

Bacharach HVAC and Refrigeration Tools and Instruments





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Indoor Air Quality

Sling Psychrometer



The uniquely compact Bacharach® Sling Psychrometer accurately determines percent relative humidity without the necessity of consulting complex tables. There is no need to wet the wick each time a reading is taken; the Sling Psychrometer contains a slide rule calculator which correlates wet and dry bulb thermometer indications for direct reading of relative humidity. When not in use, the thermometer case telescopes into the handle for protection.

Features

- Designed for portability (7.5" long x 1" diameter)
- Slide rule construction quickly converts temperature to relative humidity
- Built-in water reservoir holds sufficient water for several hours of testing
- Thin bulb design gives fast thermal response
- Thermometers constructed of shock resistant glass; stems have deep-etched numerals and 1° scale divisions for easy reading
- Accurate to within ±5% R.H.

Dual-Channel Digital Thermometer

Model TH3000



Features

- Temperature: -50°F ~ 1999°F (-50°C ~ 1300°C)
- 2 K-Type 39" Thermocouples
- T1-T2 differential measurement
- Resolution: 1°F / 1°C
- Data-hold and max-hold functions
- Flip-up stand
- Includes protective boot and battery

Humidity-Temperature Meter

Model TH1800



Features

- Humidity: 10% RH ~ 95% RH
- Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Resolution: 0.1°C / 0.1°F / 0.1%RH
- Wet bulb and dew point temp. readings
- Data-hold and relative function
- Dual LCD display with bargraph indication
- Includes soft carrying case and batteries

Ordering Information

Item #	Mfg. #	Description
MTR00971	12-7011	+20°F to +120°F Mercury Filled Sling Psychrometer
TOL02776	12-7012	+20°F to +120°F Red Spirit Filled Sling Psychrometer
MTR00972	12-0267	Thermometer (+25°F + 120°F Mercury Filled)
KIT12491	12-0011	Sling Psychrometer Wick Replacement Kit - contains 4 wicks
CAP01006	06-5456	Sling Psychrometer Cap
TOL02777	2030-0000	Dual-Channel Digital Thermometer
MTR00980	2002-1800	Humidity-Temperature Meter

Analyzers & Monitors

Carbon Monoxide Analyzer



Bacharach's Monoxor® III offers service technicians the easiest and most affordable way to locate CO in ambient air as well as stack gases. The Monoxor® III CO Analyzer is a battery powered, hand-held instrument that can quickly and accurately measure levels of CO between 0 and 2,000 ppm. In addition to locating CO in ambient air, the Monoxor® III is supplied with a stainless steel probe and five feet of tubing to sample CO found in flue gases of residential furnaces, combustion appliances, commercial and industrial boilers. An optional wireless IrDA printer provides a permanent record of the detected CO level.

Specifications

Range	0-2,000 ppm
Resolution	1 ppm
Accuracy	+/- 5% of reading or 10 ppm, whichever is greater
Operating Temp.:	Instrument: 32-104°F (0-40°C) Probe: 1,000°F (538°C)
Battery Life	24 hours continuous (minimum of 16 hours)
Display	Four-digit LCD display w/backlight
Power	4 'AA' Alkaline batteries
Printer Port	IrDA or HP protocol
Weight	16 oz. with batteries
Dimensions	7.5"H x 3.1"W x 2.1"D (190mm x 79mm x 53mm)
Warranty	2 years, including sensor

Ordering Information

ServiceFirst Item #	Mfg. #	Description
TOL02693	19-8104	Monoxor® III includes 4 'AA' batteries, probe & hose assembly with integral water-trap / filter, and a hard carrying case.
TOL02794	24-1400	IrDA Printer with Disposable Batteries
PAP00004	06-8733	Printer paper, 1 roll package
PAP00005	24-1310	Printer paper, 5 roll package
SEN01324	24-7265	Replacement CO sensor
ADP01128	24-1254	Battery eliminator
FLR06385	07-1644	Filter Element for Water Trap, Package of 3

Leak Detection

Leakator® Jr.



Leakator® Jr is a handheld combustible gas leak detector used to pinpoint combustible gas leaks in commercial, residential and industrial applications, including surveying gas pipelines and inspecting valves, regulators and meters on gas equipment. When combustible gases are sensed, audible and visual indication will be given. Combustible gases detected include: Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Iso-Butane, Methane, Methanol, Paint Thinners, Propane, Natural Gas and Naptha.

Features

- **Visual Indicator**
1 LED (Variable Frequency)
- **Audible Indicator**
Loud audible ticking rate
- **2 Sensitivity Levels**
Aids in pinpointing leak detection
- **Operational Status LED**
- **Low Power Metal Oxide Sensor**
Plug-in sensor
- **12 Inch Flexible Probe**
- **Tough ABS Plastic Housing**
Durable and rugged
- **UL Classified**
- **Automatic Calibration**
- **Micro Processor Controlled Circuitry**
- **Easily Replaced AA-Batteries**
Battery life is 14 hours
- **New Compact Design**
Fits in the palm of hand
(6" L x 2" W x 1.5" D)
- **2 Year Warranty**

Specifications

Housing	Molded four piece ABS plastic
Power	Four alkaline AA-batteries, included. Battery life is 14 hours
Warm-up Time	Automatic calibration, about 60 seconds to operational condition
Sensor	Low power metal oxide
Probe	Self storing 12 inch flexible probe. Accommodates integral sensor
Sensitivity (Methane Based)	20 ppm in high sensitivity mode 50 ppm in low sensitivity mode
Status Indicators	Visual: 1 ultra-bright variable frequency LED. Audible: Variable speed ticking sound. Power-On flashing green, Power-Off solid red, Ready Condition Flashing green (low frequency)
Environments	32° to 104°F (0° to 40°C) 15% to 75%, non-condensing
Dimensions / Weight	6" H x 2" W x 1.5" D (15.3 cm x 5 cm x 3.8 cm) 6 oz. (0.17Kg.)
Safety Approvals	UL 913, intrinsically safe, for use in Class I, Division I, Groups A,B,C, and D hazardous locations
Warranty	Two year full warranty on instrument

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02784	19-7075	Leakator® Jr., flexible 12 inch probe for combustible gases and vapors, with instruction manual, sensor, cloth case, and batteries.
SEN01374	19-0575	Replacement sensor

Leak Detection

Leakator® 10



Bacharach's Leakator® 10 is a low maintenance combustible gas leak detection unit, small enough to be operated with just one hand, yet loaded with the kind of advanced features and technology professionals demand.

Powered for up to 30 hours of continuous operation by alkaline C-cell batteries, Leakator® 10 comes complete with a flexible 20-inch long probe for hard-to-reach areas and a solid state sensor that will last for up to five years. Leakator® 10 allows you to pinpoint large and small leaks quickly, while checking a relatively large area in a short amount of time.

Features and Benefits

- **Visual Indicator**
10 Ultra-bright LEDs
- **Audible Indicator**
Loud audible ticking rate
- **30 Hour Battery Life**
Easily replaced C-cells
- **Sensitivity Thumb-Wheel**
Aids pinpointing leak detection
- **Operational Status LEDs**
English and international systems
- **Solid State Sensor**
Plug-in sensor, five year typical life
- **20 Inch Flexible Probe**
For hard to reach locations
- **Also Available for ETO**
Part No. 19-7063
- **UL Listed**
Intrinsically safe
- **CE Mark**
Electronic performance standard

Specifications

Housing	Molded, three piece ABS plastic in bright yellow color, includes carrying strap
Power	Five alkaline C-cells, not provided 30 hours typical life for continuous operation
Warm-up Time	Automatic, self check, about ten seconds to operational condition
Sensor	Semiconductor type. Five year typical life. Plug-in replacement
Probe	Self storing 20 inch flexible probe. Accommodates integral sensor
Sensitivity	20 ppm useable sensitivity (methane)
Status Indicators	Visual: 10 ultra-bright red LED's. Audible: Variable speed ticking sound. Earphone available for use in noisy environments. Power-On ultra-bright green LED, Fail ultra-bright yellow LED. Low Battery ultra-bright yellow LED
Environments	23° to 130° F (-5°to 54°C), 10% to 90% relative humidity, non condensing
Dimensions / Weight	Leakator®: 18 oz. (0.51Kg.), 8.5" x 2.25" x 1.75" (21.6 cm x 5.7 cm x 4.4 cm) Case: Black HDPE, 17 oz. (.48Kg), 10.5" x 7" x 3" (26.7 cm x 17.8 cm x 7.6 cm)
Safety Approvals	UL listed, intrinsically safe, for use in Class I, Division 1, Groups A, B, C, and D classified areas
Warranty	One year limited warranty. See warranty card for more information

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02705	19-7051	Leakator® 10, in custom carrying case, flexible 20 inch probe for combustible gases and vapors, with instruction manual (batteries not included)

Leak Detection

Tru Pointe® Refrigerant Leak Detector



Bacharach's newest refrigerant leak detector, the Tru Pointe®, is designed specifically for technicians looking for a premium quality leak detector at an affordable price.

The Tru Pointe® is designed to be instantly responsive to all refrigerants. It is even accurate when used in environments where high levels of refrigerant vapors are present. No manual sensitivity adjustments are necessary during the inspection process. Simply turn the unit on, and let it mark the spot!

Features

- Detects all CFC, HFC, and HCFC refrigerants using patented heated diode sensor technology
- Instantaneous response time
- Innovative sensor replacement design
- Up to 20 hours continuous operation on 2 'D' alkaline batteries
- Battery-powered with low battery indication
- Long-life, DC brushless fan
- High and low-sensitivity modes
- Automatic zero and background compensation
- Audible & visual leak indication
- Easy to use, one-handed operation
- No user calibration required

Specifications

Sensing Elements	
Type:	Patented Heated Diode, Plug-in
Life Expectancy:	150 Hours or 1 year of normal use
Refrigerants Detected	All CFC, HCFC and HFC refrigerants, including R-12, R-22, R-123, R-134a and blends R-404a, R-408A, R-409A, and R-410A (i.e. any refrigerant containing Chlorine, Fluorine or Bromine gas)
Alarm Sensitivity of R-134a (Hardest refrigeration to detect)	0.5 oz / year (14g/year) per SAE J1627 0.1 oz / year (3g/year) when probe is held over leak source for at least 5 seconds
Alarm Types	Variable-intensity audible and visual alarms
Power Source	Two 'D' Alkaline Batteries
Warm-Up Time	10 seconds
Response Time	Instantaneous
Battery Life*	15 hours minimum
Probe	14" (35.6cm) flexible
Size	2" W x 9.4" L x 2.5" H (5 cm W x 23.8 cm L x 6.3 cm H)
Weight	1.16 lb (0.53kg) w/ batteries
Agency Approvals	UL Listed in accordance with SAE J1627, CE
Warranty	One year, including sensor

*As tested in low sensitivity mode using Duracell Ultra MX 1300 alkaline batteries

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02782	19-8106	Tru Pointe®, instruction manual, 2 'D' Batteries and hard carrying case
SEN01375	19-0559	Sensor

Leak Detection

H10PM All-In-One Refrigerant Leak Detector



H10PM Features

- Detects all CFC, HFC, and HCFC Refrigerants
- Manual or automatic zero balance control
- Pass/Fail Test mode
- Unique sensor calibration system
- 3 sensitivity modes
- Powered by a rechargeable battery
- Pinpoints both small and large leaks

H10G Features

- Detects all CFC, HFC and HCFC Refrigerants
- Manual zero balance control
- Pinpoints both small and large leaks
- AC powered
- 3 sensitivity modes
- 25 years of proven experience

H10G Manual Balance Refrigerant Leak Detector



Specifications

Detects:	All CFC, HFC, and HCFC Refrigerants	
Sensing Element:	Positive Ion Emission Heated Diode	
Sensitivity:	R-134a	Small - 0.1 oz/year Medium - 0.5 oz/year Large - 2.0 oz/year
Warm-Up Time:	Approx. 2 minutes	
Performance:	Exceeds SAE J1627	
Probe Length:	4.5 feet	
Dimensions / Weight:	H10PM	5.5" x 10.5" x 8.5" / 5lbs. (14cm x 27cm x 22cm / 2.3 Kg)
	H10G	2.5" x 4.5" x 8.5" / 3lbs. (6cm x 11cm x 22cm / 1.4 Kg)
Operating Temp. Range:	32° TO 104°F (0° to 40°C)	
Agency Listings:	UL File SA917, SAE J1627, CE-Mark	
Power:	H10PM	Internal, Rechargeable Battery (120VAC Charger Included) Optional: 12V Battery Clamp Leads and Cigarette Adapter Optional: 120V Charger for Charge or Run
	H10G	120VAC Only
Zero Balance:	H10PM	Manual and Auto
	H10G	Manual Only
Switchable Sens. Modes:	Yes	
Alarm:	Audible and Visual	

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02793	3015-0456	H10G Standard Leak Detector *
TOL02785	3015-0627	H10PM All-in-One Leak Detector
H10PM Accessories and Parts		
ADP01131	3015-0131	AC Adapter (120V AC) (will charge or run unit)
BAT00055	3015-0103	Battery for H10PM
H10G and H10PM Accessories and Parts		
SEN01376	3015-0486	Replacement Sensor
KIT13653	3015-0784	Maintenance Kit
BOT00014	3015-0864	Leak Reference Bottle

* Specify power requirements when ordering.

Leak Detection

Informant® 2



The Informant® 2 leak detector allows pinpoint detection of both refrigerant and combustible gas leaks with the same instrument.

Its unique combination of state-of-the-art patented sensor technology, advanced software design and microprocessor-controlled circuitry offers you unmatched precision coupled with tremendous speed. The Informant® 2 utilizes a patented semiconductor sensor technology to detect combustible gases and patented heated diode sensor technology to detect refrigerants.

Swap sensor tips within seconds and never worry about adjusting sensitivity levels - it's taken care of automatically - even where high levels of background vapors or refrigerants are present. The refrigerant sensor tip is finely tapered to a 0.2" diameter - so you can get in between coils and fittings, gaining access to hard to reach areas.

The Informant® 2 leak detector features an audible indicator with a mute option coupled with sequential LEDs to monitor increasing concentrations of refrigerant or combustible gases. Dual bar graph displays offer visual confirmation no matter what position the instrument is in. And, a flashing light at the tip of the probe helps to visually define your sampling location.

Features and Benefits

- Detects both refrigerants and combustible gases (with respective sensor installed)
- Audible indicator with mute feature
- Sensor set at the tip for pinpoint accuracy and instantaneous response time
- Sensors are interchanged quickly and easily
- Flashing probe tip, LED display
- Low battery indicator
- Optional boot and flashlight
- Lightweight and ergonomically designed
- Microprocessor controlled for accuracy and reliability
- Sensitivity is adjusted automatically
- Hydrophobic filter prevents moisture contamination
- Rugged rubber boot holds flashlight (optional)
- Flashing probe tip, dual LED displays and loud tick rate indicates relative concentration levels
- The Informant® 2 leak detector is a modular system which is totally upgradable. Order the complete dual system or choose dedicated refrigerant or combustible gas units and upgrade to the dual configuration at any time in the future.
- Lifetime warranty available

Leak Detection

Informant® 2 (continued)

Specifications

Sensing Elements:	
Refrigerant	Heated Diode - U.S. Patent No. 5,932,176
Combustible	Patented semiconductor type. Five year typical life. Plug-in replacement
Refrigerants Detected:	All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123, R-134a and blends R-404A, R-408A, R-409A and R-410A (i.e., any refrigerant containing Chlorine, Flourine or Bromine gas)
Combustible Gases Detected:	All combustible gases and vapors
Alarm Sensitivity:	
Refrigerant	Less than 0.25 oz/yr of R-134a (hardest to detect refrigerant)
Combustible	Minimum 50ppm (Methane)
Alarm Types:	Audible, dual visual LED's and flashing probe tip
Power Source:	Four (4) AA disposable alkaline batteries included
Warm-up Time:	10 seconds
Response Time:	
Refrigerant	Instantaneous
Combustible	Instantaneous
Battery Life:	4-5 hours, under typical intermittent operation
Probe:	20" (50.8 cm) maximum length, fully extended; 3" (7.62 cm) if wrapped around instrument. Includes LED indicator
Size:	1.75"W x 9.62"L x 2.25"H (4.45 cm x 24.43 cm x 5.72 cm)
Weight:	0.86 lbs. (0.39 kg) with batteries
Agency Approvals:	
Refrigerant	UL listed in accordance with SAE J1627
Combustible	MET Lab certified to UL 913, intrinsically safe for use in Class1, Division 1, Group D hazardous areas
Warranty:	One year, including sensors

Ordering Information

ServiceFirst Item #	Mfg. #	Description
TOL02689	19-8038	Informant® 2 Contractor Kit. Instrument comes with refrigerant and combustible gas sensors, color-coded sensor tips, instruction manual, 4 AA batteries, filters and a hard carrying case.
TOL02706	19-8042	Dual Refrigerant/Combustible Informant® 2 Detector Kit. Instrument comes with refrigerant and combustible gas sensors, color-coded sensor tips, instruction manual, 4 AA batteries, 5 filters and a custom soft carrying case.
TOL02703	19-8045	Dual Deluxe Refrigerant/Combustible Informant® 2 Detector Kit. Instrument comes with refrigerant and combustible gas sensors, color-coded probe tips, protective rubber boot, flashlight, instruction manual, 6 AA batteries and 5 filters, all packaged in a hard carrying case.
SEN01377	19-0499	Replacement combustible sensor
SEN01347	19-0510	Replacement refrigerant sensor
FLR06598	19-0509	Replacement filters (5-pack)

Refrigerant Recovery Units

FM3700 Heavy Duty Commercial Recovery Unit



Features

- 3/8" ports for faster, high-volume refrigerant recovery
- Recovers ALL commonly used refrigerants, including R-410A (Puron™)
- 450 PSI high pressure cut-off, high pressure gauges
- High performance compressor
- Rugged and reliable
- Automatic shut-off when evacuation is completed

Specifications

Refrigerants	All Refrigerants except R-11, R-113 and R-123
Power Source	115 VAC 50/60 Hz, 230 VAC 50/60 Hz, 100 VAC 50/60 Hz
Compressor	1 horsepower twin piston, high performance, oil-less
Vacuum Rating	13" Hg+
High Pressure Limit	450 PSI (31.0 bar)
Recovery Rate	.50 - 4.0 lbs./min. vapor, 8.0 lbs./min. liquid 0.23 - 1.81 Kg/min. vapor, 3.63 Kg/min. liquid
Auto 80% Tank Shut Off	Optional
Self Purging System	No hose changes
Weight	47 lbs. (21.3 Kg)
Dimensions	12" x 14.25" x 8.75" (30.5cm x 36cm x 22cm)

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02795	2000-3700	FM3700 Commercial Recovery Unit
TOL02747	2000-3701	FM3700 Commercial Recovery Unit with 80% shut-off

FM3600-410A Commercial Recovery Unit



Features

- Recovers ALL commonly used refrigerants, including R-410A (Puron™)
- 550 PSI high pressure cut-off, high pressure gauges
- LED system status display
- Rugged and reliable
- Automatic shut-off when evacuation is completed

Specifications

Refrigerants	All refrigerants except R-11, R-113 and R-123
Power Source	115 VAC 50/60 Hz, 230 VAC 50/60 Hz, 100 VAC 50/60 Hz
Compressor	0.5 HP high performance, oil less
Vacuum Rating	13" Hg+
High Pressure Limit	550 PSI (37.9 bar)
Recovery Rate	.30 - 2.0 lbs./min. vapor, 4.0 lbs./min. liquid 0.14 - 0.91 Kg/min. vapor, 1.81 Kg/min. liquid
Auto 80% Shut-Off	Optional
Self Purging System	No hose changes
Weight	35 lbs.
Dimensions	12" x 13" x 7.5" (30.5cm x 33cm x 19cm)

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02796	2000-3600	FM3600-410A Commercial Recovery Unit
TOL02746	2000-3601	FM3600-410A Commercial Recovery Unit with 80% shut-off

Refrigerant Recovery Units

Stinger



The improved Stinger, with its new compressor, will evacuate refrigeration systems faster than ever. The new compressor, coupled with increased condenser capacity, will speed up the recovery process, even on the hottest days. The Stinger's rugged construction will provide you with many seasons of reliable operation. The Stinger is capable of recovering all commonly used* CFC, HFC and HCFC refrigerants, including R-410A (Puron™). The unit is easy to operate and is ideal for evacuating both residential and light commercial systems. A simple purge system prevents cross-contamination of refrigerants without changing hoses.

*Not for use with R-11, R-113 or R-123

New Compressor

- Lower cost of ownership - new compressor is virtually maintenance free
- 243% larger compressor piston enables faster recovery
- Unlike competitive units, the new and improved Stinger is capable of pulling a vacuum for an extended period of time without damaging the compressor
- The new compressor is capable of running continuously on air for more than 1,000 hours

Features

- Lightweight and compact - weights only 24 pounds
- New compressor provides a 20% increase in vapor recovery rate
- Recovers all commonly used CFCs, HFCs and HCFCs, including R-410A (Puron™)
- Capable of pumping virgin refrigerant without damaging the compressor
- 1 year over the counter warranty replacement

Specifications

Refrigerants	R-12, R-22, R-114, R134a, R-401A, R-401B, R-401C, R-402A, R-402B, R-404A, R-406A, R-407A, R-407B, R-407C, R-407D, R-408A, R-409A, R-410A, R-411A, R-411B, R-412A, R-500A, R-502B, R-507, R-509
Power Source	110/120 VAC, 1 Phase, 50/60 Hz, 8 Amps
Also Available	220 VAC, 1 Phase, 50/60 Hz, 4 Amps
Compressor Type	0.8 HP High Performance Oil-less
Vacuum Rating	15" Hg+
High Pressure Limit	550 PSI (37.9 bar)
R-22 Recovery Rates (Cert. Per ARI 740-98)	Liquid: 3.88 lbs. / min. (1.76 kg / min.) Vapor: 0.33 lbs. / min. (0.15 kg / min.) Liquid Push / Pull: 14.00 lbs. / min. (6.35 kg / min.)
Auto 80% Tank Shut-Off	Optional
Self Purging System	No Hose Changes
Weight	24 lbs. (11 kg)
Dimensions	11"H x 17"L x 9.5"W (28 cm x 43 cm x 24 cm)
Approvals	Complies with UL 1963
Certifications	Meets EPA requirements for recovery equipment Conforms to ARI standard 740-98

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02745	2000-3300	STINGER 115 VAC

Vacuum Pump / Swaging Kit / Charging Scale

Vacuum Pump



Features

- Two stage rotary vane pump
- 1/4" and 3/8" fl are and 1/2" ACME intake ports
- Light, compact and well balanced
- High performance vacuum, HP and CFM ratings for all AC/R applications
- One year warranty

Specifications - QV2

Voltage	110V/60Hz
Free Air Displacement	1.7 CFM
Ultimate	0.03 mbar
Vacuum	15 Micron
Motor	1/4 HP
Motor Speed	1720 rev/min
Oil Capacity	350 ml
Dimensions	358 x 172 x 290 (mm)
Weight	9.8 Kg (21.56 lbs)

Specifications - QV5

Voltage	110V/60Hz
Free Air Displacement	5.3 CFM
Ultimate	0.03 mbar
Vacuum	15 Micron
Motor	1/2 HP
Motor Speed	3450 rev/min
Oil Capacity	450 ml
Dimensions	358 x 180 x 300 (mm)
Weight	12 Kg (26.4 lbs)

Flaring, Swaging and Cutting Kit



Features

- Most complete kit on the market
- 1/8" - 1-1/8" Tube Cutter
- Flaring tool flares 1/8" to 3/4" tubing
- AC Ratchet Wrench with 3/16", 1/4", 5/16" and 3/8" square sockets
- Five swaging heads sizes 3/16" to 3/4"
- Kit comes in a convenient plastic molded case

Electronic Refrigerant Scale Model CS100



Features

- Auto Zero feature
- Tethered display with flip-up stand
- Adjustable leveling feet with built-in level indicator
- Handles a wide range of recovery cylinders up to 330 lbs (150 kg)
- Auto power-off feature prevents accidental battery drain

Specifications

Units	Lbs. / Lbs. - Oz. / Kg
Resolution	0.05 lbs / 0.05 oz / 20 g
Accuracy	± 1% of reading
Capacity	330 lbs (150 kg)
Platform Dimensions	11"L x 11"W x 2"H (27.9cm x 27.9cm x 5.1cm)
Power Supply	9-volt battery (included)

Ordering Information

ServiceFirst Item #	Mfg. #	Description
PMP01742	2002-0001	QV2 Vacuum Pump
PMP01743	2002-0005	QV5 Vacuum Pump
TOL02773	2002-6500	Flaring, Swaging and Cutting Kit
TOL02770	2010-0000	Electronic Refrigerant Scale

Digital Multimeter (DMM)

Pocket Digital Multimeter



Features

- 4 functions
- Compact DMM with built-in case for leads
- Auto power off
- Data-hold function
- Battery check function
- Auto-range
- Over-range and low batter indication
- Includes batteries, test leads and 1-year warranty

Specifications

Functions	1. Volts 2. Amps 3. Ohms/Continuity 4. Diode Test
Display Count	4000
DC V	400mV / 300V
DC A	400mA
AC V	300V
AC A	N/A
Resistance	40M
Capacitance	N/A Ω
Frequency	N/A
Temperature	N/A
CE or UL Listed	Both

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02778	2002-0900	MMP900 Pocket Digital Multimeter

Manifolds and Hoses

Manifold Set with Sight Glass, R12/22/134a



Model No. MS040, R-12/22/134a

- Brass body with hook, hose holder and 2 hand wheels
- Includes 3 pieces 60" RYB hoses with 1/4" flare fittings. Hoses rated at 2500 psi.Burst / 500 psi Max W.P.
- 0-250 / 0-500 psi Gauges

Manifold Set with Sight Glass, R-410A



Model No. MS430, R-410A

- Brass body with hook, hose holder and 2 hand wheels
- Includes 3 pieces 60" RYB hoses with 1/4" flare fittings. Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- 0-500 / 0-800 psi Gauges

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
MFD01160	2002-4000	Manifold Set with Sightglass, R-12/22/134a, Model MS040
MFD01161	2002-4300	Manifold Set with Sightglass, R-410A, Model MS430

Ball Valve Hose Set, R-12/22/134a



Model No. BV3, R-12/22/134

- 3 pcs 6" RYB hoses with 1/4" flare fittings
- Hoses rated at 2500 psi Burst / 500 psi Max W.P.
- Hoses compatible with Manifold Set models MS050 and MS040

Ball Valve Hose Set, R-410A



Model No. HS460, R-410A

- 3 pcs 60" RYB hoses with 1/4" flare fittings
- Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- Hoses compatible with Manifold Set models MS050, MS040, MS440 and MS430

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
HSE01529	2002-0003	Ball Valve Hose Set, R-12/22/134a, Model BV3
HSE01527	2002-4600	Ball Valve Hose Set, R-410A, Model HS460

Manifolds and Hoses

Ball Valve Hose Set, R-410A



Features

- 3 pcs 60" RYB hoses with 1/4" flare fittings
- Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- Compatible with manifold sets

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
HSE01350	2002-0040	Ball Valve Hose Set, R-410A, Model BV410A

Multi-Refrigerant Vacuum Hose

Features

- All refrigerant vacuum hose
- 3/8" straight yellow
- 60" length
- For use with 4 port manifold block

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
HSE01528	2002-4650	Multi-Refrigerant Vacuum Hose

4-Port Manifold



Features

- H.D. aluminum block
- 3/8" vacuum port fitting
- 1/4" flare hose fittings
- Protected gauges
- H.D. hanging hook
- Colour coded easy grip handles for positive control

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
MFD01162	2002-4350	4-Port Manifold, R-410A
MFD01163	2002-4375	4-Port Manifold, R-22/12/134a

Gauges

R-12/22/134a Gauges



Specifications

Model	MSG250	MSG550
Dial Size	2 1/2"	2 1/2"
Connection	1/8 NPT	1/8 NPT
Scale	°F, PSI, kg/cm ²	°F, PSI, kg/cm ²
Pressure	250 psi	500 psi
Color	Blue	Red

Ordering Information

ServiceFirst

Item #	Mfg. #	Description
GAG01066	2002-0250	MSG250, R-12/22/134a
GAG01067	2002-0550	MSG550, R-12/22/134a

R-410A Gauges



Specifications

Model	MSG410	MSG420
Dial Size	2 1/2"	2 1/2"
Connection	1/8 NPT	1/8 NPT
Scale	°F, °C, PSI, kg/cm ²	°F, °C, PSI, kg/cm ²
Pressure	500 psi	800 psi
Color	Blue	Red

Ordering Information

ServiceFirst

Item #	Mfg. #	Description
GAG01068	2002-0410	MSG410, R-410A
GAG01069	2002-0420	MSG420, R-410A

Service Tools

Refrigeration Wrenches



TOL02780, 2002-0122

Model #HTRW122

- 4 square openings
- 3/16", 1/4", 5/16", and 3/8"

TOL02781, 2002-0123

Model #HTRW123

- 3/16" and 1/4" square openings
- 1/2" and 9/16" hex openings

PVC Pipe Cutter



TOL02771, 2002-2120

Model #HT212

- Up to 1 5/8" capacity

Spring-Type Tubing Benders



TOL02772, 2002-1434

Model #HT1434

- 6 per pack
- Sizes 1/4" x 10" long;
- 5/16" x 10"; 3/8" x 10"
- 1/2" x 12"; 5/8" x 14";
- 3/4" x 14"

Telescopic Mirror Set



TOL02779, 2002-0300

Model #HT31M

- Set of 4 mirrors
- Circular lens 1 1/4" Dia.,
- 4 3/4" to 19 1/2" extension
- Circular lens 2" Dia.,
- 8 1/2" to 18" extension
- Rectangular lens 2" x 3 1/2",
- 8 1/2" to 19 1/4" extension
- Oval lens 1" x 2"
- 4 3/4" to 20 1/4" extension

Service Tools and Meters

Tubing Cutter



Features

- 1/8" to 1 1/8" O.D.
- Aluminum alloy body with chrome-plated finish
- Includes 1 spare cutter wheel

Tamper Evident Straps



Features

- Protect against contamination
- Guard against unqualified repairs
- Warranty repairs with confidence
- Individually serial numbered

Anemometer



Features

- Ft/min: 0-8800
- Coiled Cable Vane Head
- Temperature: 32°F ~ 140°F (0°C ~ 60°C)
- Data hold and low battery indication
- Sensitive for low/high air velocity
- Also measures Km/hr, Knots, M/S
- Includes soft carrying case and battery

Ordering Information

ServiceFirst		
Item #	Mfg. #	Description
TOL02774	2002-1818	Tubing Cutter, Model No. HT1818
SRP00919	2003-000	Tamper Evident Service Strap
TOL02775	2042-0000	Anemometer, Model No. TH4200









Literature Order Number	RSP-PRC036-EN
Filing Hierarchy	Service Products/Tools and Test Equipment/Test Instruments
Date	February 2006
Supersedes	New
Stocking Location	Print on Demand

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.