Alarm Indication	Both visual and audible (>40db) alarm indicators
Low Level Alarm	Preset at 10% LEL.
High Level Alarm	Preset at 30% LEL
Operating Conditions	0°F to 104°F / -20°C to +40°C at less than 98% RH
	(non-condensing)
Power	Working voltage is 3VDC using two 1.5V AA batteries.
Battery Life/Indicator	5 hrs continuous use. Orange LED constantly
	illuminates when battery is low
Sampling	Natural diffusion

Gases Detected

Carbon Monoxide. Natural Gas. Propane. Ammonia, Methane, Acetone, Hydrogen, Iso-Butane Acetone, Acetylene, Benzene,

Butane, Ethanol, Ethvlene Oxide, Gasoline, Hexane, Industrial Solvents, Paint Thinners,

Natural diffusion	
7.2 x 0.71in / 183 x 18mm	
5.3oz / 150g (including battery)	

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OONLIGHT.

Actual Size

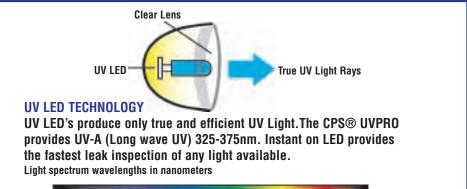
UV REFRIGERANT LEAK DETECTION

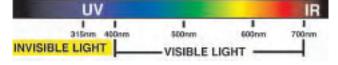
UVPRO UV Flashlight & Enhancing Glasses

UVPRO

Don't forget the "UV" when selecting your next UV light.

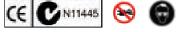
Ultra Violet (UV) dye additives are specially formulated to fluoresce in the presence of UV light rays. Hence the common industry names for the two major components used with this technology, "UV" dye and "UV" lights. Referring to the light spectrum chart below you can see that true "UV" light is invisible to the human eye, with the closest visible light colors being purple and blue respectively. The overall intensity of UV light diminishes as you move from the invisible UV light range to purple, then to blue and so on down the chart. Take care not to confuse a lamp that emits high intensity visible blue light as superior to a lamp tuned more efficiently to emit true UV light.





Why **BLUE** is NOT Necessarily Cool

A correctly tuned Ultra Violet (UV) lamp should predominantly emit invisible UV light waves with only a trace of visible "purple" or "blue" light. The small amount of visible light is required to direct the user's eyes to the leak search area, while the invisible UV light rays actually illuminate the leaking dye. Lamps that emit large amounts of visible blue light have been marketed heavily as being more powerful and more effective at fluorescing leaks, backed by the obvious high output of visible light. Knowing that UV dye additives requires invisible true UV light rays to effectively fluoresce dispels this claim altogether. In fact, special "blue blocking" glasses are required for use with these high output blue lamps in order to remove the nuisance blue light from the vision of the user during the leak search process. Otherwise, the high output of light will mask the actual leak or illuminating dye additive.





UVPRO

The new and improved UVPRO light is the most compact and efficient UV light we have ever designed. The nine high intensity true UV LED's are specifically engineered to maximize the fluorescing capabilities of today's most commonly used dyes while greatly reducing the amount of "nuisance" background blue light emitted. Its rugged anodized aluminum body and o-ring sealed battery compartment allows it to handle harsh field conditions while small enough to conveniently fit in your pocket.

UVPRO - UV LED Light/Glasses Kit

- 9 True UV emitting LED technology
- Rugged anodized aluminum body
- Works with all common dye additives
- Ultra Compact and lightweight
- Instant "ON" with no heat produced

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• Operates on (3) AAA batteries (included)

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UV REFRIGERANT LEAK DETECTION

UV55 LED Refrigerant Leak Detection Kit



UV55 Includes: UVPRO LED flashlight, squeeze gun injector w/ hose, R-134a 90° low coupler, safety glasses, UVS2 dye cartridge and carrying case.



UV55

- UVPRO True UV emitting LED light technology
- Compact & Rugged anodized aluminum body
- Mess-free and easy to use Squeeze Gun[™] injector
- 1 UVS2 universal OEM approved dye cartridge
- Includes 90° low side snap coupler • Operates 8 continuous hours on (3)
- AAA batteries (included)

UV Dichroic Refrigeration Leak Detection Kits

UV150

50W 12VDC dichroic filter lamp with 90° swivel head, rechargeable battery pack, 110V charger, Flow-thru injector, 1 oz universal dye, enhancing glasses and case UV152: same as above w/220V Charger

UV152UN: includes UVSTICK2 injector/dye system instead of flow-thru type UV200: same as listed above except with 8oz bottle of dye instead of 1 oz



UV250

Rechargeable Battery Pack

Replacement Bulb for UVPRO before 2007

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Battery Carrying Case

100V Battery Charger

50W Bulb -UVAL/UVCL

110V Battery Charger

Battery Connectors

220-240v Battery Charger

50W 12VDC dichroic filter lamp with 90° swivel head, rechargeable battery pack, 110V charger, Squeeze Gun™ injector, 6 universal dye cartridges, enhancing glasses and case UV252: same as above w/220V Charger

UVCL



Powerful 50W Bulb Instant On Technology 90°Swivel Head Use with UVXB (not included) Use with UVXB (not included)

Powerful 100W Bulb **Instant On Technology** 45° Handle for Comfortable Grip

UV Dichroic Filter Lamps

ACCES

Ì	SORIES		
	UVXG	Safety/Enhancing Glasses	
٦	UVXLNS	50W Replacement Dichroic Lens	
٦	UVXLNS100	100W Replacement Dichroic Lens	
┥	UVXSGA	Hose Assembly for Squeeze-Gun Injector	
4	UVXSH	Hose Assembly for UVSTICK1	
┥	UVXSHA	Hose Assembly for UVSTICK2 and Lo	
4		Coupler	
4	UVXSTA	3/8"FM X LO side Auto Adapter for	
4		UVSTICK	
1			

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UV REFRIGERANT LEAK DETECTION

Prefilled/Disposable Refrigerant Dye Capsules & Cartridges

• Universal OEM approved dye formula

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- Cleanest, easiest & fastest method of injection
- No refrigerant required to inject dye
- 4 sizes to match capacity of system
 Eliminates air entering system

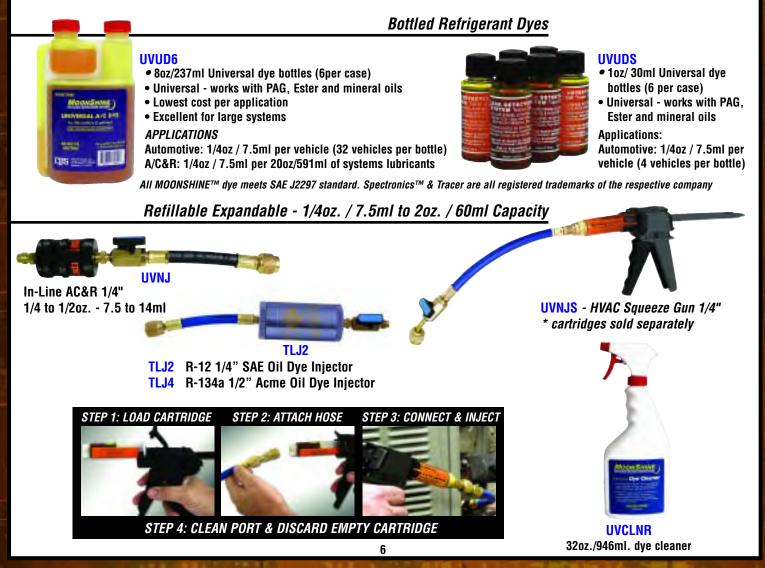


Eliminates ar entering system
 Eliminates over-injection of dye



SYSTEM TYPE	REFRIGERANT CHARGE	REFRIGERANT OIL	DYE CAPSULE STICK qty.6	SQUEEZE CARTRIDGES qty.6
SMALL Ice machines, window A/C units, autos, refrigerators	Up to 2.9 lbs. Up to1.3 kg	Up to 15 fl. oz. Up to .44 liter	UV101	UVS101
MEDIUM Residential Systems	3 to 4.9 lbs. 1.4 to 2.2 kg	16 fl. oz. to 1.6 qt. .45 to 1.8 liters		UVS1
MEDIUM-LARGE Light commercial and large residential systems	5 to 9.9 lbs. 2.3 to 4.5 kg	1.7 qt. to 3.2 qt. 1.9 to 3.7 liters	UV2	UVS2
LARGE Commercial and light industrial, including all split systems	10 to 25 lbs. 4.6 to 11.4 kg	3.3 qt. to 2 gal. 3.8 to 9.1 liters		

In-line capsules are only for use with Spectronics® & Tracer® products' dye injection kits, bleed valves and universal connect sets



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REFRIGERANT CHARGING / RECOVERY SCALES

CC220 COMPUTE-A-CHARGE® High Capacity Charging Scale



High capacity 220lb/100kg **Compute-A-Charge**[®] refrigerant charging/recovery scale, calibrated to strict NIST standards. Fully enclosed and removable metal scale platform enables use of product in or out of the protective case. Large, highly visible 1 1/2" x 2"/37mm x 48mm high resolution LCD readout displays either Imperial or Metric measurements in .25oz / 10g increments. The ergonomic hand held remote incorporates 6ft coil cord, a hanging hook and is backed with a magnet for attaching to metal surfaces. Full mechanical and visual overload protection. Operates 60 continuous hours on two 9V alkaline batteries. Includes automatic off feature.

> CERTIFIED CALIBRATED TO STANDARDS TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (N.I.S.T.)



L^DS[®]

CAPACITY	220LB /100Kg
ACCURACY	.015% of Reading
RESOLUTION	±1/4oz /±10g
PLATFORM SIZE	8 3/4" x 8 3/4"
	223 x 223mm Removable
WEIGHT	5.6 lb/2.55 kg
POWER	(2) 9V battery included. Operates 60 cont. hours
READOUT	Imperial /Metric
OPERATING TEMP	-4°F - 156°F / -10°C to 50°C
PROGRAMMABLE	No











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CDS[°]

REFRIGERANT CHARGING / RECOVERY SCALES



Programmable High Capacity Charging Scale

Programmable high capacity 220lb/100kg Compute-A-Charge® refrigerant charging/recovery scale, calibrated to strict NIST standards. Operating exclusively on two 9V alkaline batteries, the CC800A is the only fully automatic refrigerant scale that does not require line voltage and is R-410A compatible. Using the keypad controls, simply program the CC800A to transfer or recover a pre-set amount of refrigerant, hit "go" and walk away. The scale's advanced microcomputer circuitry will constantly monitor the progress of the job, shutting off the refrigerant flow when the pre-set amount is reached and audibly alert the user. A large, highly visible 1 1/2" x 2" / 37mm x 48mm high resolution LCD readout displays either Imperial or Metric measurements in .25oz / 10g increments. The ergonomic hand held remote incorporates a 6ft coil cord, a hanging hook and is backed with a magnet for attachment to metal surfaces. Full mechanical and visual overload protection. Operates 30 continuous hours on two 9V alkaline batteries. Automatic off feature.



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	CAPACITY:	220LB /100Kg	WEIGHT:	8.5 lb/3.9 kg
	ACCURACY:	.015% of Reading	POWER:	(2) 9V batteries included
J.	RESOLUTION:	±1/4oz /±10g	READOUT:	Imperial /Metric
	PLATFORM SIZE:	8 3/4" x 8 3/4"	OPERATING TEMP:	-4°F - 156°F / -10°C to 50°C
		223 x 223mm Stationary	PROGRAMMABLE:	Yes

Legal For Trade Charging Scale

Certified by NMI to meet or exceed OIML standards. Adjustable feet and bubble level ensure accurate weight measurements. The ergonomic hand held remote incorporates a 6ft coil cord, a hanging hook and is backed with a magnet for attaching to metal surfaces. Full mechanical and visual overload protection. Operates 60 continuous hours on two 9V alkaline batteries.



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	Ce en a de su on
CAPACITY:	50 Kg
ACCURACY:	Class III
RESOLUTION:	20 g
PLATFORM SIZE:	8 3/4" x 8 3/4"
	223 x 223mm Removable
WEIGHT:	5.6 lb/2.55 kg
POWER:	(2) 9V battery included
READOUT:	Metric Only
OPERATING TEMP:	-4°F - 156°F / -10°C to 50°C
PROGRAMMABLE:	No
	E C N11445

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CDS[®] **Pro-Set**[®]

REFRIGERANT CHARGING / **RECOVERY SCALES**

PRO-SET[®] Portable Vacuum/Charging Stations



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CS12DMV4TP6Q

Air Conditioning /

Refrigeration



q

kPa / PSI / °C

Prem. BV Hoses

3-pk of 6ft / 180cm

Prem. Hoses & Cplrs.

(3.5" / 80mm)

R22, R134a, R404A

(2.5" / 68mm)

Manifold (MV5D2)

Vortech[™] 4 valve

Manifold (MV4T)

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Charge Scale

100kg Compute-A-

Charge Scale

Pump (15 microns)

Two Stage 2 CFM

Pump (15 microns)



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ELECTRICAL TEST & MEASURING INSTRUMENTS

Digital Multimeter - CAT III 1000V

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TEMPERATURE MEASUREMENT INSTRUMENTS

CDS' TM350

IP SEEK

TEMP-SEEKER[®] Humidity/Temperature/Wet Bulb Diagnostic Analyzer

The TM350 is a professional grade thermo-psychrometer adaptable to accommodate all your temperature, humidity, dry/wet bulb and dew point measurements. The unit incorporates 4 discrete temperature ports all capable of min/max and memory functions including temperature differential between any 2 of the 4 available ports. Press the SCAN key and the display will alternate between all 4 ports in three second intervals providing continuous monitoring of multiple probe points during critical system diagnosis. A dedicated special purpose port accommodates an optional state of the art silicon humidity transducer probe for fast and accurate measurements during superheat calculations. Designed in a rugged polyethylene case the TM350 is engineered to provide laboratory accuracy in rough field conditions. A generous probe storage area is provided for housing all your job specific probes directly in the unit itself.

Features:

- Ideal for critical superheat calculations
- High accuracy silicon humidity transducer probe humidity probe port
- Large easy-to-read backlight display
- Min / Max and memory functions
- Temperature differential between any 2 ports •
- Direct relative humidity and wet bulb • measurements
- Auto-off after 15 minutes of non-use or continuous ON mode
- Integrated battery eliminator jack •
- Rugged polyethylene carrying case w/ large probe storage area
- Large probe storage area
- Switchable °F/°C
- 1 year warranty

Instrument Specifications:

- Calibrated to NIST traceable standards
- Operating temperature range:
 - 15°F to 120°F (-10°C to +50°C) at 95% RH non condensing
- Accuracy:
 - ±0.4°F (14°F to 158°F) ±0.2°C (10°C to 70°C)

TM350 includes (1) TMX2A, (1) TMX2S, (1) TMX2G TM350A includes (1) TMX2C, (1) TMX2GA, (1) TMX2FP TM350C includes (1) TMX2C, (1) TMX2S, (1) TMX2A

TM350

- Resolution: ±0.1 degree from -40 to 99.9, ±1.0 degree from 100 to 300
- Auto power off after 10 minutes of non-use or selectable continuous ON mode
- 30 hrs battery life on (1) 9V alkaline
- Optional AC adaptor for 100 to 240 VAC mains, 2.1 mm center positive

		Accessory Probes (15ft /	4.5m Leads)
	TMX2A AIR PROBE -40 to 221° F / -40 to 105° C	TMX2P PUNCTURE PROBE -40 to 257° F / -40 to 125° C	TMX2S VELCRO STRAP PIPE PROBE -40 to 257° F / -40 to 125° C
	TMX2C PIPE CLAMP-ON PROBE -40 to 221° F / -40 to 105° C	TMX2RH RH/DP Probe TM250 -40 to 194° F / -40 to 90° C	TMX2FP FLEXIBLE TOUCH PROBE -40 to 221° F / -40 to 105° C
	TMX2G GENERAL PURPOSE PROBE -40 to 257° F / -40 to 125° C	TMX3RH RH/WB/DP Probe TM350 -40 to 194° F / -40 to 90° C RH range: 0 to 100%	Several PURPOSE AIR PROBE -40 to 257° F / -40 to 125° C
	100 C	12	THE REPORT OF THE REPORT OF THE
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TEMPERATURE MEASUREMENT INSTRUMENTS

TEMP-SEEKER® Non-Contact Infrared Thermometer



The TMINI12 infrared thermometer provides instant temperature measurement over a wide range of applications. The unit offers simple one-handed operation, laser point sighting, a backlit display, °C/°F select ability and an automatic power off feature. Use the TMINI12 to quickly measure temperatures of registers, ductwork, furnaces, evaporators, condensers, compressors, relays, manifolds, radiators, exhaust systems, thermostats, bearings and more. Leather carrying case and 9V alkaline battery are included.

TEMPERATURE RANGE:	-76°F to 932°F or -60°C to 500°C
D:S (Distance to Spot Size):	12:1
EMISSIVITY:	Emmisivity pre-set at 0.95 - adjustable
ACCURACY:	±2°C (±4°F) or ±2% of reading
DISPLAY:	Digital Backlit LCD
RESOLUTION:	1°C/F°
BATTERIES/LIFE:	(2) AAA batteries and auto power off



The unit offers simple one-handed operation, laser point sighting, a backlit display, °C/°F select ability and an automatic power off feature.

Digital and Analog Pocket Thermometers

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A step above the standard pocket thermometer the TM50 is packed full of features, including a user selectable temperature alarm, a countdown timer, Min/Max, °F/°C selectable and memory functions. The unit incorporates a highly accurate stainless steel 96mm puncture probe with a 4ft/122cm cord. Temperature range is -58° to 500°F / -50° to 260°C. The TM50 operates on a single AAA alkaline battery with 25 hours of battery life and a low battery indicator.

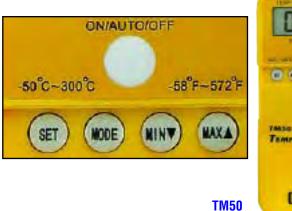
Digital pocket thermometer with stainless steel probe and pocket clip. Range: -58° to 302°F / -50° to 150°C

TMAP

TMDP

Analog pocket thermometer with 1" dial and Stainless steel probe and pocket clip TMAP: Range: 0° to 220°F

TMAPC: Range: -40° to 80°C





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TEMPERATURE MEASUREMENT INSTRUMENTS

K-TYPE TEMPERATURE PROBES



The TMXSK90 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. An angled head for measuring hard to reach surfaces and a 3 foot 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.







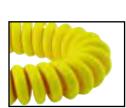
Flat-Spring Ribbons

Angled Head

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 ribbed handle for grip and a 3 foot 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.

TMXSK Max Temp: 752°F (400°C)





Coiled Lead

Bead

14

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1C

Ribbed Handle

Flat-Spring Ribbons

Covered Lead





Exposed Junction

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 meter) probe provides accurate readings in less than 5 seconds over the range of -58°F to 400 °F (-50 °C to 204 °C).

TMXKBEAD Max Temp: 400°F (204°C) Min Temp: -58°F (-50°C)

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CDS®

115

1N11445

RANGE/ACCURACY OF WIND VELOCITY RANGE

0-8800

0-45

0-140

0-88

ACCURACY

±3% or 0.1

±3% or 0.1

±3% or 0.1

±3% or 0.1

000

AM50

IC€ I

UNITS Ft/Min

M/S

km/Hr

knots

26

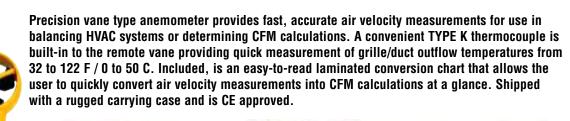
SM150

CDS

N11445

ELECTRONIC GAUGES & METERS

VELOCITOR™ Air Velocity Meter



teres in a	Sec. 7.4							5	FM	CH/	RT	(Gril	1 Siz	e)							19-60	AR.	
F1000F	2.58	144	235	500	870	1.20	1085	11(1)	1342	1008	6674	2010	2345	2610	3015	3.868	2685	8020	4355	4890	8025	#1962)	5
200(18)	2.08	140	275	411	158	195	838	-977	1117	1256	1386	1675	1204	2233	2513	2792	3071	3580	3629	3996	4168	4457	4
FIRST	4.08	281	636	104	1072	1340	1600	1875	2144	2013	2680	3216	1752	4236	4624	\$368	5836	6432	6568	79.04	8045	8576	
243(12)	2.04	. 134	288	402	858	.870	804	938	1372	1208	1340	1608	1875	2144	2412	2060	2948	5246	3454	3752	4322	4286	4
143(1)	1.67	1112	220	305	447	550	670	782		1005	1117	1340	1580	1767	2010	2210	2857	2080	2903	3121	1,000	2413	3
38,53	1.33	389.1	128	- 282	204	348	105	624	713	802	881	1060	1248	1428	1004	1762	1950	2179	2317	2495	2073	2952	2
28.46	1.00	- 907	134	201	208	325	452	40		101	670	004	1934	1072	1201	1.00	1074	1648	1742	1876	2010	2160	-
142(12)	1.37	78.4	187	238	114	102	- 470			706		-941	1087	1254	1411	1568	1728	1681	2034	2195	2342	2506	2
343(10)	0.92	- 05	190	155	268	125	390	485		505	150	180	210	1146	1120	1200	1416	1580	TING	18,00	1663	3280	1
1658	0.78	42.3	105	182	208	261	.514	388	.418	471	128	621	1722	858		1045	1158	1254	1259	1463	1584	1572	1
44000	6.58	30.9	77.7	117	155	194	325	222	0.041	23	315	490	544	122	100	171	804	6935	3013	1888	1180	1244	1 m
1454	0.38	26.1	\$2.3	18.4	108	. 191	157	183	109	238	251	314	365	-418	470	523	515	627	673	730	194	236	
1000412	6.83	25.4	111	167	232	. 711	334	385	- 645	100	356	. ANT	779	198	1201	1112	1223	1338	1045	1951	1848	1788	1
102.10	6.49	48.2	82.5	129	188	231	277	324	320	418	4/2	3.95	- 647	742	602	025	1017	1110	1202	1294	1067	1478	11
\$3004	6.22	10.8	37.5	58.3	75	2.04	145	121	150	104	100	225	. 28.1	304	2.0	325	ata	450	- 488	.628	- 563	-508	
8.812	5.87	-44.8	89.8	135	184	204	260	314		404	445	539	628	718	808	690	28.8	1077	1167	1257	1047	1438	t
1010	0.00	27.5	75	. ±13	128	2100	225	260	100	334	215	450	525	.100	111	110	1415	900	1110	1001	1125	1201	
22.6	8.22	14.7	29.5	44.7	- 68	T	想	185	115	753	347	177	296		258	295	224	194	363	-412	442	-412	
1012	8.82	- 24	- 47	111	124	164	201	- 225	254	- 343	216	40.1	489	538	803	670	737	804	871	858	1005	1012	1
\$310	1.42	28.1	55.3	84.4	111	141	108	191	225	(75)	281	338	384	-480	507	50	618	475	732	768	344	900	
600	100	22.1	44.2	61.3	18.4	- 111	120	_16	171	189	101	205	340	124	211		484	- 831	6.95	-619	MES	12.6	1
8.88	6.25	18.8	34	90.3	- 67	52.8	101	111	134	191	168	201	120	188	302	325	369	402	420	468	500	536	
EB4	8.57	11.4	27.8	342	41.6	- 57	68.3	79.1	84.1	152	114	100	150	112	25	226	261	272	280	318	342	384	
		100	200	380	400	500	-900	790	8.00	190	1000	1200	1400	1080	1804	2800	2190	3400	2640	2004	5800	2280	31

CFM equation: sq.ft. of Grill Size X Maximum Air Velocity(feet per minute) X 2/3 = CFM

Sound Level Meter

Professional grade sound level indicator designed to measure noise levels from 35 to 130dB. The unit incorporates a large LCD, maximum hold function, Over and Under range indicator, peak and average response settings and A-C weighing for checking compliance with standard safety regulations. Applications include the monitoring of HVAC/R compressors, blowers, health and safety requirements, environmental quality issues, offices, factory machinery, airports, auditoriums and studio acoustics. Unit is CE approved and includes carrying case.

Chart of sound levels L and corresponding sound pressure and sound intensity

EXAMPLES	SOUND PRESSURE LEVEL dBSPL	SOUND PRESSURE N/m2 = Pa	SOUND INTENSITY / watts/m2
Jet aircraft, 50 m away	140	200	100
Threshold of pain	130	63.2	10
Threshold of discomfort	120	20	1
Chainsaw, 1m distance	110	6.3	0.1
Disco, 1 m from speaker	100	2	0.01
Diesel truck, 10m away	90	0.63	0.001
Curbside of busy road, 5m	80	0.2	0.0001
Vacuum cleaner, distance 1m	70	0.063	0.00001
Conversational speech, 1m	60	0.02	0.000001
Average home	50	0.0063	0.0000001
Quiet library	40	0.002	0.00000001
Quiet bedroom at night	30	0.00063	0.00000001
Background in TV studio	20	0.0002	0.000000001
Rustling leaf	10	0.000063	0.0000000001
Threshold of hearing	0	0.00002	0.00000000001

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ELECTRONIC GAUGES & METERS

VACROMETER™ Digital Vacuum Gauge

Advanced measurement instrument providing continual digital readout of evacuation process on large 5 digit LCD. Measurement units are user selectable to read in Microns, Torr, in/hg or mBar at the touch of a key. Advanced surface mount technology automatically compensates for ambient changes in the environment ensuring accuracy and consistency in performance. Advanced field-cleanable sensor is able to withstand 400 PSI of positive pressure. Unit operates 30 hours on 9V alkaline battery with low battery indicator and auto off feature. Includes carrying case, hanging hook, AVT45, 9V battery and is CE approved.

VG201 = VG200 + 1/8" NPT Thread Connection



VG200

AVT45

SENSOR:

ТҮРЕ	Self - heated thermistor bridge with integral temperature compensation from 0 to 50 °C (32 to 122 °F).
OPERATING PRESSURE RANGE	Atmospheric pressure to 0 microns Maximum Working pressure: 400 PSIG
BURST PRESSURE	3000 PSIG
OPERATING RANGE	VG200- Atmospheric to 0 microns / VG100A- Atomospheric to 25 Microns
ACCURACY	+/- 10% of Reading.
OPERATING TEMPERATURE RANGE	Compensated (accuracy as stated): 0°C TO 50°C (32°F TO 122°F) Non-compensated (add +/- 0.5% error for
	every °C outside compensated range): 0 to 50°C (-22 to 158°F)
OPERATING & STORAGE HUMIDITY	0-95%, non-condensing.
STORAGE TEMPERATURE	- 40 to 185°F / - 40 to 85°C
POWER SOURCE	One 9 volt alkaline battery (ANSI 1604AC – IEC 6LR61)
BATTERY LIFE	20 hours of continuous use. Instrument shuts itself off after 5 minutes of operation.
WEIGHT	5.5 oz. / 153 g. excluding the battery.
DIMENSIONS	68 mm. diameter by 40 mm. deep by 124 mm. overall height (2.7" dia. by 1.6" deep by 5" overall height).
MECHANICAL CONNECTION	Standard 1/4" female SAE refrigerant hose type with core depressor.
BATTERY INDICATOR	Battery symbol with 3 segment Power Level Bar Graph. (VG200). LED Low Battery Indicator (VG100)





Compact self-contained instrument designed to provide constant indication and monitoring of the evacuation process from start to finish. Nine discrete high intensity LED's are preset to illuminate upon achieving industry standards for proper system evacuations. Advanced surface mount technology automatically compensates for ambient changes in the environment ensuring accuracy and consistency in performance. Advanced field-cleanable sensor is able to withstand 400 PSI of positive pressure. Unit operates 25 hours on 9V alkaline battery with low battery indicator and auto-off feature. Includes carrying case.



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Spare parts & Accessories for VG100A / VG200

ITEM	DESCRIPTION
VGXC	Carrying case VG100A/ VG200
VGXH	Hanging Hook
AVT87	Adapter for VG100A/VG200. 1/4" SAE male to 1/2"-20 male to 1/2" -20 swivel female tee
AVT48	Adapter for VG100A/VG200. 1/4" SAE male to 1/2" ACME male to 1/4" SAE swivel female tee
AVT45	Adapter for VG100A/VG200. 1/4" SAE male to 1/4" SAE male to 1/4" SAE swivel female tee

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CDS[®] **Pro-Set**[®]

VACUUM PUMPS

Dual Voltage Two Stage Vacuum Pumps

GAS BALLAST VALVE



Universal IEC plug All units/dual voltage 115V & 230V

Dual voltage design vacuum pump operates on 115 VAC or 230 VAC (50 or 60Hz). Advanced two-stage design pulls deep vacuum fast to 15 microns.								
Model	VP2D	VP3D	VP6D					
Free Air Displacement	1.9 CFM @ 60HZ 45 I/m @ 50Hz	3.15 CFM @ 60HZ 75 I/m @ 50Hz	6.25 CFM @ 60HZ 148 l/m @ 50Hz					
Horse Power RPM (50/60Hz)	1/4 HP 1440/1720	1/3 HP 1440/1720	1/2 HP 2880/3440					
Ultimate Vacuum	15 microns							
Inlet Ports (male flare)	1/4", 3/8" SAE Male & 1/2" ACME Male							
Oil Capacity	12oz./350 ml	15oz./450ml	15oz./ 450ml					
Dimensions	13" x 5.3" x 10"	13.7" x 5.6" x 10.4"	13.7" x 5.6" x 10.4"					
Shipping Weight	21.66lb/9.8kg	25.42 lb/11.5kg	25.42lb/11.5kg					

For Australia: VP2DA, VP3DA, VP6DA all Single Voltage 240VAC/50Hz.

Model	VP8D	VP10D	VP12D		
Free Air Displacement	7.9 CFM @ 60HZ 186 l/m @ 50Hz	10.0 CFM @ 60HZ 236 l/m @ 50Hz	11.8 CFM @ 60HZ 278 l/m @ 50Hz		
Horse Power RPM (50/60Hz)	2/3 HP 2880/3440	2/3 HP 2880/3440	3/4 HP 2880/3440		
Ultimate Vacuum	15 microns				
Inlet Ports (male flare)	1/4", 3/8" SAE Male & 1/2" SAE Male				
Oil Capacity	13.5 oz./400ml	14 oz./425ml	15 oz./450ml		
Dimensions		15" x 6.2" x 11.2"			
Shipping Weight	32.95lb/14.5kg	34.26lb/15.5kg	36.47lb/16.5kg		

Dual Voltage Single Stage Vacuum Pumps

	Model	VP2S	VP3S	VP6S		
	Free Air Displacement	1.9 CFM @ 60HZ 45 I/m @ 50Hz	3.15 CFM @ 60HZ 75 I/m @ 50Hz	5.85 CFM @ 60HZ 138 l/m @ 50Hz		
	Horse Power RPM (50/60Hz)	1/5 HP 1440/1720	1/4 HP 1440/1720	1/3 HP 1440/1720		
CUS saw	Ultimate Vacuum		100 microns			
	Inlet Ports (male flare)	1/4", 3/8" SAE Male & 1/2" ACME Male				
	Oil Capacity	13.5 oz./400 ml	13 oz./380 ml	17 oz./ 500 ml		
	Dimensions	13" x 5.3" x 10"	13" x 5.3" x 10"	13.7" x 5.6" x 10.4"		
	Shipping Weight	18.11lb/8.2kg	19.44lb/8.8kg	24.75lb/11.2kg		
LARGE OIL SIGHTGLASS	VPXJ220 220 VAC jumper power c for locations where 110 voltage is not available.	ord	VPXOMP Oil mist preventer exhaust port.			

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VACUUM PUMPS

Vacuum Pump Replacement Parts

ITEM	DESCRIPTION
VPXB2	Rubber Base-Medium VP6S/VP6D
VPXB3	Rubber Base- Large VP8D/VP10D/VP12D
VPXC100	Capacitor 100ufd VP6S/VP6DVP8D/VP10D/VP12D
VPXCS2	Centrifugal motor start switch (PCB) VP6S/VP6D
VPXCS3	Centrifugal motor start switch (PCB) VP8D/VP10D/VP12D
VPXEB2	End Bell w/Sightglass (Medium) VP6S/VP6D
VPXEB3	End Bell w/Sightglass (Large) VP8D/VP10D/VP12D
VPXEB02	End Bell O-ring (Medium) VP6S/VP6D
VPXEB03	End Bell O-ring (Large) VP8D/VP10D/VP12D
VPXEH	Plastic Electric Housing- VP6S/VP6DVP8D/VP10D/VP12D
VPXEP1	Electrical Panel VP6S/VP6D
VPXEP2	Electrical Panel VP8D/VP10D/VP12D

ITEM	DESCRIPTION
VPXF15	Fuse T15A VP8D/VP10D/VP12D
VPXFB2	Fan Blade- Medium VP6S/VP6D
VPXFB3	Fan Blade- Large VP8D/VP10D/VP12D
VPXFG2	Fan Grill- Medium VP6S/VP6D
VPXIP3	Port Kit 8-12 CFM VP8D/VP10D/VP12D
VPXODP	Oil Drain Plug w/O-ring VP6S/VP6D/VP8D/VP10D/VP12D
VPXOEP	Exhaust/Oil Fill Port VP6S/VP6D/VP8D/VP10D/VP12D
VPXOL2	Overload B120-110 DRB4 VP6S
VPXOL3	Overload DF690-KB DRB3
VPXH	Handle VP6S/ VP6D VP8D/VP10D/VP12D
VPXIP2	Port Kit 2-6 CFM VP6D

All kits includes: 1/4" SAE, 3/8" SAE & 1/2"-20 UNF Male fittings.

Connects directly to intake port of pump.

Anti-Siphon Valve Kits



Ttt

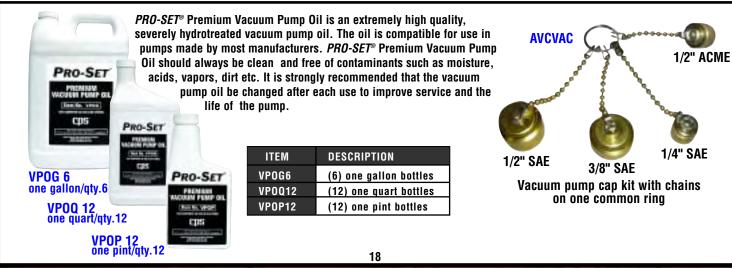
VPAS8

VPAS4 - 1/4" SAE Female Knurl Nut VPAS8 - 3/8" SAE Female Knurl Nut VPASU - 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. Add to any brand of vacuum pump to prevent the cross-contamination of vacuum pump oil and the compressor oil of the system being serviced.

Premium Vacuum Pump Oils

Vacuum Pump Brass Cap Kit



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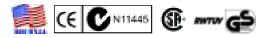
CDS PRO-SET[®] REFRIGERANT RECOVERY MACHINES

PRO-SET® Oil-Less Refrigerant Recovery Machine



CR700

- Fastest overall ARI certified recovery rates in its class
- Powerful 1HP oil-less reciprocating recovery compressor
- Exceptional compressor, condensing & cooling systems allow fast recovery in high temperature environments
- Automatic Low Pressure shut-off feature turns unit off when recovery is completed
- Rugged high density double walled plastic housing with easy view top mounted controls
- R-410A ready with 550psi high pressure shut-off switch
- Ergonomic well balanced design for easy transport including shoulder strap - weighs 36 lbs/16.2kg
- Built-in suction filter located under suction port
- Worldwide patents pending



- Compact modular design with easy access 4 bolt latching system
- Complete compressor rebuilt in minutes
- Externally serviceable valves and gauges
- Integrated component moorings for quiet operation
- Fewer components equals more reliability



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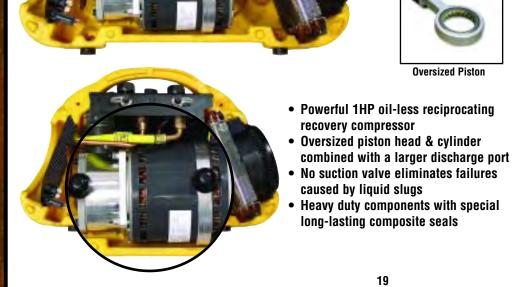
Oversized Piston



Larger discharge port

- Outgoing refrigerant flow
 - (Discharge Valve)
 - Low pressure expansion chamber
 - Incoming refrigerant flow (Suction Port)

Unique suction port design eliminates suction valve & precisely meters incoming refrigerant.



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CDS[®] PRO-SET[®] REFRIGERANT RECOVERY MACHINES

PRO-SET® Oil-Less Refrigerant Recovery Machine

UL CERTIFIED								
meets or ex	ceed EPA Regulations p	er ARI Standard 740-98						
CR700 Series								
ltem	ltem Voltage Gauges							
CR700	115V	psig/kgcm ^²						
CR700E	220-240V	BAR/kPa						
CR700S	230V	psig/kgcm ^²						
CR700J	100 V	MPa						

CRXCR1	Compressor Rebuild Kit for CR600 (all)
CRXCR2	Compressor Rebuild Kit for CR500 (115V)
CRXCR3	Compressor Rebuild Kit for CR500 (230V)
CRXCR8	Compressor Rebuild Kit for CR700 (all)
CRXTOS2	CR Overfill Sensor Cord Kit 115V
CRXTOS2	CR Overfill Sensor Cord Kit 230V
CRXF2	(6) Suction Filters for CR300, 400, 500, 600
CRXF3	(6) Suction Filters for CR700

Replacement Parts

CR710 (CR700 with safety overfill cord)

	CR700	CR700J	CR700E	CR700S			
Compressor Type		1 HP oil-less recip	rocating compressor				
Dimensions	20	cm (8") wide x 37cm (14.	5") long x 30.5cm (12") hig	jh			
Weight		15.3kg	(34lbs.)				
Oprtg. Temp. Range		0°C (32°F) te	o 49°C (120°)				
Power Source	115V 50/60Hz 1 HP	100V 50/60Hz 1 HP	220-240V 50/60 Hz 1 HP	230V 50/60 Hz 1 HP			
Power Consumption		85	Ó W				
Filtration		Cleanable 100-mesh screen	integrated into Suction Port				
Shut-off valves	Both Suction and Discharge piston manifold valves						
Overload Protection	15 amp 8 amp						

Competitive Comparison Recovery Rates

CPS CR700 R410A 2.95 6.97 0.23 (UL) 0VBC SA' Appion G5 R410A 1.58 4.63 0.30 (UL) 0VBC SA' Yellow Jkt 95760 R410A 2.33 6.39 0.20 (UL) 0VBC SA' Promax RG5410EX R410A 2.33 6.39 0.20 (UL) 0VBC SA' Promax RG5410A R410A 1.85 4.91 0.16 (UL) 0VBC SA' Inficon Vortex AC R410A 1.85 4.91 0.16 (UL) 0VBC SA' Stinger 2000-3300 R410A 1.37 6.63 0.10 (AR) RRE-50 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) 0VBC SA' Appion G5 R22 2.82 7.54 0.28 0.19 (UL) 0VBC SA' Yellow Jkt 95760 R22 1.90 6.58 0.18 0.14 (UL) 0VBC SA' Promax RG5410EX R22 1.35 2.50 0.11 0.13 (UL) 0VBC SA' Stinger 2000-3300 R22 1.35			Test	Test Conditions at 75 F Degrees]
Appion G5 R410A 1.58 4.63 0.30 (UL) QVBC SA Yellow Jkt 95760 R410a 0.76 5.54 0.22 (UL) QVBC SA Promax RG5410EX R410A 2.33 6.39 0.20 (UL) QVBC SA Promax RG5410A R410A 1.85 4.91 0.16 (UL) QVBC SA Inficon Vortex AC R410A 1.86 5.15 0.08 (UL) QVBC SA Stinger 2000-3300 R410A 1.66 5.15 0.08 (UL) QVBC SA CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SA Yellow Jkt 95760 R22 2.82 7.54 0.28 0.19 (UL) QVBC SA Promax RG5410EX R22 0.90 6.12 0.15 0.15 (UL) QVBC SA Promax RG5410EX R22 1.81 4.32 0.15 0.15 (UL) QVBC SA Yellow Jkt 95760 R22 1.81 4.32 0.15 0.15 (UL) QVBC SA Promax RG5410EX R22		Refrigerant	Liquid (kg/m)	Push / Pull (kg/m)	Vapor (kg/m)		NRTL Ratings
Yellow Jkt 95760 R410a 0.76 5.54 0.22 (UL) QVBC SA Promax RG5410EX R410A 2.33 6.39 0.20 (UL) QVBC SA Promax RG5410A R410A 1.85 4.91 0.16 (UL) QVBC SA Inficon Vortex AC R410A 1.66 5.15 0.08 (UL) QVBC SA Stinger 2000-3300 R410A 1.37 6.63 0.10 (AR) RRRE-050 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SA Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SA Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SA Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SA Promax RG5410A R22 1.81 4.32 0.15 0.15 (UL) QVBC SA Yellow Jkt 95760 R22 1.80 6.58 0.18 0.14 (UL) QVBC SA Promax RG5410A	CPS CR700	R410A	2.95	6.97	0.23		(UL) QVBC SA12068
Promax R65410EX R410A 2.33 6.39 0.20 (UL) QVBC SAT Promax R65410A R410A 1.85 4.91 0.16 (UL) QVBC SAT Inficon Vortex AC R410A 1.66 5.15 0.08 (UL) QVBC SAT Stinger 2000-3300 R410A 1.37 6.63 0.10 (AR) RRRE-050 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SAT Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax R65410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax R65410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Promax R65410A R22 1.81 4.32 0.15 0.14 (UL) QVBC SAT Promax R65410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT	Appion G5	R410A	1.58	4.63	0.30		(UL) QVBC SA13136
Promax RG5410A R410A 1.85 4.91 0.16 (UL) QVBC SAT Inficon Vortex AC R410A 1.66 5.15 0.08 (UL) QVBC SAT Stinger 2000-3300 R410A 1.37 6.63 0.10 (AR) RRRE-050 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SAT Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax RG5410A R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.85 2.50 0.11 0.13 (UL) QVBC SAT <	Yellow Jkt 95760	R410a	0.76	5.54	0.22		(UL) QVBC SA12038
Inficon Vortex AC R410A 1.66 5.15 0.08 (UL) 0VBC SA Stinger 2000-3300 R410A 1.37 6.63 0.10 (AR) RRRE-050 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) 0VBC SA Appion G5 R22 2.82 7.54 0.28 0.19 (UL) 0VBC SA Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) 0VBC SA Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) 0VBC SA Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) 0VBC SA Inficon Vortex AC R22 1.85 2.50 0.11 0.13 (UL) 0VBC SA Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (UL) 0VBC SA CPS CR700 R134 2.15 6.30 0.15 (UL) 0VBC SA Yellow Jkt 95760 R134 1.97 5.03 0.19 (UL) 0VBC SA Yellow J	Promax RG5410EX	R410A	2.33	6.39	0.20		(UL) QVBC SA12994
Stinger 2000-3300 R410A 1.37 6.63 0.10 (ÅR) RRRE-050 CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SAT Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (AR) RRE-050 CPS CR700 R134 1.97 5.03 0.19 (UL) QVBC SAT <td>Promax RG5410A</td> <td>R410A</td> <td>1.85</td> <td>4.91</td> <td>0.16</td> <td></td> <td>(UL) QVBC SA12994</td>	Promax RG5410A	R410A	1.85	4.91	0.16		(UL) QVBC SA12994
CPS CR700 R22 3.11 7.17 0.22 0.242 (UL) QVBC SAT Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.35 2.50 0.11 0.13 (UL) QVBC SAT Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (UL) QVBC SAT CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SAT Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SAT Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SAT	Inficon Vortex AC	R410A	1.66	5.15	0.08		(UL) QVBC SA12798
Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Stinger 2000-3300 R22 1.60 5.58 0.11 0.13 (UL) QVBC SAT CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SAT Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SAT Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SAT Yellow Jkt 95760 R134 1.09 5.30 0.19 (UL) QVBC SAT Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SAT Promax RG5410A	Stinger 2000-3300	R410A	1.37	6.63	0.10		(AR) RRRE-05040-1Q
Appion G5 R22 2.82 7.54 0.28 0.19 (UL) QVBC SAT Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) QVBC SAT Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Stinger 2000-3300 R22 1.60 5.58 0.11 0.13 (UL) QVBC SAT CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SAT Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SAT Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SAT Yellow Jkt 95760 R134 1.09 5.30 0.19 (UL) QVBC SAT Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SAT Promax RG5410A							
Yellow Jkt 95760 R22 0.90 6.12 0.15 0.15 (UL) 0VBC SAT Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) 0VBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) 0VBC SAT Inficon Vortex AC R22 1.81 4.32 0.15 0.13 (UL) 0VBC SAT Stinger 2000-3300 R22 1.35 2.50 0.11 0.13 (UL) 0VBC SAT CPS CR700 R134 2.15 6.30 0.15 (UL) 0VBC SAT Appion G5 R134 1.97 5.03 0.19 (UL) 0VBC SAT Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) 0VBC SAT Promax RG5410EX R134 1.09 5.30 0.14 (UL) 0VBC SAT Promax RG5410EX R134 1.57 3.63 0.11 (UL) 0VBC SAT	CPS CR700	R22	3.11	7.17	0.22	0.242	(UL) QVBC SA12068
Promax RG5410EX R22 1.90 6.58 0.18 0.14 (UL) QVBC SAT Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SAT Inficon Vortex AC R22 1.35 2.50 0.11 0.13 (UL) QVBC SAT Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (AR) RRE-050 CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SAT Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SAT Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SAT Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SAT Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SAT	Appion G5	R22	2.82	7.54	0.28	0.19	(UL) QVBC SA13136
Promax RG5410A R22 1.81 4.32 0.15 0.13 (UL) QVBC SATE Inficon Vortex AC R22 1.35 2.50 0.11 0.13 (UL) QVBC SATE Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (AR) RRRE-050 CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SATE Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SATE Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SATE Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SATE Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SATE	Yellow Jkt 95760	R22	0.90	6.12	0.15	0.15	(UL) QVBC SA12038
Inficon Vortex AC R22 1.35 2.50 0.11 0.13 (UL) QVBC SATE Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (AR) RRRE-050 CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SATE Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SATE Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SATE Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SATE Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SATE	Promax RG5410EX	R22	1.90	6.58	0.18	0.14	(UL) QVBC SA12994
Stinger 2000-3300 R22 1.60 5.58 0.13 0.13 (ÅR) RRRE-050 CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SA Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SA Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SA Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SA Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SA	Promax RG5410A	R22	1.81	4.32	0.15	0.13	(UL) QVBC SA12994
CPS CR700 R134 2.15 6.30 0.15 (UL) QVBC SA Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SA Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SA Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SA Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SA	Inficon Vortex AC	R22	1.35	2.50	0.11	0.13	(UL) QVBC SA12798
Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SA Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SA Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SA Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SA	Stinger 2000-3300	R22	1.60	5.58	0.13	0.13	(AR) RRRE-05040-1Q
Appion G5 R134 1.97 5.03 0.19 (UL) QVBC SA Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SA Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SA Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SA							
Yellow Jkt 95760 R134 1.13 6.12 0.10 (UL) QVBC SAT Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SAT Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SAT	CPS CR700	R134	2.15	6.30	0.15		(UL) QVBC SA12068
Promax RG5410EX R134 1.09 5.30 0.14 (UL) QVBC SAT Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SAT	Appion G5	R134	1.97	5.03	0.19		(UL) QVBC SA13136
Promax RG5410A R134 1.57 3.63 0.11 (UL) QVBC SA	Yellow Jkt 95760	R134	1.13	6.12	0.10		(UL) QVBC SA12038
	Promax RG5410EX	R134	1.09	5.30	0.14		(UL) QVBC SA12994
Inficon Vortex AC R134 1.13 3.44 0.10 (UL) QVBC SA	Promax RG5410A	R134	1.57	3.63	0.11		(UL) QVBC SA12994
	Inficon Vortex AC	R134	1.13	3.44	0.10		(UL) QVBC SA12798
Stinger 2000-3300 R134 1.21 4.98 0.10 (AR) RRRE-050	Stinger 2000-3300	R134	1.21	4.98	0.10		(AR) RRRE-05040-1Q

Rates on this table @ 60Hz, for 50Hz reduce by 15%

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CDS[®] PRO-SET[®] REFRIGERANT RECOVERY MACHINES

PRO-SET® Oil-Filled Refrigerant Recovery Machine



	CR500	CR500E/CR500S	CR600E	CR600S
Direct Vapor	0.38lbs/min (10.3kg/hr)	0.38lbs/min (10.3kg/hr)	0.38lbs/min (10.3kg/hr)	0.38lbs/min (10.3kg/hr)
Direct Liquid	3.03lbs/min (82.3kg/hr)	3.03lbs/min (82.3kg/hr)	2.60lbs/min (70.6kg/hr)	2.60lbs/min (70.6kg/hr)
Push-Pull Liquid	12.22lbs/min (332kg/hr)	12.22lbs/min (332kg/hr)	11.66lbs/min (317kg/hr)	11.66lbs/min (317kg/hr)
Applications	Residential A/C, Commercial	Residential A/C, Commercial	Residential A/C, Commercial	Residential A/C, Commercial
Compressor	1/3 HP Oil-less	1/3 HP Oil-less	1/2 HP Oil-Less	1/2 HP Oil-Less
Voltage	115VAC 50-60hz	230 VAC 50-60hz	220 VAC 50-60hz	230 VAC 50-60hz
Weight	20lbs/9.0kg	20lbs/9.0kg	29lbs/13.1kg	29lbs/13.1kg
Approvals	*CSA/UL/CE	CE/TUV-GS	CE/TUV-GS	CE

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CDS[®] PRO-SET[®] REFRIGERANT RECOVERY MACHINES



Refrigerant Recycling Module

FEATURES:

- Easy access one bolt cover with 42 cubic inch solid core drier.
- High efficiency coalescent oil separator to remove oil and other contaminates from refrigerant.
- Ball Valves on the hoses for easy hook up and safe disconnection.
- Built in manifold with self clearing valve. Prepares the unit for the next refrigerant.
- Manifold utilizes CPS exclusive Triple Seal piston valves.
- Suction and discharge gauges for monitoring operation.
- 1/4" SAE Male flare oil drain port to remove recovered oil and contaminants.

sure

- Light weight (15lbs) and ergonomically designed handle for portability.
- · Heavy duty powder coated aluminum chassis surrounded by a tough high-density polyethylene case.
- 1/4" SAE Male flare fittings.

ITEM	DESCRIPTION	Water Capacity	DOT Specification	Service Press
134T	Automotive 50lb tank with 1/2" ACME M fitting	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
134TS	Automotive 50lb tank with 1/2" ACME M fitting and overfill sensor	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
390T	90lb tank with 1/4" SAE M fitting on tank. 1/4" SAE FM x 1/2" ACME M adapter fitting included	92 lb / 41.7kg	DOT04BW-400	400 PSIG
390TS	90lb tank with 1/4" SAE M fitting on tank and overfill sensor. 1/4" SAE FM x 1/2" ACME M adapter fitting included	92 lb / 41.7kg	DOT04BW-400	400 PSIG
400T	50lb tank with 1/4" SAE M fitting	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
400TS	50lb tank with 1/4" SAE M fitting and overfill sensor	47.7lb / 21.7kg	DOT04BA-400	400 PSIG



CRX390T 1/4" SAE & 1/2" ACME tank adapter CRX390TS 1/4" SAE with float

ARX134TSAutomotive 50lb tank with 1/2" ACME M fitting and overfill sensor47.7lb / 21.7kgDOT04BA-400400 PSIGCRX390T90lb tank with 1/4" SAE M fitting on tank. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgDOT04BW-400400 PSIGCRX390TS90lb tank with 1/4" SAE M fitting on tank and overfill sensor. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgDOT04BW-400400 PSIG		DESCIII HON	water capacity	DOI Opecification	OCIVICE I IESS
ARX1341Sand overfill sensor47.7lb / 21.7kgD0104BA-400400 PSIGCRX390T90lb tank with 1/4" SAE M fitting on tank. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgD0T04BW-400400 PSIGCRX390TS90lb tank with 1/4" SAE M fitting on tank and overfill sensor. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgD0T04BW-400400 PSIGCRX390TS90lb tank with 1/4" SAE M fitting on tank and overfill sensor. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgD0T04BW-400400 PSIGCRX400T50lb tank with 1/4" SAE M fitting47.7lb / 21.7kgD0T04BA-400400 PSIGCRX400TS50lb tank with 1/4" SAE M fitting and overfill sensor47.7lb / 21.7kgD0T04BA-400400 PSIGCRX430T30lb tank with 1/4" SAE M fitting26.2lb / 11.9kgD0T04BA-400400 PSIG	ARX134T	Automotive 50lb tank with 1/2" ACME M fitting	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
CRX3901ACME M adapter fitting included92 lb / 41.7kgD0104BW-400400 PSIGCRX390TS90lb tank with 1/4" SAE M fitting on tank and overfill sensor. 1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgD0104BW-400400 PSIGCRX400T50lb tank with 1/4" SAE M fitting47.7lb / 21.7kgD0T04BW-400400 PSIGCRX400TS50lb tank with 1/4" SAE M fitting and overfill sensor47.7lb / 21.7kgD0T04BA-400400 PSIGCRX400TS50lb tank with 1/4" SAE M fitting and overfill sensor47.7lb / 21.7kgD0T04BA-400400 PSIGCRX430T30lb tank with 1/4" SAE M fitting26.2lb / 11.9kgD0T04BA-400400 PSIG	ARX134TS	0	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
CRX400T1/4" SAE FM x 1/2" ACME M adapter fitting included92 lb / 41.7kgD0104BW-400400 PSIGCRX400T50lb tank with 1/4" SAE M fitting47.7lb / 21.7kgD0T04BA-400400 PSIGCRX400TS50lb tank with 1/4" SAE M fitting and overfill sensor47.7lb / 21.7kgD0T04BA-400400 PSIGCRX430T30lb tank with 1/4" SAE M fitting26.2lb / 11.9kgD0T04BA-400400 PSIG	CRX390T	5	92 lb / 41.7kg	DOT04BW-400	400 PSIG
CRX400TS50lb tank with 1/4" SAE M fitting and overfill sensor47.7lb / 21.7kgDOT04BA-400400 PSIGCRX430T30lb tank with 1/4" SAE M fitting26.2lb / 11.9kgDOT04BA-400400 PSIG	CRX390TS		92 lb / 41.7kg	DOT04BW-400	400 PSIG
CRX430T 30lb tank with 1/4" SAE M fitting 26.2lb / 11.9kg D0T04BA-400 400 PSIG	CRX400T	50lb tank with 1/4" SAE M fitting	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
	CRX400TS	50lb tank with 1/4" SAE M fitting and overfill sensor	47.7lb / 21.7kg	DOT04BA-400	400 PSIG
CRX430TS 30lb tank with 1/4" SAE M fitting and overfill sensor 26.2lb / 11.9kg D0T04BA-400 400 PSIG	CRX430T	30lb tank with 1/4" SAE M fitting	26.2lb / 11.9kg	DOT04BA-400	400 PSIG
	CRX430TS	30lb tank with 1/4" SAE M fitting and overfill sensor	26.2lb / 11.9kg	DOT04BA-400	400 PSIG



CRX430T 1/4" SAE tank **CRX430TS** 1/4" SAE tank with float



ARX134T 1/2" ACME (AR300/400) **U.S.** Automotive ARX134TS 1/2" ACME with float (AR500)



CRX400T 1/4" SAE tank **CRX400TS** 1/4" SAE tank with float

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VORTECH VALV STEM™ 12 PATENT PENDING

- Advanced VVS diaphragm valve system
- Certified 15 micron vacuum rating
- Red & blue protective gauge boots
- New 45° fittings for easy hose storage (2 valve series only)
- Anodized aircraft aluminum block body
- Precision flutter-free metal cased gauges
- Heavy duty plastic valve handles
- Oversized refrigerant sight glass



- Advanced diaphragm valve design
- Superior refrigerant metering capabilities
- Certified 5 year trouble-free valve life
- Maximum unrestricted refrigerant flow
- Light touch valve operation



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VORTECH SERIES



VORTECH SERIES

	REGION	North America	North America	North America	North America	South America / Asia	Australia / South America	Australia / South America	Australia / South America
tion	Refrigerant Scales	R-12, R22, R502	R22, R134a, R404A	R22, R134a, R404A	R22, R134a, R404A	R12, R134a, R22	R134a, R22, R404A	R22, R134a, R404A	R407C, R22
Gauge Description	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry	3 1/8" / 80mm Oil Filled	2.5" / 68mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry	2.5" / 68mm Dry
ige Di	Pressure Scales	PSI	PSI	PSI	PSI	PSI/ kg/cm	PSI / Kpa	PSI / Kpa	PSI / Kpa
Gal	Temperature Scales	۴	۴	۴	۴	°F / °C	°C	C°	°C
_			•	—	•		—	—	•
One Valve Manifolds	Low Side	MV1CL	MV1DL	N/A	N/A	MV1ZL	MV1TL	MV1PL	MV1YL
One Man	High Side	MV1CH	MV1DH	N/A	N/A	MV1ZH	MV1TH	MV1PH	MV1YH
ls	Manifold & Gauges Only	MV2C	MV2D	MV2D2	MV2D3	MV2Z	MV2T	MV2P	MV2Y
Two Valve Manifolds	3ft / 90cm Hoses	MV2CS3	MV2DP3	MV2D2P3	MV2D3P3	MV2ZP3	MV2TP3	MV2PP3	MV2YP3
lve M	5ft / 150cm Hoses	MV2CS5	MV2DP5	MV2D2P5	MV2D3P5	MV2ZP5	MV2TP5	MV2PP5	MV2YP5
wo Va	5ft / 150cm AB Hoses	MV2CS5A	MV2DP5A	MV2D2P5A	MV2D3P5A	MV2ZP5A	MV2TP5A	MV2PP5A	MV2YP5A
	5ft / 150cm BV Hoses	MV2CS5E	MV2DP5E	MV2D2P5E	MV2D3P5E	MV2ZP5E	MV2TP5E	MV2PP5E	MV2YP5E
Manifolds	Manifold & Gauges	MV4C	MV4D	MV4D2	MV4D3	MV4Z	MV4T	MV4P	MV4Y
) Man	5ft / 150cm Hoses	MV4CS5	MV4DP5	MV4D2P5	MV4D3P5	MV4ZP5	MV4TP5	MV4PP5	MV4YP5
Four Valve	*5ft / 150cm AB Hoses	MV4CS5A	MV4DP5A	MV4D2P5A	MV4D3P5A	MV4ZP5A	MV4TP5A	MV4PP5A	MV4YP5A
Four	*5ft / 150cm BV Hoses	MV4CS5E	MV4DP5E	MV4D2P5E	MV4D3P5E	MV4ZP5E	MV4TP5E	MV4PP5E	MV4YP5E
	* 3/8" Vacuum Ho		Hose Sets.						
l ds se)	Manifold, Gauges & Analog Vacuum Gauge	MV5C	N/A	MV5D2	MV5D3	N/A	MV5T	MV5P	MV5Y
Manifo arrying Ca	Mnfld, Gauges & Digital Vac.Gauge	MV5CD	N/A	MV5D2D	MV5D3D	N/A	MV5TD	MV5PD	MV5YD
Five Valve Manifolds (All Include Carrying Case)	*5ft/150cm BV Hoses w/Analog Vac. Gauge	MV5CP5EC	N/A	MV5D2P5EC	MV5D3P5EC	N/A	MV5TP5EC	MV5PP5EC	MV5YP5EC
Fiv (A	*5ft/150cm BV Hoses w/Digital Vac. Gauge	MV5CP5ECD	N/A	MV5D2P5ECD	MV5D3P5ECD	N/A	MV5TP5ECD	MV5PP5ECD	MV5YP5ECD
	* 3/8" Vacuum Ho	se Included with	Hose Sets.						
ement Jes	Low Side	RGCLB	RGDLB	RGD2LB	*RGD3L	RGZLB	RGTLB	RGPLB	RGYLB
Replacement Gauges	High Side	RGCHB	RGDHB	RGD2HB	*RGD3H	RGZHB	RGTHB	RGPHB	RGYHB
	RGD3L and RGD3	H do not include	protective rubber	boots. 24					

VORTECH™ 1/4" SAE Fittings On Anodized Black Body

All Gauges have Protective Rubber Boots Except for Oil Filled Type

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CDS[®] Pro-Set

VORTECH SERIES

R-410A

R-410A

R-410A

VORTECH™ Anodized Pink Body For R-410A

All Gauges have Protective Rubber Boots Except for Oil Filled Type

- Advanced VVS diaphragm valve system
- Red & blue protective gauge boots
- New 45° fittings for easy hose storage (2 valve series only)
- Anodized aircraft aluminum block body
- Precision flutter-free metal cased gauges
- Heavy duty metal valve handles
- Oversized refrigerant sight glass

- Advanced one-piece diaphragm valve design
- Superior refrigerant metering capabilities
- Vacuum rated to 15 microns or better
- Certified 5 year trouble-free valve life
- Maximum unrestricted refrigerant flow
- Light touch valve operation

			1/4 ma		Aust 1/2-20 UN on manifold	F Fittings		
	REGION	North America	North America	North America	Australia / South America	Australia / South America		
tion	Refrigerant Scales	R410A	R410A, R22, R404A	R410A, R22, R404A ,R134A	R410A, R22, R404A ,R134A	R410A	R410A	R410A
script	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry	3 1/8" / 80mm Oil-Filled	3 1/8" / 80mm Oil-Filled	3 1/8" / 80mm Oil-Filled	2.5" / 68mm Dry
Gauge Description	Pressure Scales	PSI / Kpa	PSI	PSI	PSI	PSI / Kpa	PSI / Kpa	PSI / Kpa
Gal	Temperature Scales	°F/°C	۴	°F	°F	°F / °C	°F / °C	°F / °C
Fittings	Manifold and Hose Fittings	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE	1/2"-20 UNF	1/2"-20 UNF
folds	Manifold & Gauges Only	MV3B	MV3H	MV3H2	MV3H3	MV3R	MV11R	MV11B
Valve Manifolds	5ft / 150cm Hoses	MV3BP5	MV3HP5	MV3H2P5	MV3H3P5	MV3RP5	MV11RJ5	MV11BJ5
Valve	5ft / 150cm AB Hoses	MV3BP5A	MV3HP5A	MV3H2P5A	MV3H3P5A	MV3RP5A	MV11RJ5A	MV11BJ5A
Two	5ft / 150cm BV Hoses	MV3BP5E	MV3HP5E	MV3H2P5E	MV3H3P5E	MV3RP5E	MV11RJ5E	MV11BJ5E
folds	Manifold & Gauges	MV13B	MV13H	MV13H2	MV13H3	MV13R	MV12R	MV12B
Mani	5ft / 150cm Hoses	MV13BP5	MV13HP5	MV13H2P5	MV13H3P5	MV13RP5	MV12RJ5	MV12BJ5
Four Valve Manifolds	5ft / 150cm AB Hoses	MV13BP5A	MV13HP5A	MV13H2P5A	MV13H3P5A	MV13RP5A	MV12RJ5A	MV12BJ5A
Four	5ft / 150cm BV Hoses	MV13BP5E	MV13HP5E	MV13H2P5E	MV13H3P5E	MV13RP5A	MV12RJ5E	MV12BJ5E
ement ges	Low Side	RGBLB	RGHLB	RGH2LB	*RGH3L	*RGRL	*RGRL	RGBLB
Keplacemen Gauges	High Side	RGBHB	RGHHB	RGH2HB	*RGH3H	*RGRH	*RGRH	RGBHB
	* Do not include	protective rub	ber boots.					





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BLACKMAX[™] 2-Valve Piston Valve Manifolds With 1/4" SAE Fittings



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BLACKMAX™ Manifold For R-410A



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- Exclusive TripleSeal[™] valve system
- Valve stems retract fully for maximum flow
- Back seating o-ring seals valve nut when fully open
- No flutter gauges with rugged Metal housings
- Aluminum block
- Additional Schraeder® valve "T" port
- Large easy-to-grip knobs

		Pink Body	Pink Body	Black Body	Pink Body
	REGION	North America	North America	North America	Australia / South America
tion	Refrigerant Scales	R-410A	R410A, R22, R404A	R410A, R22, R404A	R-410A
Description	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry
Gauge Dı	Pressure Scales	PSI	PSI	PSI	PSI / Kpa
Gลเ	Temperature Scales	°F / °C	۴	°F	°F / °C
Sť					

		•		•	
Fittings	Manifold and Hose Fittings	1/4" SAE	1/4" SAE	1/4" SAE	1/2"-20 UNF
Manifolds	Manifold & Gauges Only	MEB	MEH	MBH	МСВ
	5ft / 150cm Hoses	MEBP5	MEHP5	MBHP5	MCBJ5
Two Valve	5ft / 150cm AB Hoses	MEBP5A	MEHP5A	MBHP5A	MCBJ5A
Two	5ft / 150cm BV Hoses	MEBP5E	N/A	MBHP5E	MCBJ5E
placement Gauges	Low Side	RGBL	RGHL	RGHL	RGBL
Replacement Gauges	High Side	RGBH	RGHH	RGHH	RGBH

TRIPLE SEAL" VALVES

- Three 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



R-22 to R-410A Adapters



AD87 1/4 "SAE Male x Female 1/2 "-20 UNF

AD78



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2-Valve Brass Manifolds With 1/4" SAE Fittings

Brass Manifolds

CDS[®]

- Quality forged brass body
- Sliding double o-ring piston valv system
- Full sized porting for maximum flow
- No flutter gauges with rugged Metal housings
- Large easy-to-grip knobs

		REGION	North America	North America	South America /Asia	South America	South America
1.	tion	Refrigerant Scales	R12, R22, R502	R134a, R22, R404A	R12, R134a, R22	R134a, R22, R404A	R407C, R22
-	Description	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry
	Gauge D	Pressure Scales	PSI	PSI	PSI / Kpa	PSI / Kpa	PSI / Kpa
7 🐨	Gal	Temperature Scales	۴	۴	°F / °C	٦°	٦°
			\bullet		\checkmark	\bullet	
	Fittings	Manifold and Hose Fittings	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE
on valve	lve Ids	Manifold & Gauges Only	M6C	M6D	M6Z	M6T	M6Y
imum	Two Valve Manifolds	3ft / 90cm Hoses	M6CS3	M6DP3	M6ZP3	M6TP3	M6YP3
ged	ΔN	5ft / 150cm Hoses	M6CS5	M6DP5	M6ZP5	M6TP5	M6YP5
gou							
	Replacement Gauges	Low Side	RGCL	RGDL	RGZL	RGTL	RGYL
	Replac Gau	High Side	RGCH	RGDH	RGZH	RGTH	RGYH

Manifold Accessories

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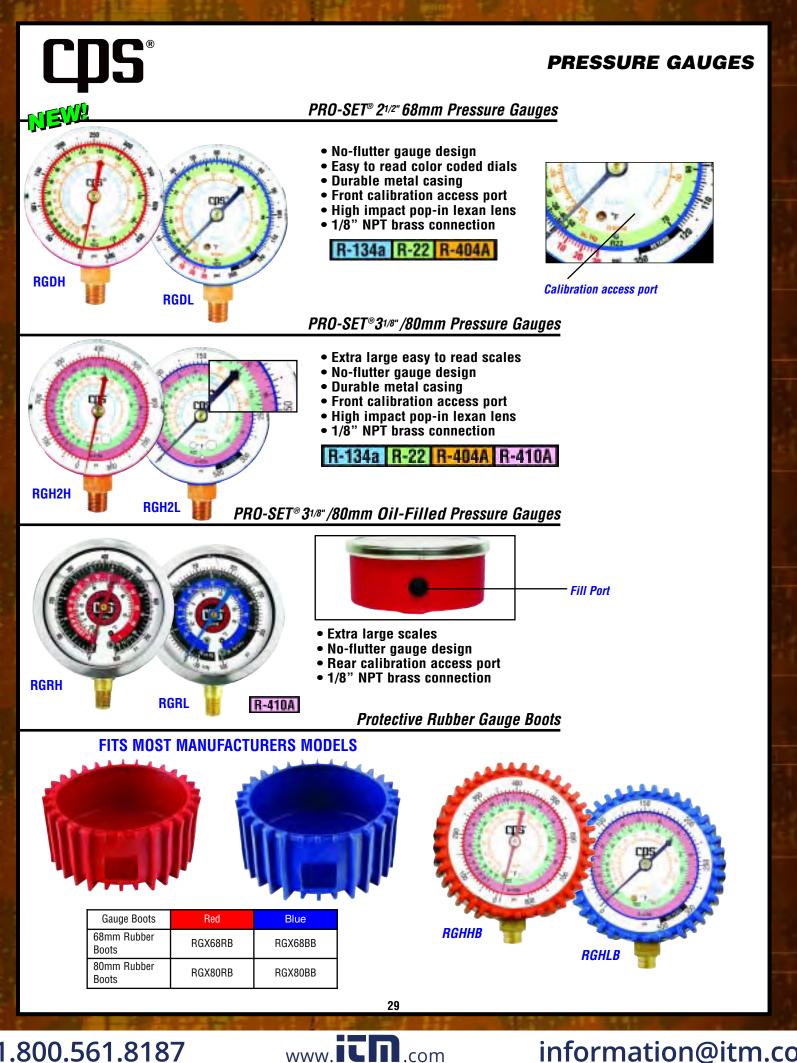
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M2XHA	2-way hose anchor bracket for Vortech & diaphragm
M2XRK	Diaphragm valve repair kit: sevices 2 valves
M4XHA	4-way hose anchor bracket for Vortech & diaphragm
M4XRK	Diaphragm valve repair kit: sevices 4 valves
M5XRK	Diaphragm valve repair kit: sevices 5 valves
MV2XRK	Vortech valve repair kit: services 2 valves
MV4XRK	Vortech valve repair kit: services 4 valves
MV5XRK	Vortech valve repair kit: services 5 valves
MVXK	Replacement valve handle w/ plugs for Vortech manifolds
MXBK	Replacement valve handle for brass manifold
MXC	Plastic carrying case for manifolds
MXK	Replacement valve handle w/ labels for diaphragm manifolds
MXMH	Hanging hook for all manifolds
MXPK	Replacement valve handle w/ labels for BLACKMAX manifolds
MXPV	Complete BLACKMAX piston valve assembly
MXPV0	BLACKMAX piston valve seals repair kit: services 2 valves





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	REGION	North America Australia	North America	North America	North America	South America / Asia	Australia / South America	Australia / South America
ion	Refrigerant Scales	R410A	R12, R22, R502	R22, R134a, R404A	R410A, R22, R404A	R12, R134a, R22	R134a, R22, R404A	R407C, R22
Description	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry	2.5" / 68mm Dry
Gauge D	Pressure Scales	PSI / Kpa	PSI	PSI	PSI	PSI/ kg/cm	PSI / Kpa	PSI / Kpa
Gal	Temperature Scales	°F / °C	۴	۴	۴	°F / °C	°C	°C
		—					—	
: Only	Low Side	RGBL	RGCL	RGDL	RGHL	RGZL	RGTL	RGYL
Gauge	High Side	RGBH	RGCH	RGDH	RGHH	RGZH	RGTH	RGYH
Gauge & Rubber Boot	Low Side	RGBLB	RGCLB	RGDLB	RGHLB	RGZLB	RGTLB	RGYLB
Gau <u>(</u> Rubbe	High Side	RGBHB	RGCHB	RGDHB	RGHHB	RGZHB	RGTHB	RGYHB

PRO-SET[®] 2^{1/2}" /68mm Pressure Gauges

RGX68L : Replacement lens for 2.5" / 68mm gauges listed above RGX68BB : Protective rubber boot for 2.5" / 68mm gauges listed above RGX68RB : Protective rubber boot for 2.5" / 68mm gauges listed above

PRO-SET[®] 3^{1/8"} /80mm Pressure Gauges

	REGION	North America	North America	North America	North America	North America	North America Australia	Australia / South America
tion	Refrigerant Scales	R22, R134a, R404A	R22, R134a, R404A	R12, R22, R502	R410A, R22, R404A, R134A	R410A, R22, R404A, R134A	R410A	R22, R134a, R404A
Description	Gauge Size/ Type	3 1/8" / 80mm Dry	3 1/8" / 80mm Oil Filled	3 1/8" / 80mm Oil Filled	3 1/8" / 80mm Dry	3 1/8" / 80mm <mark>Oil Filled</mark>	3 1/8" / 80mm Oil Filled	3 1/8" / 80mm Dry
Gauge D	Pressure Scales	PSI	PSI	PSI	PSI	PSI	PSI / Kpa	PSI / Kpa
Gaı	Temperature Scales	۴	۴	۴	۴	۴	°F / °C	°C
; Only	Low Side	RGD2L	RGD3L	RGML	RGH2L	RGH3L	RGRL	RGPL
Gauge	High Side	RGD2H	RGD3H	RGMH	RGH2H	RGH3H	RGRH	RGPH
Gauge & ubber Boot	Low Side	RGD2B	N/A	N/A	RGH2LB	N/A	N/A	RGPLB
Gauge & Rubber Boot	High Side	RGD2B	N/A	N/A	RGH2HB	N/A	N/A	RGPHB

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RGX80L : Replacement lens for 3 1/8" / 80mm gauges listed above RGX80BB : Protective rubber boot for 3 1/8" / 80mm gauges listed above RGX80RB : Protective rubber boot for 3 1/8" / 80mm gauges listed above * 80mm Boots Do Not Fit Oil-Filled Gauges

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Brass Gauge Adapter

ABG18

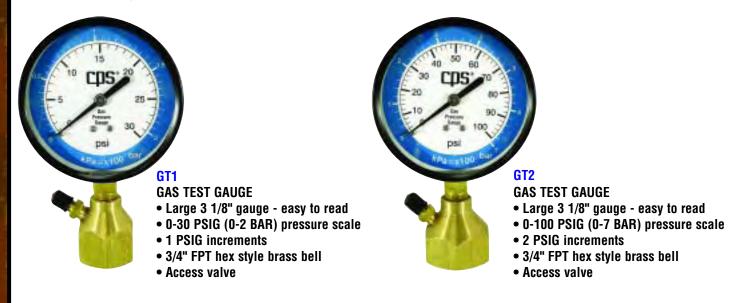
1/4" SAE FM Anti-blowback x 1/8" NPT Female see page 37

CDS[®]

Gas Test Gauge / Fuel Oil Test Kit

Gas Pressure Test Assemblies

The GT1 and GT2 are designed to test the integrity of new installations for pressure leaks. Available with either a 3/4" or 1" FPT brass bell. Simply connect the test assembly, pressurize the system using the supplied access port and monitor the easy-to-read 3 1/2" / 80mm gauge for potential pressure drops that would indicate a leak.



<u>Fuel Oil Test Kit</u>

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.



GT3



Carrying case included with kit

FUEL OIL TEST KIT Includes:

- 2 1/2" gauge, scale 30", 0-150 lbs.
- 2 1/2" gauge, scale 30", 0-300 lbs
- 12" hose 1/4" Fem swivel x 1/4" Fem 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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STANDARD

All-weather flexibility and strength
Extra deep knurling on nuts for easy grip
750 psi working pressure; 3000 psi burst
1/4" SAE fittings with 45° bend on one end
Available with MicroSeal™ or ball valve fittings

Leak-proof eight-sided crimp
 Blow-off grooves channel refrigerant to prevent spray back



Adjustable Valve Core Depressor with a 1/16" larger

R-410A Compatible
800 psi working pressure; 4000 psi burst

- Environment friendly Nylon Permeation Barrier meets SAE J2196
- Compatible with CFC, HCFC and HFC refrigerants & blends
- Available with MicroSeal[™] or ball valve fittings

STANDARD CHARGING HOSES

Adjustable valve core depressor opens all out of tolerance Schraeder® valves.

Extra deep knurling

8 sided crimp

I.D. for maximum refrigerant

Extra long swivel barb assures Maximum holding power

flow



1/4" Standard Hoses

LENGTH	YELLOW	BLUE	RED	3-PACK
3' - 90cm	HS3Y	HS3B	HS3R	HS3
4' - 120cm	HS4Y	HS4B	HS4R	HS4
5' - 150cm	HS5Y	HS5B	HS5R	HS5
6' - 180cm	HS6Y	HS6B	HS6R	HS6
8' - 240cm	HS8Y	HS8B	HS8R	HS8
10' - 300cm	HS10Y	HS10B	HS10R	HS10
	te 1/4" Ceeliste (1	0) UVD Deale	annanta Danvara	(10)

HXG - Replacements 1/4" Gaskets (10) HXD - Replacements Depressors (10)

1/4" Standard Hoses With 45° Ball Valve On End

LENGTH	YELLOW	BLUE	RED	3-PACK
3' - 90cm	HS3YE	HS3BE	HS3RE	HS3E
5' - 150cm	HS5YE	HS5BE	HS5RE	HS5E
6' - 180cm	HS6YE	HS6BE	HS6RE	HS6E
8' - 240cm	HS8YE	HS8BE	HS8RE	HS8E
HVC - Reniscomo	nte 1//" Caekate (1	0) HVD - Bonlae	amonte Donroccor	s (10)



HXG - Replacements 1/4" Gaskets (10) HXD - Replacements Depressors (10)

1/4" Standard Hoses With MICROSEAL™ Anti-Blowback Valve On One End



Super compact design (.75" x 1", 19mm x 25mm) enables access to service ports in tight quarters

LENGTH	YELLOW	BLUE	RED	3-PACK
3' - 90cm	HS3YA	HS3BA	HS3RA	HS3A
5' - 150cm	HS5YA	HS5BA	HS5RA	HS5A
6' - 180cm	HS6YA	HS6BA	HS6RA	HS6A
8' - 240cm	HS8YA	HS8BA	HS8RA	HS8A
				(40)

HXG - Replacements 1/4" Gaskets (10) HXD - Replacements Depressors (10)

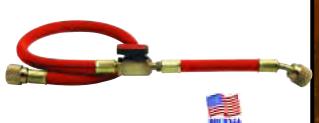
1/4" Standard In-Line Ball Valve Hoses

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LENGTH	YELLOW	BLUE	RED	3-PACK
3' - 90cm	H\$3YL	HS3BL	HS3RL	HS3L
5' - 150cm	H\$5YL	HS5BL	HS5RL	HS5L
6' - 180cm	HS6YL	HS6BL	HS6RL	HS6L
8' - 240cm	HS8YL	HS8BL	HS8RL	HS8L
	sta d (dll Oselvata (d		amanta Danaaaa	(40)

HXG - Replacements 1/4" Gaskets (10) HXD - Replacements Depressors (10)



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PREMIUM CHARGING HOSES

1/4" Premium Hoses For All Refrigerants

HP3B	HP3R	HP3		
HP5B	HP5R	HP5		1 P
HP6B	HP6R	HP6		
	-		HP6B HP6R HP6 HXD - Replacement Depressors (10)	

1/4" Premium Hoses With 45° Ball Valve On End



LENGTH	YELLOW	BLUE	RED	3-PACK		
3' - 90cm	HP3YE	HP3BE	HP3RE	HP3E		
5' - 150cm	HP5YE	HP5BE	HP5RE	HP5E		
6' - 180cm	HP6YE	HP6BE	HP6BE HP6RE HP6E			
HXG - Replaceme	nt 1/4" Gaskets (10) HXD - Repla	cement Depressors	s (10)		

1/4" Premium Hoses With MICROSEAL™ Anti-Blowback Valve On One End

5' - 150cm HP5YA 6' - 180cm HP6YA	HP5BA HP6BA	HP5RA HP6RA	HP5A HP6A
5' - 150cm HP5YA	HP5BA	HP5RA	HP5A
3' - 90cm HP3YA	HP3BA	HP3RA	HP3A
LENGTH YELLOW	BLUE	RED	3-PACK

3-PACK HP3L

HP5L

HP6L

Super compact design (.75" x 1", 19mm x 25mm) enables access to service ports in tight quarters

\frown	
	H

LENGTH	YELLOW	BLUE	RED
3' - 90cm	HP3YL	HP3BL	HP3RL
5' - 150cm	HP5YL	HP5BL	HP5RL

HP6YL

HXG - Replacement 1/4" Gaskets (10) HXD - Replacement Depressors (10)

HP6BL

R-410A Premium Hose w/ Special 1/2"-20 UNF Fittings R-410A

6' - 180cm

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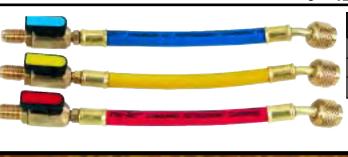
1/4" Premium In-Line Ball Valve Hoses

LENGTH	YELLOW	BLUE	RED	3-PACK
3' - 90cm	HJ3Y	HJ3B	HJ3R	HJ3
5' - 150cm	HJ5Y	HJ5B	HJ5R	HJ5

WITH 45° BALL VALVE FITTING IN ONE END						
3' - 90cm	m HJ3YE HJ3BE HJ3RE HJ3E					
5' - 150cm	HJ5YE	HJ5BE	HJ5RE	HJ5E		

HP6RL

HXG2 - Gaskets (10) (1/2" ACME) & (1/2" - 20 UNF) HXTG2 - Teflon Gaskets (10) (1/2" ACME) & (1/2" - 20 UNF) HXD - Replacement Depressors (10)



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6" - 12" Ball Valve Hose Extensions

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	LENGTH	FITTINGS	YELLOW	BLUE	RED	3 - PACK
7	6"	1/4 SAE	HTYE	HTBE	HTRE	HTE
-	12"	1/4 SAE	HT1YE	HT1BE	HT1RE	HT1E
	6"	1/2-20 UNF	HT410YEJ	HT410BEJ	HT410REJ	HT410EJ

CDS[®] **Pro-Set**[®]

SPECIALTY HOSES, REPLACEMENT GASKETS & DEPRESSORS

Premium Pressure Control Hoses



• Replaces Standard Copper Capillary Tubing

- 1/4" SAE Hex Style Fittings
- Do not exceed 203°F (95°C) for long term use

LENGTH	90° x 90°	Straight x 90°
2' - 60cm	HHC2	HHC2S
3' - 90cm	HHC3	HHC3S
4' - 120cm	HHC4	HHC4S

Premium 3/8" Vacuum/Charging Hoses



• 5/16" I.D. heavy-duty hose

Permeation resistant barrier

• 460 psi working pressure; 2300 psi burst

	HOSE P/N	LENGTH
	WITHOUT E	BALL VALVE
9977.	HV3	3' - 90cm
110	HV5	5' - 150cm
	HV6	6' - 180cm
F N [®]	HV8	8' - 240cm



Replacement Hose Gaskets, Depressors & O-Rings





ITEM	PARTS DESCRIPTION
HXGD2	1/2"-20 UNF &1/2" ACME Hose Gaskets
HX3G	3/16" Hose Gasket (10)
HX14R	14mm Hose Rings (10)
HX38G	3/8" Hose Gaskets (10)
HXG2	1/2" UNF &1/2" ACME Hose Gaskets (10),core depressors (10)
HXD	1/4" SAE Hose Core Depressors (10)

ITEM	PARTS DESCRIPTION
HXGA	Microseal™ Antiblowback gaskets (10)
HXGA410	1/2"-20 UNF Microseal™ Antiblowback gaskets (10)
HXTG	1/4" SAE Teflon hose gasket (10)
HXTG2	1/2"-20 UNF & 1/2" ACME Teflon hose gasket (10)

HXD

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BALL VALVES & ANTI-BLOWBACK VALVES

PRO-SET® Ball Valves

Other

Pro-Set®

• Easy 1/4 turn open/close with rugged plastic composite color-coded handles

• Oversized chrome ball for smooth operation and non-restrictive flow

· Individual valves include all three color-coded handle inserts

Female

Qty / Pk

Item

· Add to existing hose to eliminate refrigerant loss and comply with EPA regulations

Female

MALE x MALE FULL FLOW BALL VALVE

CDS[®]



BVM 1/4" SAE Male, x 1/4" SAE Male



90° SWIVEL ELBOW x MALE FLOW FLOW BALL VALVE



BV90 1/4" SAE Female, x 1/4" SAE Male



BV	1	1/4" SAE	1/4" SAE	Straight
BV3	3	1/4" SAE	1/4" SAE	Straight
BV38	1	3/8" SAE	3/8" SAE	Straight
BV410	1	1/2" - 20 UNF	1/2" - 20 UNF	Straight
BV41018	1		1/2" 20 UNF x 1/8" MNPT	Straight
BV4103	3	1/2" - 20 UNF	1/2" - 20 UNF	Straight
BV41090A	1	1/2" - 20 UNF 90°	1/4" SAE	90° FM
BV410A	1	1/2" - 20 UNF	1/4" SAE	Straight
BV45	1	1/4" SAE 45°	1/4" SAE	45° FM
BV453	3	1/4" SAE 45°	1/4" SAE	45° FM
BV90	1	1/4" SAE 90°	1/4" SAE	90° FM
BV903	3	1/4" SAE 90°	1/4" SAE	90° FM
BVAD38	1	3/8" SAE	1/4" SAE	Straight
BVBH	1		1/4" SAE x 1/16" MNPT	Bulkhead
BVM	1		1/4" SAE x 1/4" SAE	Straight
BVM3	3		1/4" SAE x 1/4" SAE	Straight
BVXH	3	Replacement Ball Valve Handle w/1 ea (Yellow, Blue, Red) inserts		

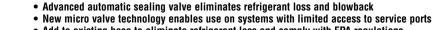
45°SWIVEL ELBOW x MALE FULL FLOW BALL VALVE



BV 1/4" SAE Female, x 1/4" SAE Male



Brass Gauge Adapter



- Add to existing hose to eliminate refrigerant loss and comply with EPA regulations
- Deep easy grip knurling and non-restrictive porting for maximum refrigerant flow

MICROSEAL[™] Anti-Blowback Valves

• Up to 25% smaller O.D. than similar competitive models

Item	Qty / Pk	Female	Male	Other
AB	1	1/4" SAE	1/4" SAE	Straight
AB12	1	1/2" ACME	1/2" ACME	Straight
AB3	3	1/4" SAE	1/4" SAE	Straight
AB410	1	1/2" - 20 UNF	1/2" - 20 UNF	Straight
AB4103	3	1/2" - 20 UNF	1/2" - 20 UNF	Straight
AB41090A	1	1/2" - 20 UNF	1/4" SAE	90° FM
AB410A	1	1/2"- 20 UNF	1/4" SAE	Straight
AB90	1	1/4" SAE 90°	1/4" SAE	90° FM
AB903	3	1/4" SAE 90°	1/4" SAE	90° FM
ABG18	1	1/4" SAE x 1/8"FNPT		1/8" FNPT is not an AB

*HXGA - Replacement O Rings (6)

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ABG18

1/4" SAE FM Anti-blowback

x 1/8" NPT Female



BRASS ADAPTERS

HVAC/R ADAPTERS



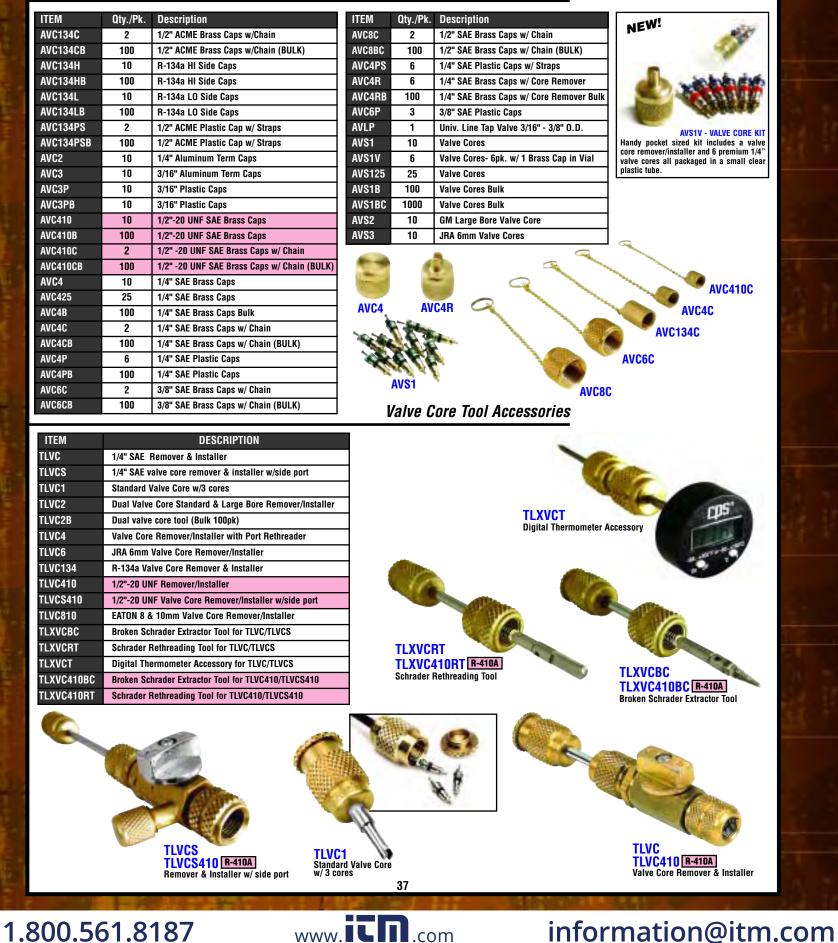
ITEM	QTY	FEMALE	MALE	OTHER	APPLICATION
AD12		1/2" ACME	LO-side R-134a	Bulk	R-134a automotive tanks
AD12B	100	1/2" ACME	LO-side R-134a	Bulk	R-134a automotive tanks
AD14	-	-	14mm x 1/4" SAE		R-134a automotive couplers
AD14B	100	-	14mm x 1/4" SAE	Bulk	R-134a automotive couplers
AD18C	-	1/4" SAE	1/8" SAE	w/ valve core	Manifolds, Compressors
AD24	6	-	1/4" SAE x 1/8" MNPT	w/cap & valve core	Manifolds, Compressors
AD24B	100	-	1/4" SAE x 1/8" MNPT	Bulk	1/4" Service Manifolds
AD36	1	3/16" SAE	1/4" SAE	w/ valve core	TLVC Valve Core Tool for R-12 Auto. HI-side
AD36C	-	3/16" SAE	1/4" SAE	w/ valve core	-
AD41	1	3/4" -14	1/4" SAE	-	Large 125 lb cylinders
AD41B	100	3/4" -14	1/4" SAE	Bulk	Large 125 lb cylinders
AD61	1	3/4" -14	3/8" SAE		Large 125 lb cylinders
AD61B	100	3/4" -14	3/8" SAE	Bulk	Large 125 lb cylinders
AD44	6	-	1/4" SAE x 1/4" MNPT	w/cap & valve core	Vacuum Pumps, Compressors
AD44B	100	-	1/4" SAE x 1/4" MNPT	Bulk	Vacuum Pumps, Compressors
AD47	1	-	1/4" SAE X 1/4" SAE	-	1/4" Hose Union
AD47B	100	-	1/4" SAE X 1/4" SAE	Bulk	1/4" Hose Union
AD48	3	1/4" SAE	1/2" ACME	-	Vacuum Pumps/Manifolds/Recovery/Tanks
AD48B	50	1/4" SAE	1/2" ACME	Bulk	Vacuum Pumps/Manifolds/Recovery/Tanks
AD48C	300	1/4" SAE	1/2" ACME	no valve core	Vacuum Pumps/Manifolds/Recovery/Tanks
AD68	3	1/4" SAE	3/8" SAE	-	Vacuum Pumps
AD68V	-	1/2" ACME	3/8" SAE	male adapter	Vacuum Pumps
AD78	1	1/4" SAE	1/2"-20 UNF	w/core & Depressor	R-410A International
AD78B	100	1/4" SAE	1/2"-20 UNF	w/core & Depressor Bulk	R-410A International
AD81	1	3/4" -14	1/2" ACME	-	Large 125 lb cylinder
AD81B	100	3/4" -14	1/2" ACME	Bulk	Large 125 lb cylinder
AD84	3	1/2" ACME	1/4" SAE	-	Vacuum Pumps/Manifolds/Recovery/Tanks
AD84B	100	1/2" ACME	1/4" SAE	Bulk	Vacuum Pumps/Manifolds/Recovery/Tanks
AD84C	3	1/2" ACME	1/4" SAE	w/Core	Vacuum Pumps/Manifolds/Recovery/Tanks
AD87	1	1/2"-20 UNF	1/4" SAE	w/core & Depressor	R-410A International
AD87S	1	1/2"-20 UNF SWVL	1/4" 55° SAE	w/core & Depressor	R-410A International
AD149C	1	1/4" SAE	1/4" 90°SAE	adapter w/ valve core	-
AD369C	1	3/16" SAE	1/4" 90°SAE	adapter w/ valve core	-
AD849C	3	1/2" ACME 90°	1/4" SAE	w/Core	Vacuum Pumps/Manifolds/Recovery/Tanks
ADGM	R-12 GM POSI-SEAL ADAPTER				
ADK12			DELUXE PRO	SET R-12 ADAPTER KIT	

see page 50 for automotive adapters

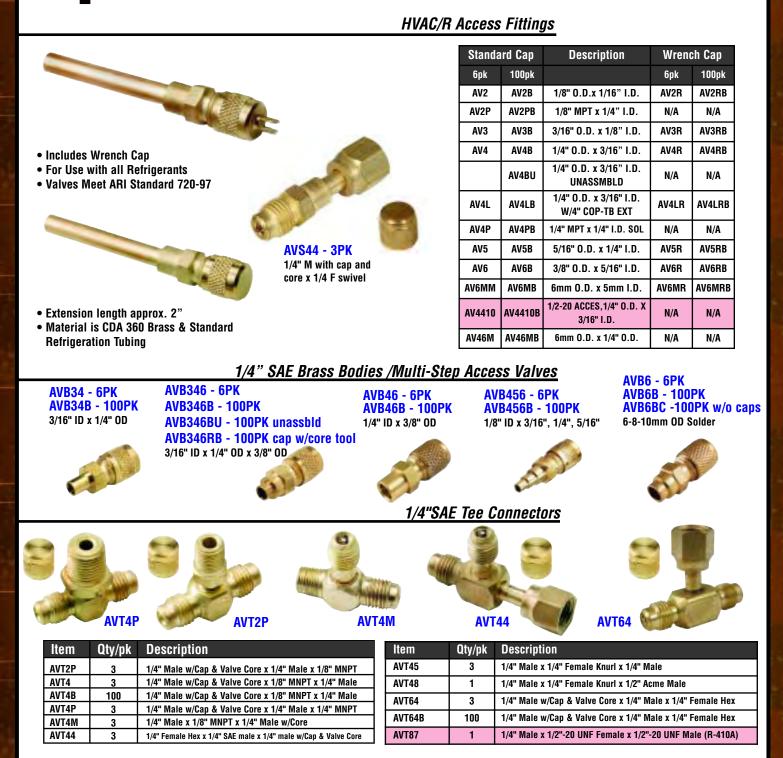
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VALVE CORE TOOLS

Quick Seal O-Ring Caps & Valve Cores



ACCESS FITTINGS



1/4" SAE Access Valve With Copper Tube On Branch

ltem	Qty./Pk.	Description
AVCT4	3	1/4" SAE x 1/4" O.D.F
AVCT4B	100	1/4" SAE x 1/4" O.D.F
AVCT5	3	1/4" SAE x 5/16" O.D.F
AVCT6	3	1/4" SAE x 3/8" O.D.F
AVCT8	3	1/4" SAE x 1/2" O.D.F

	AVCT10	
AVCT8	38 AV	C.

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	ltem	Qty/pk	Description
	AVCT10	1	1/4" SAE x 5/8" O.D.F
	AVCT12	1	1/4" SAE x 3/4" O.D.F
	AVCT14	1	1/4" SAE x 7/8" O.D.F
	AVCT18	1	1/4" SAE x 1-1/8" O.D.F
CT4	1		

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CDS[®] **Pro-Set**[®]

TUBING TOOLS



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TCX7CTS



Titanium Cutting Wheel and Screw for TC127

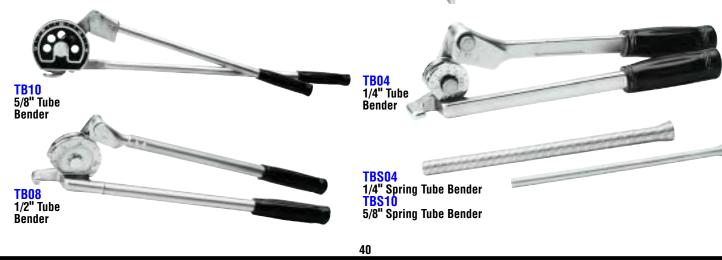
CDDS® TUBING TOOLS PRO-SET® Tube Benders TPSD Namp Sing Copper, aluminum, and light wall hydraulic tubing rom 3/8" to 7/8" Sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" (6, 8, 10, 12, 16, 19, 22mm)

ITEM	DESCRIPTION
TB04	1/4" Tube Bender
TB05	5/16" - 8 mm Tube Bender
TB06	3/8" Tube Bender
TB08	1/2" Tube Bender
TB10	3/4" Tube Bender
TB12	5/8" Tube Bender
TB14	7/8" Tube Bender
TB250	Universal Tube Bender, TC274, Reamer
TB368	Universal Tube Bender 1/4"-5/16"-3/8" 6-8-10 mm
TB6MM	6 mm Tube Bender
TB10MM	10 mm Tube Bender
TB12MM	12 mm Tube Bender
TB15MM	15 mm Tube Bender
TB16MM	16 mm Tube Bender
TB10XH	TB10 Replacement Hook with Screw
TB12XH	TB12 Replacement Hook with Screw
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

ITEM	REPLACEMENT ACCESSORIES
TBXB1	Small Bending Bar
TBX2	Large Bending Bar
TBXM10	Mandrel 3/8" / 10MM
TBXM14	Mandrel 1/2" / 14MM
TBXM16	Mandrel 5/8" / 16MM
TBXM19	Mandrel 3/4" / 19MM
TBXM22	Mandrel 7/8" / 22MM
TBXM6	Mandrel 1/4" / 6MM
TBXM8	Mandrel 5/16" / 8MM
TBXR	Ratchet Mechanism



TB368 Universal Tube Bender



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PRO-SET® Flaring Tools, Kits, Replacement Parts

*All flaring tools listed are recommended for softer thin-walled materials such as copper, aluminum, and brass

TEM	DESCRIPTION		ITEM	DESCRIPTION
S226	Tube Cutting/Double Flaring Set 1/8" - 3/4"		FT800FN	R-410A Imperial Concentric Flaring Tool w/Ratchet 3/16",
S226M	Metric Tube Cutting/Double Flaring Set 4.75, 6, 8, 10mm			5/16" 3/8", 1/2", 5/8", 3/4"
\$275	45° Flaring & Swaging Kit 1/8" - 3/4"		FT806A	Imperial Eccentric Flaring Tool w/Ratchet 3/16",1/4", 5/16 3/8", 1/2", 5/8", 3/4"
-S275M	45° Flaring & Swaging Kit Metric			Metric Eccentric Flaring Tool w/Ratchet 6, 8, 10, 12, 15, 1
SX501	F\$275 Bar 7/16", 1/4", 1/8", 3/16", 5/16", 3/8"		FT806M	18mm
SX502	F\$275 Short Bar 1/2", 5/8", 3/4" O.D		FTX500	FT195 Yoke Assembly
SX503	FS275 5/16" Swaging Adapter		FTX501	FT195 Flaring Bar 5/16", 3/8", 7/16"
SX504	FS275 3/16" Swaging Adapter		FTX509	FT195 Compressor Cone
SX505	FS275 1/2" Swaging Adapter		FTX510	FT195 Wing Nut
SX506	FS275 5/8" Swaging Adapter		FTX513	FT500 Yoke Assembly
SX507	FS275M 8, 12, 14, 16, 22 MM Swaging Adapter		FTX514	FT500 Die Holder Assembly
SX508	FS275 3/4" Swaging Adapter		FTX515	FT500M Die Holder Assembly
SX509	FS275 Yoke Assembly		FTX516	FT525 Yoke Assembly
SX511	FS275M 15, 16mm Flaring Bar Metric		FTX517	FT525 Tube Holding Assembly
SX512	F\$275M 4, 18, 22mm Flaring Bar Metric		FTX518	FS275 Yoke Assembly
SX513	FS275 Compressor Cone		FTX800B410	FT800FN R410A Imperial Flaring Bar
T195	45° Flaring Tool 3/16" to 5/8"		FTX800BA	FT806A Imperial Flaring Bar
T500	45° Flaring/Burning Tool Metric 3/16" TO 5/8"		FTX800BM	FT806M Metric Flaring Bar
T500M	45°Flaring/Burning Tool Metric 6mm to 16mm		FTX800R	Ratchet for FT800FN/FT806A/FT806M
T525	Adjustable Flaring Tool 3/16" to 5/8"/ 5 to 16mm] ₄₁	FTX800Y	Yoke Assembly FT800FN/FT806A/FT806M

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TUBING TOOLS



PRO-SET® Tube Expander/Swaging Set

Imperia	I
Model	Size
TLE6	Tube expander set with 6 heads 3/8", 1/2", 5/8", 3/4", 7/8", 1 1/8"
TLE6M	Tube expander set with case includes: 10, 12, 15, 18, 22, 28mm
TLE601	Expander tool only
TLH06	3/8" Expander Head (Standard in TLE6)
TLH08	1/2" Expander Head (Standard in TLE6)
TLH10	5/8" Expander Head (Standard in TLE6)
TLH12	3/4" Expander Head (Standard in TLE6)
TLH14	7/8" Expander Head (Standard in TLE6)
TLH16	1" Expander Head
TLH18	1 1/8" Expander Head (Standard in TLE6)
TLH22	1 3/8" Expander Head
TLH26	1 5/8" Expander Head

Accessory Heads

Metric Model Size TLHM10 10mm Expander Head (Standard in TLE6M) TLHM12 12mm Expander Head (Standard in TLE6M) TLHM15 15mm Expander Head (Standard in TLE6M) TLHM16 **16mm Expander Head** TLHM18 18mm Expander Head (Standard in TLE6M) TLHM20 20mm Expander Head TLHM22 22mm Expander Head (Standard in TLE6M) TLHM28 28mm Expander Head (Standard in TLE6M) TLHM35 35mm Expander Head TLHM42 42mm Expander Head

TLE6/TLE6M (metric)

- 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 ٠ of operation.
- Re-round deformed tubing and fabricate couplings.
- · Components are heat treated for durability.
- Ideal for copper, aluminum and soft steel tubing.
- Includes storage case for long-term protection.



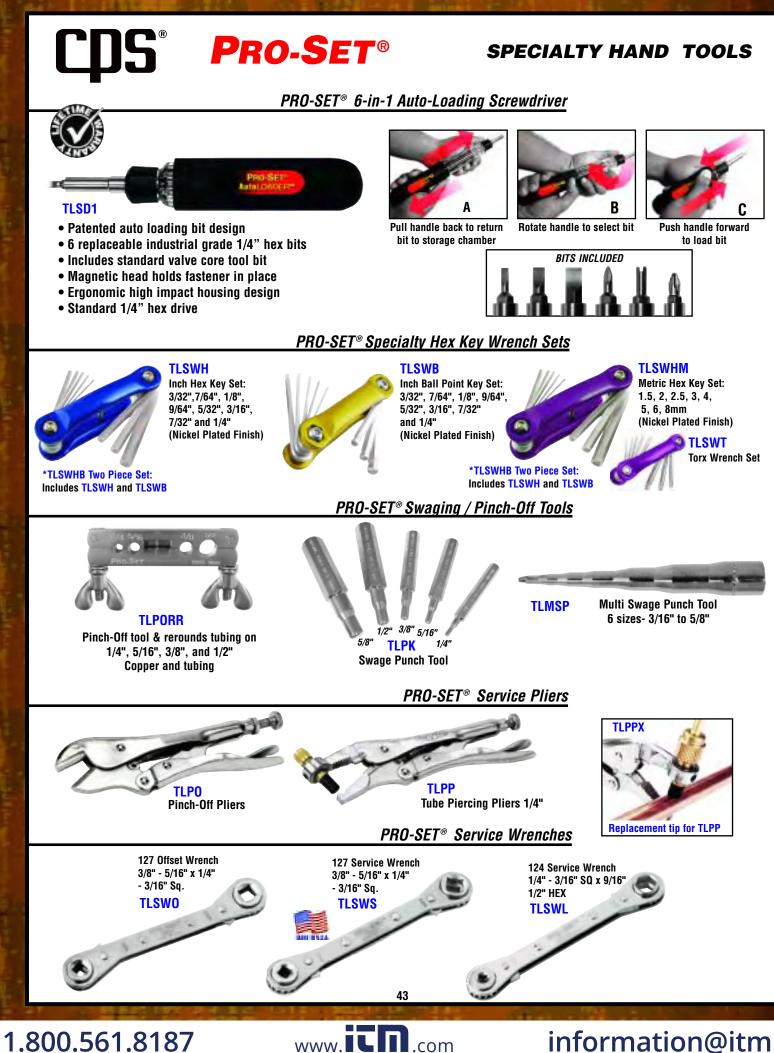
PRO-SET® Metric Torque Wrench Set

Professional interchangeable jaw torque wrench set ensures compliance with OEM torque settings for high pressure **R-410A** systems.

- Interchangeable 17, 22, 24, 26, 27 & 29mm jaw sizes.
- Corresponding settings clearly marked on torque wrench in Newton Meters (10-75Nm).
- Provides consistently accurate readings and rugged, trouble free performance.
- · Includes storage case for long-term protection.
- 1 year product warranty.

TLTWSM





TLFC1 Metal Fin Straightening Tool

TLFC2

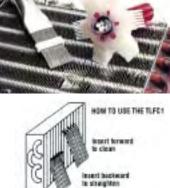
Fin Straighter

with large handle

SPECIALTY HAND TOOLS



TLFC6 Universal 6 Sided Fin Straightening Tool Repair bent condenser fins with the TLFC6 Universal 6 sided fin comb straightening tool.



PRO-SET[®] Inspection Mirrors

ITEM

TLMIR1 TLMIR2

TLMIR3

TLMIR4

TLXMIR1

TLXMIR2

TLXMIR3

TLXMIR4



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"/18mm opening fits all common manufactured valves



Compact Magnetizer/Demagnetizer

DESCRIPTION

Circular Telescoping Pocket Mirror ø 1.25"

Rectangular Telescoping Mirror 3.5 x 2.12"

Circular Telescoping Mirror ø 2.24"

Replacement Mirror Head for TLMIR1

Replacement Mirror Head for TLMIR2

Replacement Mirror Head for TLMIR3

Replacement Mirror Head for TLMIR4

Oval Pocket Mirror 2 x .98"

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. The TLMAG1 is an essential tool for the professional and do-it-yourselfer alike.

- Instantly Magnetize or Demagnetize Steel Tools & Parts
- Incorporates Two C5 Industrial Strength Magnets
- Impact Resistant ABS Molded Plastic
- No Batteries or Electricity Required
- Compact Design: 2" x 2" x 1"



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AUTOMOTIVE SECTION







SERVICE MANIFOLDS

Automotive Two Valve Manifolds with 1/2" ACME FITTINGS

1/2" ACME Fittings on Manifold, 1/2" ACME X 14mm Fittings on Hoses & 14mm couplers

	REGION	North America South America /Asia	North America South America /Asia	Australia	Australia
tion	Refrigerant Scales	R134a	R134a	R134a, R22, R404A	R134a, R22, R404A
Gauge Description	Gauge Size/ Type	2.5" / 68mm Dry	3 1/8" / 80mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry
nge De	Pressure Scales	PS I / kg/cm ²	PS I / kg/cm ²	PSI / Kpa	PSI / Kpa
Gai	Temperature Scales	°F/ °C	°F/ °C	°C	°C
		\checkmark	\bullet	\bullet	\bullet
5	Manifold & Gauges Only	MV7I	MV7S	MV7T	MV7P
ſwo Valve <mark>ORTECH™</mark> Manifolds	6ft / 180cm Hoses w/14mm Prem. Couplers	MV7IA6Q	MV7SA6Q	MV7TA6Q	MV7PA6Q
Tw VO Ma	8ft / 240cm Hoses w/14mm Prem. Couplers	MV7IA8Q	MV7SA8Q	MV7TA8Q	MV7PA8Q
¥	Manifold & Gauges Only	MAI		MAT	
ſwo Valve <mark>ACKMAX</mark> ™ Manifolds	6ft / 180cm Hoses w/14mm Snap Couplers	MAIA6K		MATA6K	
Tw BLA Ma	8ft / 240cm Hoses w/14mm Prem. Couplers	MAIA8Q		MATA8Q	
Two Valve <mark>BRASS</mark> Manifolds	3ft/180cm (Red & Blue) & 5ft/150 cm (Yellow) w/ 14mm Snap Couplers.	MB34			
Two BR Man	6ft / 180cm Hoses w/14mm Prem. Couplers	MB134			
cement iges	Low Side	RGIL	RGSL	RGTL	RGPL
Replacement Gauges	High Side	RGIH	RGSH	RGTH	RGPH
ement es w/ r Boots	Low Side	RGILB	RGSLB	RGTLB	RGPLB
Replacement Gauges w/ Rubber Boots	High Side	RGIHB	RGSHB	RGTHB	RGPHB

*GAUGES W/ BOOTS FOR VORTECH MANIFOLDS ONLY

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VORTECH®



BLACKMAX™



BRASS BODY





SERVICE MANIFOLDS

DUAL AUTOMOTIVE TWO VALVE MANIFOLDS

1/4" SAE Fittings on Manifold, Hoses & Couplers

	REGION	North America South America /Asia	North America South America /Asia	North America South America /Asia	Australia	Australia
tion	Refrigerant Scales	R134a	R134a, 404A, R22	R134a	R134a, R22, R404A	R134a, R22, R404A
Gauge Description	Gauge Size/ Type	2.5" / 68mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry	2.5" / 68mm Dry	3 1/8" / 80mm Dry
uge Di	Pressure Scales	PS I / kg/cm ²	PS I	PS I / kg/cm ²	PSI / Kpa	PSI / Kpa
Ga	Temperature Scales	°F/ °C	°F	°F/ °C	°C	°C
	Manifold & Gauges Only	MV8I	MV8D	MV8S	MV8T	MV8P
Manifolds	6ft / 180cm Hoses w/1/4" SAE Prem. Couplers	MV8IP6Q		MV8SP6Q	MV8TA6Q	MV8PP6Q
M	8ft / 240cm Hoses w/1/4" SAE Prem. Couplers		MV8DP8Q	MV8SP8Q	MV8TP8Q	MV8PP8Q
	Manifold & Gauges Only	MDI	MDD			
Manifolds	2-3ft / 1-6ft Hoses w/1/4" SAE Snap Couplers	MDIFK				
BLACK Mani	8ft / 240cm Hoses w/1/4" SAE Snap Couplers	MDIP6K	MDDP8K			
ges	Low Side	RGIL	RGDL	RGSL	RGTL	RGPL
Gauges	High Side	RGIH	RGDH	RGSH	RGTH	RGPH
		RGILB	RGDLB	RGSLB	RGTLB	RGPLB
Rubber Boots	Low Side	HULD				

NOTE: FOR R-12 1/4" SAE HOSES, SEE PG.35

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CHARGING HOSES & ADAPTER KITS

Automotive Hoses 14mm x 1/2" ACME

LENGTH	YELLOW	BLUE	RED	3-PACK	YELLOW A.B.	3 PACK
	1/2" acme x 1/2" acme	1/2" acme x 14mm	1/2" acme x 14mm		1/2" acme x 1/2" acme	Anti Blowback
3' - 90cm	HA3Y	HA3B	HA3R	HA3	HA3YA	HA3A
5' - 150cm	HA5Y	HA5B	HA5R	HA5	HA5YA	HA5A
6' - 180cm	HA6Y	HA6B	HA6R	HA6	HA6YA	HA6A
8' - 240cm	HA8Y	HA8B	HA8R	HA8		
10' - 300cm	HA10Y	HA10B	HA10R			
20' - 600cm	HA20Y	HA20B	HA20R			



HXG2 - Replacement 1/2" ACME Gaskets (10) HX14R - Replacement 14mm O-Ring (Qty. 10 Red & Blue Hoses Only) HXD - Replacement Depressors (Yellow hose only) See pg. 34-36 for 1/4" SAE Hoses & Replacement Parts

R-12 to R-134a Automotive Hose Conversion Sets



Complete manifold hose set 1/4" SAE x 1/2" ACME 6' w/R-134a couplers **HC6B-** Blue replacement hose **HC6R-** Red replacement hose **HC6Y- Yellow replacement hose** QCL134- R-134a low coupler 14mm QCH134- R-134a high coupler 14mm

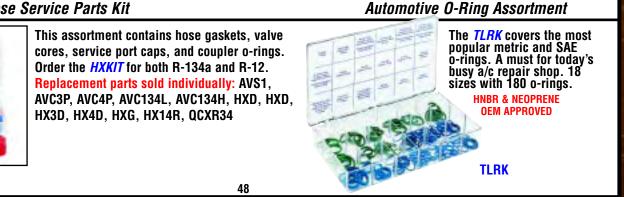
R-12 Automotive Adapter Kit



HTAD1 R-12 1/4" SAE Male x 1/4" SAE Female HTAD2 R-12 1/8" Female x 1/4" SAE Male HTAD3 R-12 3/16" SAE Female x 1/4" SAE Male

HT134L R-134a 1/4" SAE Female x R-134a Low HT134H R-134a 3/16" SAE Female x R-134a High

Charging Hose Service Parts Kit



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HXKIT

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Pro-

· Add existing hose to eliminate refrigerant loss and comply with EPA regulations • Easy 1/4 turn open/close with rugged plastic composite color-coded handles · Oversized chrome ball for smooth operation and non-restrictive flow Individual valves includes all three color-coded handle inserts

BALL VALVES & ANTI-BLOWBACK VALVES

BV38

SAE Male

BV12

ACME Male

SWIVEL NUT STRAIGHT x

MALE FULL FLOW BALL VALVE

3/8" SAE Female, 3/8"

SWIVEL NUT STRAIGHT x

MALE FULL FLOW BALL VALVE

1/2" ACME Female, 1/2"

MALE x MALE FULL FLOW BALL VALVE



1/4" SAE Male, 1/4" **SAE Male**



90° SWIVEL ELBOW x MALE FLOW FLOW BALL VALVE



BVAD90 3/16" SAE Female 90° 1/4" SAE Male 90° FM



Item	Pk	Female	Male	Other
BV	1	1/4" SAE	1/4" SAE	Straight
BV3	3	1/4" SAE 1/4" SAE		Straight
BV38	1	3/8" SAE	3/8" SAE	Straight
BV12	1	1/2" ACME	1/2" ACME	Straight
BVAD	1	3/16" SAE	1/4" SAE	Straight
BVAD12	1	1/2" ACME	3/8" SAE	Straight
BVAD24	1	1/2" ACME	1/4" SAE	Straight
BVAD38	1	3/8" SAE	1/4" SAE	Straight
BVAD90	3	3/16" SAE 90°	1/4" SAE	90° FM
BVXH	3	Replacement Ball V	'alve Handle w/1 ea (Yellow	r, Blue, Red) inserts

MICROSEAL™ Anti-Blowback Valves

- Advanced automatic sealing valve eliminates refrigerant loss and blowback
- New micro valve technology enables use on systems with limited access to service ports
- · Add to existing hose to eliminate refrigerant loss and comply with EPA regulations
- · Deep easy grip knurling and non-restrictive porting for maximum refrigerant flow
- Up to 25% smaller O.D. than similar competitive models

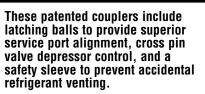
Item	Qty / Pk	Female	Male	Other				
AB12	1	1/2" ACME	1/2" ACME	Straight				
see pg. 35 i	see pg. 35 for additional anti-blowbacks							

AB12

Premium R-134a Manual Couplers Meets EPA SNAP rule



QC134 SET



QCH134 -high side QCL134 -low side **QCXR34** -coupler O-rings

SPEC SAE J-6	
	639
THREAD 14mm	



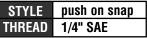
This 1/4" style converts old freon[®] hoses and manifolds to R-134a. Order the **QC14SET** for R-134a 1/2" Acme systems that require the AD84 tank adapter.

QCH14 -high side OCL14 -low side

Standard R-134a Snap Couplers



Change your old R-12 brass manifold to R-134a with the **QC90SET** . Many A/C injectors use the quick connect snap style for the low side dye/oil application. QCH90 -high side QCL90 -low side





SPEC SAE J-639 THREAD 1///" SAE	STYLE	Manual
	SPEC	SAE J-639
	THREAD	1/4" SAE

The snap style is designed for mechanics just starting a/c repair.

QCH13490 -high side QCL13490 -low side QCXO -coupler O-rings



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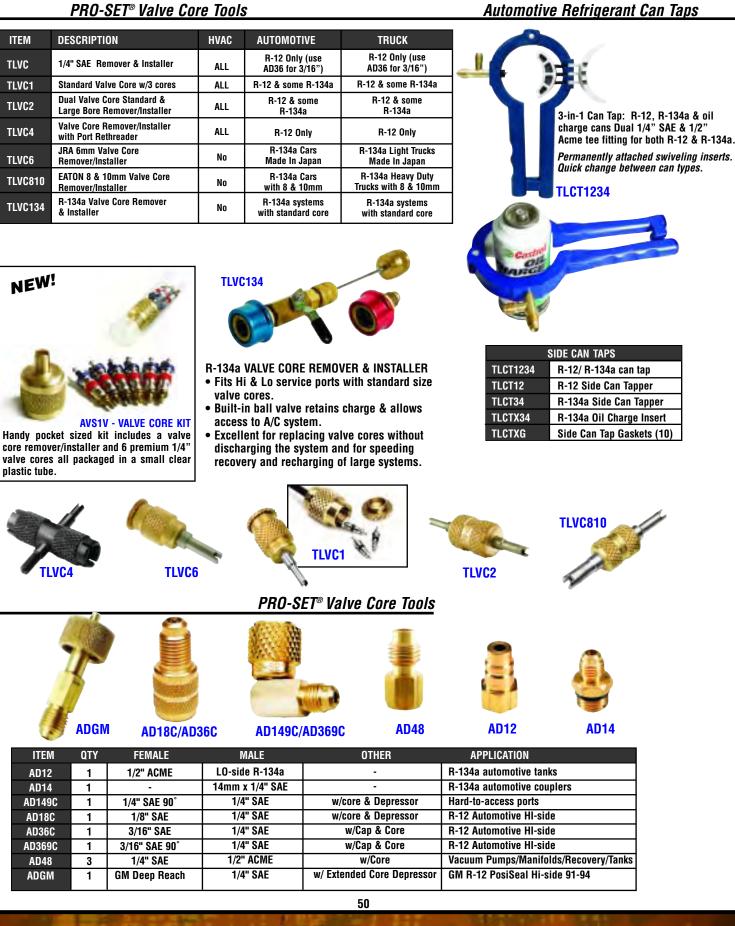
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PRO-SET® Ball Valves Set®



SPECIALTY HAND TOOLS



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SPECIALTY HAND TOOLS

Compressor Clutch Tool Kit

Deluxe Clutch Hub Puller/Inst. Kit



The *CTK1300A* includes the most popular tools that remove and install clutch hubs. In addition, the universal spanner wrench has been added. The instruction manual covers all specifications for air gap, oil, compressor id, and troubleshooting tips.

Domestic and Imports Individual tools include CT205. CT305, CT499, CT861, CT867. CT884

CTK1300A



Comprehensive variety of A/C clutch hub pullers and installers for popular A/C compressors such as GM, Ford, Chrysler and imports.

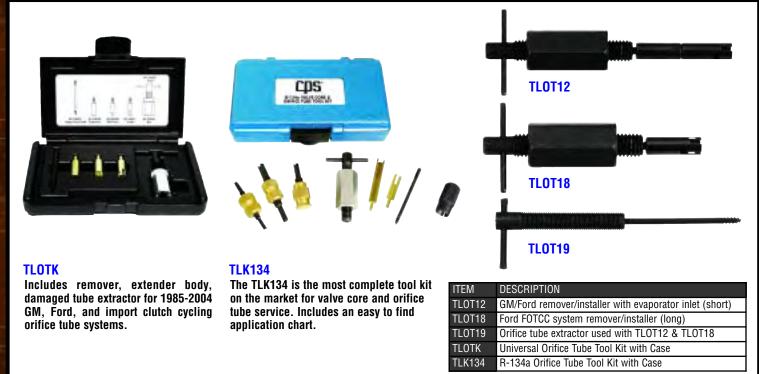
Compressor Clutch Tools

ITEM	COMPRESSOR TYPE	REMOVER	INSTALLER			
CT206	Zexel (Diesel Kiki) used with CT305	YES	NO			
CT305	Sanden SD 5&7	YES	NO	9.9		
CT499	Universal Spanner Wrench	YES	YES	CT499	CT305	
CT861	GM R4, A6 SAE	YES	YES			• •
CT867	GM V5, DA6, HR6 Metric	YES	YES			
	Ford FS6 /Chrysler C171	YES	YES		CT206	
CT884	Hitachi MJ /Tecumseh	YES	YES	41-631	6 0.	CT862 GM SAE Metric Set
	Nippondenso 6P /10P	YES	YES	СТ867		
	-	-		CT861	CT884	•

Orifice Tube Tool Kit

R-134a Orifice Tube Tool Kit

Individual Orifice Tube Tools





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SPECIALTY HAND TOOLS

Flush Gun kit



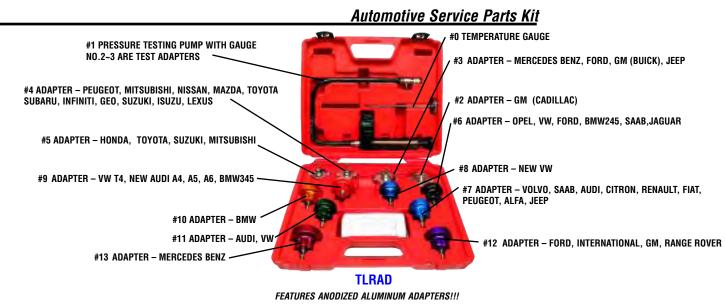


Reduce comebacks by flushing evaporator & condenser with the *TLFG*. Simply add solvent and use shop air to reverse flush the component. *TLFGXT* - Replacement tip for flush gun.

PRO-SET[®] Flaring & Swaging Tools



Metric ISO Bubble Flaring For Japanese and European Brake Lines Tool Kit 4.75, 6, 8, 10 mm

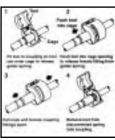


Springlock Coupling Tools

Anodized Aluminum A/C Disconnect Tool Kit



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TL7881



PRO-SET® Deburring Tools /Universal Reamer Tool

Refractometer



TLREF

ANTIFREEZE / BATTERY / CLEANING FLUIDS TESTER This instrument is designed for testing the concentration of battery fluids, antifreeze liquids and cleaning fluids. The percentage indicator indicates the point of freezing for both propylene glycol and ethylene glycol. It can also be used for checking the strength of electrolyte solution batteries.

CPS

OONLIGH

Actual Size

AUTOMOTIVE

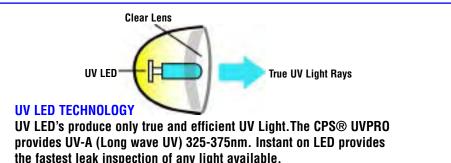
UV REFRIGERANT LEAK DETECTION

UVPRO UV Flashlight & Enhancing Glasses

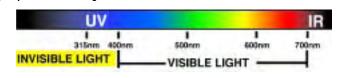
UVPRO

Don't forget the "UV" when selecting your next UV light.

Ultra Violet (UV) dye additives are specially formulated to fluoresce in the presence of UV light rays. Hence the common industry names for the two major components used with this technology, "UV" dye and "UV" lights. Referring to the light spectrum chart below you can see that true "UV" light is invisible to the human eye, with the closest visible light colors being purple and blue respectively. The overall intensity of UV light diminishes as you move from the invisible UV light range to purple, then to blue and so on down the chart. Take care not to confuse a lamp that emits high intensity visible blue light as superior to a lamp tuned more efficiently to emit true UV light.



Light spectrum wavelengths in nanometers



Why **BLUE** is NOT Necessarily Cool

A correctly tuned Ultra Violet (UV) lamp should predominantly emit invisible UV light waves with only a trace of visible "purple" or "blue" light. The small amount of visible light is required to direct the user's eyes to the leak search area, while the invisible UV light rays actually illuminate the leaking dye. Lamps that emit large amounts of visible blue light have been marketed heavily as being more powerful and more effective at fluorescing leaks, backed by the obvious high output of visible light. Knowing that UV dye additives requires invisible true UV light rays to effectively fluoresce dispels this claim altogether. In fact, special "blue blocking" glasses are required for use with these high output blue lamps in order to remove the nuisance blue light from the vision of the user during the leak search process. Otherwise, the high output of light will mask the actual leak or illuminating dye additive.



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UVPRO

The new and improved UVPRO light is the most compact and efficient UV light we have ever designed. The nine high intensity true UV LED's are specifically engineered to maximize the fluorescing capabilities of today's most commonly used dyes while greatly reducing the amount of "nuisance" background blue light emitted. Its rugged anodized aluminum body and o-ring sealed battery compartment allows it to handle harsh field conditions while small enough to conveniently fit in your pocket.

UVPRO True UV Inspection Lamp

- 9 True UV emitting LED technology
- Rugged anodized aluminum body
- Works with all common dye additives
- Ultra Compact and lightweight

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- Instant "ON" with no heat produced
- Operates on (3) AAA batteries (included)

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UV REFRIGERANT LEAK DETECTION

UV55A LED Refrigerant Leak Detection Kit



UV55A Includes: UVPRO LED flashlight, squeeze gun injector w/hose, R-134a 90 low side coupler, safety glasses, (5) UVS5 5-shot universal dye cartridges



UV55A

- UVPRO True UV emitting LED light technology
- Compact & Rugged anodized aluminum body
- Mess-free and easy to use Squeeze Gun[™] injector
- 1 universal OEM approved dye cartridges; good for 5 vehicles
- Includes 90° low side snap coupler
- Operates 8 continuous hours on (3) AAA batteries (included)

UV Dichroic Refrigeration Leak Detection Kits

UV100

This design allows technician to use pre-measured, pre-filled dye cartridges and requires no refrigerant. Simply connect to low or high side and squeeze the trigger. Standard automotive a/c systems require only a 1/40z/7.39ml. Larger cartridges are available for vans, trucks, buses, and refrigerated trailers.



Product application shown



UV300

This economical method of injection uses refrigerant to push dye into the system through a refillable anodized aluminum in-line injector. Simply fill the injector with the appropriate amount of universal Moonshine[™] dye (1/4oz/ 7.39ml of dye treats 20oz/591ml lubricant).



Product application shown

UV Dichroic Filter Lamps

			ACCES	SORIES	
		UVXB UVXBC	Rechargeable Battery Pack Battery Carrying Case	UVXG UVXLNS	Safety/Enhancing Glasses 50W Replacement Dichroic Lens 100W Replacement Dichroic Lens
UVAL	UVAM	UVXC UVXBLB UVXBLB100 UVXBLBPB0	100V Battery Charger 50W Bulb -UVAL/UVCL 100W Bulb- UVAM/UVCL100 Replacement Bulb for UVPRO before 2007	UVXENSTOU UVXSGA UVXSH UVXSHA	Hose Assembly for Squeeze-Gun Injector Hose Assembly for UVSTICK1 Hose Assembly for UVSTICK2 and Lo
10	۶	UVXC	110V Battery Charger 220-240v Battery Charger Battery Connectors	UVXSTA	Coupler 3/8"FM X LO side Auto Adapter for UVSTICK
	- D		-		

Powerful 50W Bulb Instant On Technology 90°Swivel Head

Powerful 100W Bulb **Instant On Technology** 45° Handle for Comfortable GripUse Use with UVXB (not included) with UVXB (not included)

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NITROKIT

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RECOVERY, RECYCLING, RECHARGING EQUIPMENT

Nitrogen Pressure Leak Test Kit

NITROKIT automotive Air Conditioning Nitrogen Pressure Leak Test Kit. This kit is needed to pre-check automotive A/C systems for leaks due to loose mechanical connections, leaks in hoses, evaporators and condensers, before re-introducing refrigerant back into the A/C system. This will prevent unnecessary leakage of refrigerant into the atmosphere. The **NITROKIT** consists of the following items:

- NITRO test manifold with 0-200 PSIG gauge
- NITRO lest manifold with 0-200 PSIG yau
- 6' Red Service Hose with 1/4 SAE Female
- R 134a High Side Snap Coupler
- 25' Coiled Air Hose Assembly with 1/4 MPT X 1/4 Coupler
- Instructional Manual





WARNING: Item must be used with nitrogen regulator. "NOT INCLUDED"



These portable, compact charging stations are ideal for small and large repair shops alike providing all the necessary tools to properly charge an A/C system on one lightweight tubular cart with rear wheels. Included with this station is a *PRO-SET*[®] manifold, a *PRO-SET*[®] vacuum pump, a Compute-A-Charge[®] refrigerant scale, premium charging hoses and manual R-134a couplers. The unit is designed to allow a full system vacuum and charging without reconfiguring the hoses for a contamination free charging.

Portable R-134a Automotive Charging Station

- Unsurpassed Charging Accuracy of ± 0.015% of reading
- Hanging ports and hooks for hose storage
- Rear wheels on Frame for Ease of Mobility
- Perfect for Busy A/C shops or as Alternative to Large Charging Equipment
 All Components Store Easily on Cart

CS12DMV4TP6Q

"Ideal for both new installations and existing service work."





Ease of Mobility



All Components Store Easily on Cart

Item	Application	Manifold Type	Refrig. Scales	Press. / Temp. Scales	Hoses	Vacuum Pump	Scale
CS12DMV4SP6Q	Automotive	Vortech™ 4 valve Manifold (MV4T)	R22, R134a, R404A (2.5" / 68mm)	PSI / °F	3-pk of 6ft / 180cm Prem. Hoses & CpIrs.	Two Stage 2 CFM Pump (15 microns)	220lb Compute-A- Charge Scale
CS12DMV4TP6Q	Automotive	Vortech™ 4 valve Manifold (MV4T)	R22, R134a, R404A (2.5" / 68mm)	kPa / PSI / °C	3-pk of 6ft / 180cm Prem. Hoses & Cplrs.	Two Stage 2 CFM Pump (15 microns)	100kg Compute-A- Charge Scale

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RECOVERY, RECYCLING, RECHARGING EQUIPMENT

Pro-Set® Refrigerant Recovery / Recycling System



AR2788S Specifications						
Models	AR2788S AR2788J AR2788SE					
Compressor Type		1/3 HP reciprocating compressor				
Dimensions	22" W x 24.5" D x 42" H					
Weight	120 lbs (does not include tank weight)					
Operating Range	0°C (32° F) to 49°C (120°)					
Power Source	115 VAC 60Hz 1Ph 100VAC 50 / 60Hz 1Ph 220-240VAC 50/60Hz 1Ph					
Power Consumption	500 W					
Suction Pressure Gauge	-30 inch Hg to 125 PSIG					
Discharge Pressure Gauge	0 to 500 PSIG					
Filtration	41 cubic inch drier, .7 micron oil separator					
Automatic Control Valves	Patented ball valve control system					
Charging Valve	Solenoid Valve					
Construction	1" Heavy duty tubular frame construction - 10" pneumatic wheels, 4.5" swivel casters					
Overload Protection	15A Thermal Breaker 15A Thermal Breaker 10A Thermal Breaker					
High Pressure Shut-Off	30 bar (450 psig)					
Refrigerants	R134a					

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RECOVERY, RECYCLING, RECHARGING EQUIPMENT

Pro-Set® Refrigerant Recovery / Recycling System



THIS EQUIPMENT HAS BEEN CERTIFIED BY UNDERWRITERS LABORATORIES INC. To meet epa's minimum requirements for recovery equipment intended for use with all appliances containing refrigerant 12, 22, 500, 502 and 134A. UL Control Number 2HA5.

- Automatic programmable charging
- Lo side or Hi side or Hi & Lo side charging
- · Non-restrictive heavy duty ball valve contro system
- On board HI and LO gauges and valves for manifold function
- 16 cubic inch filter drier with moisture indicator
- .7 micron oil separator filter to collect and measure oil removed from the mobile A/C system
- 1" Heavy duty tubular steel frame with powder coated steel cabinetry
- Large 10" pneumatic wheels with 4.5" swivel casters for easy maneuverability
- R134a couplers and refill adaptors
- Can be dedicated to one of several refrigerants. See specification list for approved refrigerants
- Built in condenser for high ambient temperature operation
- Built in evaporator to protect the compressor against flood-back
- AR2700M series includes a pump down valve for multiple refrigerant use
- Optional 50 lb. or 90 lb.on board recovery tank

*Tank shown not included

AR2700J / AR2700MJ 1/3 HP reciprocating compressor 22" W x 24.5" D x 42" H 120 lbs (does not include tank weight) 0°C (32° F) to 49°C (120°) 100VAC 50 / 60Hz 1Ph 500 W -30 inch Hg to 125 PSIG 0 to 500 PSIG filter drier w/ maieture indicator 7 micror	AR2700E / AR2700ME 220-240VAC 50/60Hz 1Ph			
22" W x 24.5" D x 42" H 120 lbs (does not include tank weight) 0°C (32° F) to 49°C (120°) 100VAC 50 / 60Hz 1Ph 500 W -30 inch Hg to 125 PSIG 0 to 500 PSIG				
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100VAC 50 / 60Hz 1Ph 500 W -30 inch Hg to 125 PSIG 0 to 500 PSIG				
500 W -30 inch Hg to 125 PSIG 0 to 500 PSIG				
-30 inch Hg to 125 PSIG 0 to 500 PSIG				
0 to 500 PSIG				
	-llle-			
filter drier w/ moisture indicator 7 micror	- Harrison and a second s			
16 cubic inch filter drier w/ moisture indicator, .7 micron oil separator				
Ball valves control HI, LO, Recover, and Vacuum				
12 VDC Solenoid Valve				
1" Heavy duty tubular frame construction - 10" pneumatic wheels, 4.5" swivel casters				
15A Thermal Breaker	10A Thermal Breaker			
30 bar (450 psig)				
R134a, R12, R22, R502, R404a, R402a, R401a, R407c, R409a				
15A Thermal Breaker15A Thermal Breaker10A Thermal Breaker30 bar (450 psig)				

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RECOVERY, RECYCLING, RECHARGING EQUIPMENT

A/C Solvent Flushing Unit



Universal Couplers

Flushing an A/C system removes any particles and oil from the components reducing the possibility of system problems later on. Powered completely by shop air, the AFM100 can be changed from forward to reverse flush simply by turning a valve. All the contaminants and oil remaining after a catastrophic A/C failure are completely blown away by the high velocity motion of solvent. Fast and easy to use the AFM100 can be a great moneymaker for your business. The AFM100 Flush Machine is an essential tool for your shop.

- Air purge
- Forward or reverse flush without changing hoses
- Clear filter bowl with cleanable screen for visual inspection of what is being removed from A/C system
- Restores performance of A/C system by removing carbon build up from heat transfer condensors and evaporators
- Eliminates compressor or dessicant failure and residue from overheated lubricants
- · Simple 2 step operation with only one hook up
- Capacity 2 quarts for cars to 2.5 gallons for buses
- Easy to connect quick couplers fit evaporators, condensers and hose connections

system components.

- 8' clear braided hoses
- Low maintenance

AFM100 Specifications			AFM100 Service Parts		
Unit Consists Of:	Set of universal clamps, service hoses and an operation manual	AFMXH	Flush hose with 3/8 female SAE swivel connection		
Power Source	50 PSIG minimum air pressure	AFMXHS	Flush hose rubber seal, set of 2		
Dimensions	21.5" wide x 18.5" deep x 39.4" high	AFMXF	Replacement cylindrical filters		
Weight	78 lbs	AFMXC	Replacement universal clamp complete		
Operating Range	0° C (32°F) to 49° C (120°F)	AFMXCS	Replacement universal clamp rubber seal		
Air Pressure Gauge	0 to 100 PSIG	AFMXR	Replacement Refill Cap		
Filtration	100 mesh cleanable screen		AFM100 CPS SUPER FLUSH		
Manual Control Valves	2 way ball valve to control air supply to the unit 3 way ball valve to control air Purge / Flush circulation		One gallon can of CPS Supreme Flush		
	4 way ball valve to control Forward and Reverse flush	AFMSFC	One case 4-One gallon cans of CPS Supreme Flush		
Construction	Heavy duty power coated sheet metal cabinet with 6" wheels	-	Supreme Flush is a major A/C technology		
Adaptors	One set of universal clamps with 3/8" SAE Male fittings	File	breakthrough for removing particles including		
High Pressure Relief Valve	125 PSIG	E	common leak sealants, which are damaging to R-134a and R-12 refrigerant machines and A/C		

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CPS Supreme Flush: AFMSF / AFMSFC

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Solvent

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RECOVERY, RECYCLING, RECHARGING EQUIPMENT

PRO-SET® Oil-Less Recovery / Recycling Unit



CRX390T 1/4" SAE & 1/2" ACME 90 lb. w/ tank adapter CRX390TS 1/4" SAE 90 lb. tank with float *DOT TANK CLASSIFICATION FOR US MARKET

Warranty

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CPS[®] guarantees that all products are free of manufacturing and material defects for one year from the date of purchase. If a product should fail during the guarantee period due to defective material or workmanship, it will be repaired or replaced (at our option) at no charge. This guarantee does not apply to products that have been altered, misused or are in need of field service maintenance. All repaired products will carry an independent 90 day warranty. LS3000B and LS790B carry a 2 year warranty.

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