

HVAC/R SERVICE TOOLS

YELLOWJACKET.COM EDITION 70























For over 70 years, the YELLOW JACKET® name has been synonymous with quality products and service in the HVAC/R industry.

It all started back in 1946, when the late Jack Ritchie founded Ritchie Engineering Company in Minneapolis, Minnesota as a fabrication/manufacturer's representative organization. Jack worked hard and in 1949 he created a high-quality charging hose. Jack picked yellow for the color of the hose – which later became the industry standard for refrigerant. The color stuck with Jack and inspired the name YELLOW JACKET®. Today, that hose is known as the YELLOW JACKET® Charging Hose and remains the best-selling refrigeration recovery hose in the industry for almost 70 years.

"While a lot has changed in the last 70 years, but one thing has remained the same...our philosophy of providing HVAC/R professionals the quality products they need, at a competitive price, with fast delivery and dependable follow-up," said Tom Ritchie, President and CEO.

Since the launch of its first charging hose, YELLOW JACKET® has continued to innovate and expand its line of recovery and service tools. While the brand has sold hundreds of thousands of its namesake hose, YELLOW JACKET® has set the bar within the HVAC/R industry with innovative digital manifolds, tubing tools, vacuum pumps, leak detectors, recovery units, electronic instruments and a line of automotive recovery products.

YELLOW JACKET® remains dedicated to its philosophy of creating quality products which are made with exacting standards. Products are carefully assembled by highly-skilled workers at our manufacturing facility, who do everything from producing the smallest coupler to bagging the final packaging. Every shipment is double-checked by weight before shipping out the door.

From its humble beginnings, the YELLOW JACKET® brand has continued to grow and innovate while still a family business, owned and operated by Tom & Kristen Ritchie. YELLOW JACKET® products are now available worldwide.

As we look towards the future, we recognize the need for sustainable solutions to a myriad of challenges. When it comes to product development, packaging, shipping and manufacturing, we are committed to evaluate all options towards the goal of smaller environmental impact while maintaining our innovative edge.







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YJACK® Series sensors work together to provide a total HVAC/R diagnostics solution with wireless convenience. Coupled with the P51 TITAN® Digital Manifold, the user has all the necessary information for complete system diagnostics.



P51 TITAN® DIGITAL MANIFOLDS



Accurate measurements, analysis and reporting in your hands, and Bluetooth® capability to put them at your fingertips.

The YELLOW JACKET® P51 TITAN® Digital Manifold Series provides ultimate system measurements with ease. This 4-valve manifold provides fast and accurate measurements for refrigeration and a/c systems. Measurements are displayed on a backlit digital display and can be transmitted via Bluetooth® to a Smartphone for even further analysis. Local display of system pressures and temperatures, superheat and subcool provide instant analysis. When connected to your Smartphone, target superheat and subcool are easily attained, along with all other capabilities of the YJACK VIEW® or the ManTooth® app.

The flagship YELLOW JACKET® P51-870 TITAN® features a 4.3" full color touchscreen graphic display with digital and graphical representation of pressure and temperature measurements. It also features on-board data logging and standard vacuum sensor and measurements (vacuum sensor included). A 4-pack of hoses is included as well as two temperature clamps and a backpack carrying case for safe storage.

P51-870 TITAN® ADDITIONAL FEATURES AND BENEFITS

- 4.3" full color touch screen display
- · Digital and graphical representation of pressure and temperature measurements
- Vacuum sensor included
- Set of four manifold hoses included: (3) 1/4" RYB and (1) 3/8"yellow vacuum hose
- (2) temperature clamps included
- · Backpack carrying case included
- · Wirelessly measure and display relative humidity, dry bulb, wet bulb and dew point temperature alongside system pressure and temperature measurements (requires separate purchase of YJACK DEW® PN 67063)



P51 TITAN® SERIES FEATURES & BENEFITS

- · Measures high and low side pressures and temperatures
- Displays vapor and liquid saturation temperatures
- System superheat and subcooling calculations
- On board data logging; export to your computer via USB
- YJACK VIEW® app used with 40870, 40875 and 40877; ManTooth® app used with 40860
- Bluetooth® capability
- Pressure hold mode displays rate of change for both vacuum and positive pressure measurements
- 4-way TITAN® valve block
- 126 refrigerant profiles stored in the instrument including new blends not currently in the REFPROP database
- · Backlit display with auto-dimming
- Auto shut-off
- Includes two temperature clamps
- · Optional vacuum sensor available (included with P51-870)
 - · Vacuum measurements, targets and leak testing
 - High and low alarm
- · Re-chargeable battery with battery life indicator
 - · Continuous use no backlight: 80 hours
 - Continuous use full backlight: 5 hours (40860) 4 hours (40870)
- US and International units (bar, psia, psig, kPa, MPa, kg/cm²)
- Maximum working pressure 700 psia (48.3 bar)
- · USB charging port
- IP52 certified
- · Robust housing
- Two-year warranty
- Made in the USA





40870 INCLUDES:

- Vacuum sensor (P/N 67044)
- Set of four manifold hoses: (3) 60", 1/4" RYB (P/N 21985) and (1) 60", 3/8" yellow vacuum hose 3/8" straight x 3/8" 45° (P/N 18160)
- (2) temperature clamps (P/N 67010)
- USB charging cable
- Backpack carrying case (P/N 10146)



40875 INCLUDES:

- Vacuum sensor (P/N 67044)
- Set of (6) 60" manifold hoses: (3) RYB compact ball valves (P/N 29985); (1) Y 3/8" str x 3/8" 45° (P/N 18160); (2) compact ball valve 1/4" x 5/16" (P/N 29425 and 29465)
- (2) temperature clamps (P/N 67010)
- USB charging cable
- Backpack carrying case (P/N 10146)



40877 INCLUDES:

- Vacuum sensor (P/N 67044)
- Set of (6) 60" manifold hoses: (3) RYB compact ball valves (P/N 29985); (1) Y 3/8" str x 3/8" 45° (P/N 18160); (2) compact ball valve 1/4" x 5/16" (P/N 29425 and 29465)
- (2) YJACK® temperature clamps (67061)
- USB charging cable
- Backpack carrying case (P/N 10146)

YJACK VIEW® APP FEATURES

- All the great features of the ManTooth® app
- Measure HVAC/R system pressure, temperature, saturation temperature, superheat and subcooling
- Monitor system evacuation status
- · Check indoor air comfort and system efficiency with psychrometric air calculations: Percent relative humidity, dry bulb, wet bulb and dew point temperature measurements
- Monitor status of all nearby YJACK® and P51-870 TITAN® devices
- Customize data view for each measurement
- · Freely switch between multiple simultaneous sessions without loss of data
- · Create highly customized datalogs which can be saved or emailed from your smart device
- Choose from 126 refrigerant profiles found in the REFPROP database

P51-860 TITAN® Digital Manifold

P51-870 TITAN® Digital Manifold

40844 P51 TITAN® Replacement Micro-USB Board

• Available on iOS (version 10 or later) and Android (version 8 or later) smart devices

ManTooth® APP FEATURES

- · Check target superheat and subcool by setting dewpoint and bubble point
- · Additional monitoring, data logging and report generation
- · Generates datalog file
- Available in English, French, Spanish, Dutch and German
- · Data logging to record and document values during servicing
- Improved connectivity and reconnect process if signal is lost
- Ability to download logged data for graphing in Excel
- · For iOS and Android devices
- Backwards compatible with existing ManTooth® devices (excluding vacuum gauge)

APPLICATIONS

- AC&R System Evaluation
- Evacuation
- Charging/Recovery
- · Leak Testing



Vacuum Screen

P/T Screen

temperature clamps, ball valve and 5/16" hoses

UPC # Description

40860

40870

40875

40877

Optional/Replacement Parts
Vacuum Sensor
Backpack
Temperature Probe Clamp
YJACK [™] Temperature Clamp (wireless)
(3) 60" RYB (Standard Fittings); (1) 60" Y (3/8" str x 3/8" 45° Quick Coupler)
60" Yellow, 3/8" straight x 3/8" 45°, PLUS II™ "B"
60" 3 pak, standard fitting, PLUS II™ 1/4" hose
60" 3 pak, compact ball valve, PLUS II™ 1/4" hose
60" Blue, compact ball valve (1/4" x 5/16")
60" Red, compact ball valve (1/4" x 5/16")

P51-870 TITAN® Digital Manifold with ball valve, 5/16" hoses

P51-870 TITAN® Digital Manifold with (2) YJACK® wireless







1.4

YJACK® WIRELESS PROBES FOR A MORE CONNECTED TECH



The YJACK® Series is a network of devices that form a new platform offering a total HVAC/R diagnostics solution. Multiple devices can measure system and environmental parameters, providing a complete picture of a system's condition.

Each device utilizes Low Energy Bluetooth® (BLE) technology to interconnect with each other and any smart device, Android™ or iOS. Many of the YJACK® Series devices can also communicate directly with the P51-870 TITAN® Digital Manifold simultaneously.



- Customized PDF service reports
- Supply and return air enthalpy
- System heating/cooling efficiency
- System Energy Efficiency Ratio (EER)

The YJACK VIEW® App provides ease of access to all information measured by the YJACK® Series of devices and P51-870 TITAN®.



Wireless Probes for a Total HVAC/R Diagnostic Solution.



YJACK® SERIES OVERALL FEATURES:

- Compatible with YJACK VIEW® App and P51-870 TITAN® devices (firmware version v4.0 or later) [YJACK MANO® not compatible with P51-TITAN® Digital Manifold]
- Bluetooth® 4.2 compliant low
- 400 ft. line-of-sight signal range
- Rapid response time

energy radio

· Rotating mounting magnet for optimal Bluetooth® transmitter placement (not applicable on YJACK PRESS® and YJACK VAC®)



- IP52 rated
- Two-year warranty



YJACK DEW® Psychrometer 67063

- Measures percent relative humidity, dry bulb temperature, wet bulb temperature and dew point temperature
- · Features 8" flexible steel wand
- · Optimized sensor housing for increased air exchange and better response time

YJACK PATH® Range Extender 67060

- Connects and rebroadcasts up to (6) YJACK® probes and (2) P51-870 TITAN® Digital Manifolds
- · Adds up to additional 400 ft. line-ofsight signal range per device
- Amplifies signal strength through difficult to penetrate barriers



YJACK® Temperature Clamp 67061

- Measures surface temperature of pipes up to 1.25" diameter
- Temperature clamp provides strong, secure connection to system
- · Flexible cable connection for easy access



YJACK® Temperature Strap 67062

- Measurements for surface temperature of pipes up to 6" diameter
- · Quick release latch
- Elastic strap for secure connection

YJACK MANO® Dual Port Manometer 67068

- Static pressure measurements up to +/- 80 inches of water column
- Pressure probe tips and adapters included for accurate duct and gas pressure measurements
- Accurately measure pressure drop with included static pressure tips
- · Display readings on the local display or remotely with the YJACK VIEW® App (v4.0+)
- Soft case for convenient storage





YJACK PRESS® Pressure Gauge 67065

- System pressure measurement up to 725 psig (50 bar)
- Integrated charging port to easily adjust refrigerant charge
- Working Pressure: -14.7 to 725 psig (-1.01 to 50 bar gauge)



YJACK VAC® Vacuum Gauge 67066

- System vacuum meaurement from atmospheric pressure to 1 micron
- Robust sensor resists pressure shock and oil contamination
- Electronic display for clear visibility – even in direct sunlight



YJACK AMP® Current Probe 67067

- Current measurement up to 50 Amps AC
- Current Sensor Accuracy: +/-1% of reading or +/- 0.15 amps
- Measures inrush current to analyze hard starts and to troubleshoot blown fuses



YJACK VIEW® HIGHLIGHTS:

- Compatible with all YJACK® and P51-870 TITAN® devices (firmware version v4.0 or later)
- Freely navigate between available session types and multiple sessions at one time
- Psychrometric System Efficiency and Leak Test sessions and communication capabilities with YJACK PRESS®, YJACK VAC® and YJACK AMP® in v3.0+; YJACK MANO® update to v4.0+
- Easily place and monitor status of all YJACK® and P51-870 TITAN® devices from one screen
- Adjustable datalog formatting, multiple sampling intervals
- Generate customized and detailed service reports capturing system readings and equipment information



YJACK VIEW® SMART APPLICATION:

- · Measure HVAC/R system pressure, temperature, saturation temperature, superheat and subcooling
- · Monitor system evacuation status
- Check indoor air comfort and system efficiency with psychromeric air calculations: percent relative humidity, dry bulb, wet bulb and dew point temperature measurements
- Perform system leak tests and track pressure change over time
- Measure system charge with scale weight readings during charging and recovery operations
- Take electrical current measurements and analyze critical system power information
- · Identify duct pressure changes and measure regulator gas pressures
- Generate highly customized and detailed service reports capturing system readings and equipment information
- Monitors the status of all nearby YJACK® and P51-870 TITAN® devices
- · Freely switch between multiple simultaneous sessions without loss of data
- · Customize data view for each measurement
- Create data logs to be saved or emailed from your smart device
- Choose from 126 refrigerant profiles found in the REFPROP database
- Available on iOS (version 10 or later) and Android[™] (version 8 or later) smart devices

CREATE SERVICE REPORTS NEW

Service report feature creates highly customizable PDF reports of system measurements and service information while storing previous jobs and reports.

ENHANCED DATA LOGGING

Record data from one or all current session types. Choose from a variety of sampling rates depending on user need. Live updates to selected devices, units, elevation and refrigerant selection appended to existing data logs. Start and stop data logging at will - save for later or share via email for remote analysis.

STATIC PRESSURE SESSION NEW

Displays pressure readings from YJACK MANO® for measurement of duct pressure changes and regulator gas pressure.



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	13
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~ Filter Pressure Dro	

PRESSURE / TEMPERATURE NEW

View system pressure and temperature data as reported by any combination of YJACK PRESS® devices, temperature devices or P51-870 TITAN® units. Easily select and favorite commonly-used refrigerants for calculating system properties including saturation temperatures and calculated system superheat/subcooling. Effortlessly manipulate data view types, including traditional large numeric format, analog gauge (pressure only) or graphically.

PSYCHROMETRIC SYSTEM EFFICIENCY NEW

Analyze psychrometric data reported by (2) YJACK DEW® devices. Ensure maximum comfort through wireless supply and return relative humidity, dry bulb, wet bulb, dew point temperatures and enthalpy calculations. Compare system-rated capacity to actual output for overall system efficiency. View available data as traditional large numeric format or graphically.

EVACUATION NEW

Monitor system vacuum as reported by a P51-870 TITAN® external wired vacuum sensor or the YJACK VAC® Wireless Vacuum Gauge. Data can be displayed as traditional large numeric format, analog gauge or graphically. Adjustable vacuum pressure target and hold timer ensures all non-condensable gases are removed from the system during evacuation.

LEAK TEST NEW

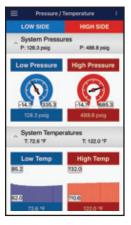
Monitor pressure changes during nitrogen leak testing to verify that system is tight. View system pressure trends as traditional large numeric format or graphically.

CHARGING & RECOVERY

Display scale readings from the Wireless Charging Scale (P/N 68864) to accurately charge systems or to determine system charge amount through recovery.

ELECTRICAL NEW

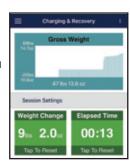
from YJACK AMP® Wireless Current Probe while calculating power draw and system Energy Efficiency Ratio (EER).







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Electrical session displays readings





67074 **YJACK® Charging & Evacuation Kit NEW**



YJACK VIEW® APP SUPPORTED YELLOW JACKET® DEVICES:

67072

Kit NEW

YJACK® Charging

- P51-870 TITAN® Digital Manifold
- YJACK PATH® Range Extender
- YJACK PRESS® Pressure Gauge
- YJACK VAC®Vacuum Gauge
- YJACK AMP® Current Probe
- YJACK® Temperature Clamp
- YJACK® Temperature Strap
- YJACK DEW[®] Psychrometer
- YJACK MANO® Manometer
- · Wireless Refrigerant Scale (P/N 68864)

YJACK VIEW® App Apple/App Store



☐iPhone ☐iPad

YJACK VIEW® App Android™/Google Play







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P51-870 TITAN® DIGITAL MANIFOLD KIT WITH YJACK® TEMPERATURE CLAMPS

40877 KIT INCLUDES:

67073

YJACK® Charging

& Air Kit NEW

- Vacuum sensor (P/N 67044)
- Set of (6) 60" manifold hoses:
 - (3) RYB compact ball valves (P/N 29985)
 - (1) Y 3/8" str x 3/8" 45° (P/N 18160)
 - (2) Compact ball valve 1/4" x 5/16" (P/N 29425/29465)
- (2) YJACK® Temperature Clamps (P/N 67061)
- USB charging cable
- Backpack carrying case (P/N 10146)



UPC#	Description
67060	YJACK PATH® Range Extender
67061	YJACK® Temperature Clamp
67062	YJACK® Temperature Strap
67063	YJACK DEW® Psychrometer
67065	YJACK PRESS® Pressure Gauge NEW
67066	YJACK VAC® Vacuum Gauge NEW
67067	YJACK AMP® Current Probe NEW
67068	YJACK MANO® Dual Port Manometer NEW
67070	YJACK®Temperature Clamp Kit: (2) YJACK®Temperature Clamps, (1) YJACK PATH®
67071	YJACK®Temperature/Humidity Kit: (2) YJACK®Temperature Clamps, (2) YJACK DEW® Psychrometers, (1) YJACK PATH®
67072	YJACK® Charging Kit: (2) YJACK PRESS® Pressure Gauges, (2) YJACK® Temperature Clamps NEW
67073	YJACK® Charging & Air Kit: (2) YJACK PRESS® Pressure Gauges, (2) YJACK® Temperature Clamps, (2) YJACK DEW® Psychrometers NEW
67074	YJACK® Charging & Evacuation Kit: (2) YJACK PRESS® Pressure Gauges, (2) YJACK® Temperature Clamps, (1) YJACK VAC® Vacuum Gauge NEW
40877	P51-870 TITAN® Digital Manifold with (2) YJACK® Temperature Clamps, Ball Valve and 5/16" Hoses

ManTooth® WIRELESS VACUUM **GAUGE AND P/T GAUGE COMBINATION**



The YELLOW JACKET® ManTooth®-PTV (67023) shown above provides vacuum and high- and low-side P/T readings. This full set includes dual non-tethered pressure/temperature gauges, two wired temperature clamps, and one interchangeable vacuum gauge. The single ManTooth®-PTV (67021) can be combined with an existing ManTooth® P/T device (67001) for adding wireless vacuum capability and/or expanding it to a full system analysis tool. Simply update your ManTooth® P/T app to version 2.0, connect to the 67020 hardware, and you're ready to go!

To enable mounting on 5/16" systems, add coupler 19221 (90°) or 19121 (straight).



Product Features:

- Interchangeable/removable vacuum gauge
- Easy-to-clean vacuum sensor
- Built-in Schrader cores for easy refrigerant charging
- Operates with and without hoses attached
- Two year warranty
- High impact glass reinforced housing
 - Rechargeable LiPo battery for long battery life
- Robust/rugged vacuum sensor
- Integral magnet for mounting on framework
- Integrated rubber side grip for easy handling

App Features:

- Available in English, French, Spanish, Dutch, and German
- Data logging to record and document values during servicing
- Improved connectivity and reconnect process if signal is lost
- Ability to download logged data for graphing in Excel
- For iOS and Android™ devices
- Backwards compatible with existing ManTooth® devices (excluding vacuum gauge)

UPC#	Description
67020	ManTooth®-V (Vacuum only) with side grip
67021	ManTooth®-PTV Single with side grip
67023	ManTooth®-PTV Dual with side grip
69030	Vacuum Sensor Cleaning Kit
UPC#	Replacement Parts
67044	Vacuum sensor
67012	USB cord
67014	Carrying case
93394	Tether cap
19020	Hose gaskets (10 pak)
19121	Straight 5/16" Flare quick connect x 1/4" Male coupler
19221	90° 5/16" Flare quick connect x 1/4" Male coupler
19302	Valve depressor (10 pak)
19305	Schrader valve (10 pak)

Pressure/Temperature Specifications

Pressure Sensing Resolution 0.1 psi, 0.1 bar, 1 kPa, 0.001 MPa, 0.01 kg/cm²

Pressure Sensing Accuracy 0.5% of full scale at 25°C; 1% of full scale 55°F to 130°F; 2% of full scale -40°F to 248°F

Working Pressure 0 - 700 psia (48.3 bar)

Proof Pressure Tolerable pressure without internal damage 1000 psia Burst Pressure Tolerable pressure without loss of seal 1500 psia

Sensing element: -40°F to 266°F (-40°C to 130°C); Max Cord temp: 176°F (80°C); Max Clamp Temp: 203°F (95°C) Temperature Sensor Range (Instrument)

Temperature Display Resolution 0.1°F or °C Temperature Accuracy (Instrument) ±0.2°C (±0.36°F)

-4°F to 160°F (-20°C to 71°C) Limited by battery Working Temperature

Storage Temperature -4°F to 160°F (-20°C to 71°C) - for best battery performance do not store at over 100°F (38°C)

Working Humidity 0-95% RH (non-condensing)

IP Class IP 50 Bluetooth Range 70-90 ft. (Class 1) or 30-40 ft. (Class 2) in most cases (varies depending on the Bluetooth capability

of smart device used). Under perfect conditions (clear line of sight and low interference)

communications can extend up to 300 feet.

Bluetooth Radio Class 1 Bluetooth 2.1 Radio

6" long x 1.6" wide x 2.3" thick (15.3 x 4 x 5.8 cm); 0.5 lbs (225 grams) Size and weight

Superheat and Subcool Automatically calculated by the ManTooth App

Max. and Min. Pressures Displays and records the maximum and minimum pressures Refrigerant Database 126 NIST refrigerant profiles included; upgradeable

Screenshot Feature Save pressure and temperature readings from your sessions; automatically organize

Temperature Sensors Capable of measuring 2 temperatures using high accuracy NTC thermistors Pressure Transducers 67001/67003 – one pressure transducer; 67002 – two pressure transducers System Attachment Very small internal volume minimizes refrigerant loss during system analysis

Pressure Zeroing Simple single button zeroing at the start of each session

Elevation Compensation Enter elevation at the start of the session for effortless psia compensation

Rechargeable LiPo battery for 10+ hours continuous life Battery

Vacuum Specifications

Cord Length Approximately 33" Magnet Strength 8 lbs. holding force Operational Temperature Range 10 - 122F 12 - 50C

Calibration Calibration standards traceable to NIST

Resolution .1 micron Instant Warm-Up Time and Response Time



0.1 psi, 0.1 bar, 1 kPa,

0.001 MPa, 0.01 kg/cm²

0.5% of full scale at 25°C;

ManTooth® WIRELESS DIGITAL PRESSURE/TEMPERATURE GAUGE



The YELLOW JACKET® ManTooth® Wireless Digital Pressure/ Temperature Gauge provides wireless connection to your smart device so you can test the system without losing refrigerant (no hoses or manifolds necessary)!

The free downloadable ManTooth® RSA app wirelessly calculates and displays the system's actual pressures, temperatures, superheat and subcooling in an easy-to-read color format on your iPhone®, iPad® or Android™ device.

Additional Features:

- Built-in Schrader ports to easily adjust refrigerant charge
- Range up to 400' (unobstructed)
- YELLOW JACKET® ManTooth® RSA app (free download)
- Two-year warranty
- Screenshot feature allows you to save pressure and temperature readings from your sessions which can be automatically organized by location and unit being serviced
- Share screenshots via e-mail right from your phone
- Easily track and store service history
- Rechargeable lithium polymer battery with 10 hours battery life

The ManTooth® Single Pressure Wireless Digital P/T Gauge includes a single hardware device and clamp. Two single units can be purchased in a case by ordering Part #67003.

For dual pressure readings, use two of the 67001 ManTooth® single pressure gauges or the 67002 ManTooth® Dual Pressure Unit which comes with a P/T module, tether unit and two temperature probe clamps. This unit also includes a convenient carrying case which can be purchased separately for the single pressure unit.

UPC#	Description
67001	ManTooth® Single Pressure Gauge (includes P/T Module with boot, temperature probe clamp, and USB cable)
67002	ManTooth® Dual Pressure Gauge Set (includes P/T Module and tether unit with boots, two temperature probe clamps, and USB cable in case)
67003	Two (2) ManTooth® Single Pressure Gauges (includes two P/T Modules with boots, two temperature probe clamps, and two USB cables in case)
UPC#	Replacement Parts
UPC# 67010	Replacement Parts Clamp
	· ·
67010	Clamp
67010 67012	Clamp USB Cord
67010 67012 67013	Clamp USB Cord Blue boot
67010 67012 67013 67014	Clamp USB Cord Blue boot Carrying case
67010 67012 67013 67014 93394	Clamp USB Cord Blue boot Carrying case Tether cap

Specifications:

Pressure Sensing Resolution

Pressure Sensing Accuracy

Working Pressure **Proof Pressure**

Burst Pressure

Temperature Sensor Range (Instrument)

Temperature Display Resolution Temperature Accuracy (Instrument) Working Temperature Storage Temperature Working Humidity IP Class Battery Life Range

Bluetooth Radio Size

Superheat and Subcool

Max. and Min. Pressures

Refrigerant Database

Screenshot Feature

Temperature Sensors

Pressure Transducers

System Attachment

Pressure Zeroing

Elevation Compensation

Battery

1% of full scale 55°F to 130°F; 2% of full scale -40°F to 248°F 0 - 700 psia (48.3 bar) Tolerable pressure without internal damage 1000 psia Tolerable pressure without loss of seal 1500 psia Sensing element: -40°F to 266°F (-40°C to 130°C) Max Cord temp: 176°F (80°C): Max Clamp Temp: 203°F (95°C) 0.1°F or °C ±0.2°C (±0.36°F) -4°F to 160°F (-20°C to 71°C) -4°F to 160°F (-20°C to 71°C) 0-95% RH (non-condensing) IP 50 10+ hours continuous 70-90 ft. (Class 1) or 30-40 ft. (Class 2) in most cases (varies depending on the Bluetooth capability of smart device used). Under perfect conditions (clear line of sight and low interference) communications can extend up to 300 feet. Class 1 Bluetooth 2.1 Radio 6" long x 1.6" wide x 2.3" thick (15.3 x 4 x 5.8 cm) 0.5 lbs (225 grams) Automatically calculated by the ManTooth App Displays and records the max and min pressures 98 NIST refrigerant profiles included; upgradeable Save pressure and temperature readings from your sessions which can be automatically organized by location and serviced unit Capable of measuring 2 temperatures using high accuracy NTC thermistors 67001/67003 - one 67002 - two Very small internal volume minimizes refrigerant loss during system analysis. Simple single button zeroing at the start of each session Enter at start of session for









effortless psia compensation

Rechargeable LiPo battery

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HYDROCARBON CHARGING KIT



The YELLOW JACKET® Hydrocarbon Charging Kit provides all the necessary tools to charge R-290 (propane) and R-600a (isobutane) hydrocarbon systems safely and effectively. The single valve manifold and small ID hoses allow for effective system pressure measurement while minimizing the impact on the system charge. The bottle valve and adapters offer compatibility with a variety of R-290 and R-600a refrigerant bottles.

Features:

- Compact charging scale provides 0.05 g (0.01 oz) resolution for accurate charging
- Bottle stand offers stability for liquid charging with inverted refrigerant bottles
- Single valve manifold with 0.08" (2mm) ID x 24" REFFLEX® hoses
- · Bottle valve for 7/16" threaded bottles
- Bottle adapter for 1" threaded bottles
- 90° quick-coupler fitting for compatibility with piercing and other right-angle bottle valves
- Line tap valve for system connection to 1/4", 5/16" or 3/8" process lines
- Vice grip pinch-off tool for crimping process tube after service is completed
- Safety placard provides visual warning of flammability risk during service
- Rugged case to protect the equipment when not in use
- One-year warranty



UPC #	Description
61001	Hydrocarbon Charging Kit
UPC #	Replacement Parts
19201	90° Quick Coupler (for right-angle bottle valves)
40349	Low-Side Manifold R-600a/290
49188	3-1/8", Blue Compound, bar/psi, R-600a/290 Gauge (°F/°C)
60661	Vice Grip Pinch-Off Tool
61002	HC Kit Bottle Stand
61003	HC Kit Scale
61004	HC Kit Manifold Assembly (manifold, hoses and connectors)
61005	HC Kit Hose (single 0.08"/2 mm x 24" yellow hose)
61008	HC Kit Bottle Valve (for 7/16" threaded bottle connections)
61009	HC Kit Bottle Adapter (for 1" threaded bottle connections)
61010	Line Tap Valve
61013	Propane Safety Placard

Specifications:

Overall Kit

Compatible Refrigerants: R-290 and R-600a

System Connections: 1/4", 5/16", 3/8" OD Tubing

Operating Temperature: 0° to 130°F (-18° to 55°C)

Operating Pressure: -14.7 to 101 psi (-1 to 7 bar)

Bottle Compatibility: Valve and adapter work with most 7/16" and

1" threaded bottle connections. The 19201 90° Quick Coupler allows for connection of piercing-type and other right-angle bottle

valves

Charging Scale

Capacity: 13.22 lb (6 kg)

Accuracy: 0.1%

Units of Measure: Grams (g), Pounds (lb), Pounds & Ounces (lb/

oz), Ounces (oz), Milliliters (ml)

Resolution: 0.01 oz (0.05 g)

Overload Protection: Yes

Power: (3) AAA Batteries (included)

Battery Life: 50+ hours

Auto-Off Timer: 2 minutes after last reading change

Hydrocarbon Single Valve Manifold

Pressure Range: -14.7 to 101 psi (-1 to 7 bar)

Refrigerants: R-290 and R-600a

(saturation temperatures in °F and °C)

Hose Length: 24" (610 mm)

Series 41 Hydrocarbon 2-Valve Manifold

Pressure Units: bar/psi
Refrigerants: R-290 and R-600a
(saturation temperatures in °F and °C)

Hose Length: 24" (610 mm)
Hose Fitting: Quick Coupler





UPC #	Description
41868	Series 41 Hydrocarbon 2-Valve Manifold with 24" (610 mm) RYB REFFLEX® Hoses
41867	Series 41 Hydrocarbon 2-Valve Manifold
61015	Hydrocarbon Hoses 24" (610 mm) RYB REFFLEX® 3 pak

NEW

ManCover® Manifold Cover

- · Large size fits most manifolds
- Rubber material for bounce protection while enroute to service calls
- Allows hoses to remain connected while protecting the gauge face from damage

1100 "	
UPC #	Description
49095	ManCover® Manifold Cover



NEW

TITAN® 4-VALVE TEST & CHARGING MANIFOLD °F and °C



Forged aluminum alloy body makes this unit lightweight for handling ease with the durability and reliability required for repeated use.

- Fourth hose to enable connection to hi-/losides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- 3/8" Vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings are 1/4")
- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges
- Front access for easy field recalibration
- Double "O" ring piston for reliability and long service life

- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Contoured easy-grip handles for positive control; color-coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Optional protective gauge boots available
- Heavy duty hook won't pull out
- Manifold and hose holder fittings 1/4"-3/8"-1/4"-1/4" unless otherwise identified
- Made in the USA



Replacement parts on following pages.

TITAN	I [®] 4-Valve			
UPC#	Description - °F/°C	Gauges	Scale	Refrigerant
49914 49913 49915	Manifold only with 5/16"-3/8"-5/16"-5/16" anchor and service fittings 49914 with 60" <i>PLUS II</i> " RYB and 3/8" x 45° Manifold only with 5/16"-3/8"-1/4"-5/16" anchor fittings and 1/4"-3/8"-1/4" service fittings	Red/Blue Red/Blue Red/Blue	kPa/psi kPa/psi kPa/psi	R-32/410A
49922 49925	Manifold only Manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Liquid Liquid	bar/psi bar/psi	R-22
49960 49962 49964 49965 49966	Manifold with 60" <i>PLUS II</i> [™] compact ball valve RYB and 3/8" x 45° A2L Manifold only A2L Manifold only with 5/16-3/8-5/16-5/16" fittings A2L Manifold with 60" <i>PLUS II</i> [™] RYB and 3/8" x 45° A2L Manifold only with 1/4" fittings A2L	Red/Blue Red/Blue Red/Blue Red/Blue Red/Blue	bar/psi bar/psi bar/psi bar/psi bar/psi	R-32/410A
49971 49982	Heat pump manifold only, 1/4×5/16×1/4 hose holder fittings Manifold only	Black/Black Liquid	bar/psi bar/psi	R-410A
45925	Manifold with (3) black CO2 hoses and (1) yellow 72" PLUS II 3/8" x 45° hose	Liquid	bar/psi	R-744
UPC#	Description - °F	Gauges	Scale	Refrigerant
49973 49977	Manifold only Manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Liquid Liquid	psi psi	R-22/410A
49963 49967 49968 49283*	Manifold only Manifold with 60" <i>PLUS II</i> [™] RYB and 3/8" x 45° Manifold with 60" <i>PLUS II</i> [™] compact ball valve RYB and 3/8" x 45° Manifold only	Red/Blue Red/Blue Red/Blue Red/Blue	psi psi psi psi	R-22/404A/410A
49983 49987 49993 49997	Manifold only Manifold with 60" <i>PLUS II</i> [™] RYB and 3/8" x 45° Manifold only Manifold with 60" <i>PLUS II</i> [™] RYB and 3/8" x 45°	Red/Blue Red/Blue Liquid Liquid	psi psi psi psi	R-22/134a/404A
49974 49975	Manifold only A2L Manifold with 60" <i>PLUS II</i> ™ RYB, compact ball valve A2L	Red/Blue Red/Blue	psi psi	R-32/454B/410A
49932 49935 49952 49955	Manifold only Manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45° Manifold only Manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Red/Blue Red/Blue Liquid Liquid	psi psi psi psi	R-134a/404A/407C
49900	Manifold with 72" PLUS II™ RYB and 3/8" x 45°	Red/Blue	psi	R-417A/422A/422D
49907	Manifold only	Red/Blue	bar/psi	R-448A/449A/452D
UPC#	Description - °C	Gauges	Scale	Refrigerant
49916	Manifold only	Red/Blue	bar/psi	R-12/22/502
49933 49912 49911	Manifold only Manifold only 49912 manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Red/Blue Red/Blue Red/Blue	bar/psi kPa/psi kPa/psi	R-22/134a/404A
49931 49934	Manifold only; no sight glass	Red/Blue Red/Blue	bar/psi bar/psi	R-134a/404A/407F
49936 49956	Manifold only Manifold only	Red/Blue Red/Blue	bar/MPa bar/psi	R-134a/404A/407C
49972	Heat pump manifold; no sight glass; 800 psi both gauges	Black/Black	bar/psi	

For replacement parts, refer to the manual (also available at yellowjacket.com)

CO₂ TEST AND CHARGING MANIFOLDS

Manifold and hoses designed specifically for transcritical CO₂ (R-744) applications.





The YELLOW JACKET® TITAN® Test and Charging Manifold for transcritical CO₂ systems is constructed with a forged aluminum alloy body making it lightweight for handling ease and durability. No sightglass means added safety. It features true 45° SAE flare hoses 78" in length.

- Large, easy-to-read 3-1/8" (80 mm) liquid-filled red and blue, 1% accuracy (Class 1) gauges; psi/bar
- Proven, double "O"-ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Fourth hose to enable connection to hi/lo sides, refrigerant tank, and vacuum pump for diagnostics, evacuation and charging without switching hoses.
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4").
- Dedicated transcritical CO₂ hose 78" (200 cm) in length
- Designed and assembled in the USA





Specifications

Scales:

LP 30 in. Hg/1500 psi (-1/+105 bar)

-60° to 85°F (-52° to 30°C)

HP 0/3000 psi (0/210 bar)

4-valve forged aluminum body

Precision stainless steel valve feed screws

No sight glass for added safety

Class 1, 3-1/8" (80 mm), oil-filled, pulse-free

Fittings: (3) 1/4"; (1) 3/8" (vacuum application only)

Hoses: Three (3) black, 78" (200 cm), 1/4" SAE fittings (45°)

Operating pressure 1740 psi (120 bar)

High pressure copper gaskets

One (1) yellow, 78" (200 cm), 3/8" SAE fittings

- Operating pressure 594 psi (41 bar)
- Neoporene built-in gaskets

UPC#	Description
UPC#	Description
45925	TITAN® CO2 Manifold with hoses (3) black and (1) yellow
45930	CO2 Transcritical Test and Charging Manifold with Quick Couplers
45922	CO2 78" (200 cm) black replacement hose (single)
45923	Nylon CO2 Manifold bag with handle and straps (optional)
45924	CO2 Manifold Briefcase
14579	3/8" 78" (200 cm) yellow replacement hose (single)
49193	High pressure replacement gauge
49194	Low pressure replacement gauge

For replacement parts, refer to the manual (also available at yellowjacket.com)

TITAN® 2-VALVE TEST & CHARGING MANIFOLD °F and °C



Comes with the same features and benefits as the TITAN® 4-valve unit but without the fourth hose. All fittings 1/4" unless otherwise noted.

Replacement parts on following page.

UPC#	Description - °F/°C	Gauges	Scale	Refrigerant
49814	Manifold only with 5/16" fittings	Red/Blue	kPa/psi	
49813	With 60" PLUS II™ 5/16x5/16" RYB	Red/Blue	kPa/psi	
49815	Manifold only with 5/16"-1/4"-5/16"	Red/Blue	kPa/psi	
	anchor fittings and 1/4" service fittings			
49862	Manifold only with 1/4" fittings	Red/Blue	bar/psi	R-32/410A (A2L)
49860	With 60" PLUS II™ compact ball valve RYB	Red/Blue	bar/psi	COMPARIBLE
49864	Manifold only with 5/16" fittings	Red/Blue	bar/psi	
49865	Manifold with 60" PLUS II™ RYB	Red/Blue	bar/psi	
49866	Manifold only with 5/16"-1/4"-5/16"			
	anchor fittings and 1/4" service fittings	Red/Blue	bar/psi	
49849	With 72" PLUS II™ Acme fittings RYB	Red/Blue	psi	R-1234yf
UPC#	Description - °F	Gauges	Scale	Refrigerant
49883	Manifold only	Red/Blue	psi	
49887	Manifold with 60" PLUS II™ RYB	Red/Blue	psi	R-22/134a/404A
49889	Manifold with 60" PLUS II™ SealRight RYB	Red/Blue	psi	
49801	Manifold with 60" PLUS II™ SealRight RYB	Red/Blue	psi	
49863	Manifold only	Red/Blue	psi	
49281*	Manifold only	Red/Blue	psi	R-22/404A/410A
49867	Manifold with 60" PLUS II™ RYB	Red/Blue	psi	
49868	With 60" PLUS II™ compact ball valve RYB	Red/Blue	psi	
49832	Manifold only	Red/Blue	psi	
49835	Manifold with 60" PLUS II™ RYB	Red/Blue	psi	R-134a/404A/407C
49831	Manifold with 60" PLUS II™ SealRight RYB		psi	
49847	With 72" PLUS II™ Acme fittings RYB	Red/Blue	psi	R-12/22/134a
UPC#	Description - °C	Gauges	Scale	Refrigerant
49816	Manifold only	Red/Blue	bar/psi	R-12/22/502
49833	Manifold only	Red/Blue	bar/psi	
49812	Manifold only	Red/Blue	kPa/psi	R-22/134a/404A
49811	49812 with 60" PLUS II™ RYB	Red/Blue	kPa/psi	
49836	Manifold only	Red/Blue	bar/MPa	R-134a/404A/407C
49856	Manifold only	Red/Blue	bar/psi	D. COLLADA
40922	Manifold only with 5/16" fittings	Red/Blue	MPa	R-32/410A



* Manifold comes standard with certified gauges.

For replacement parts, refer to the manual (also available at yellowjacket.com)

PROTECTIVE GAUGE BOOTS

For 2-1/2" (63.5 mm), 3-1/8" (80 mm)



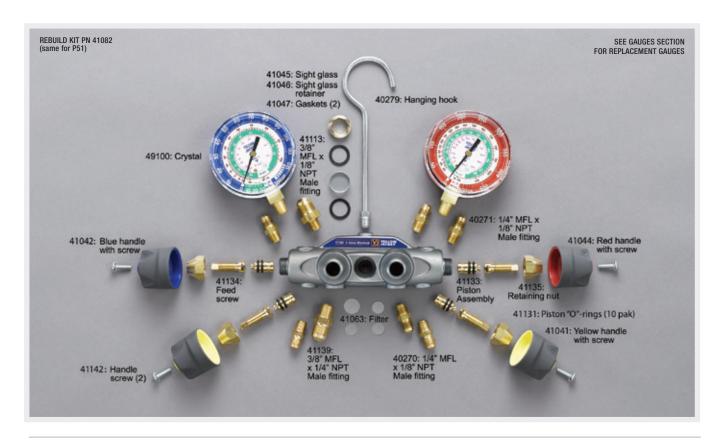
Rubber boots slip easily around gauges to cushion and protect them from impact.

- Fit 2-1/2" and 3-1/8" gauges without covering easy access recalibration screw
- Color-coded red or blue to match gauge
- Made in the USA

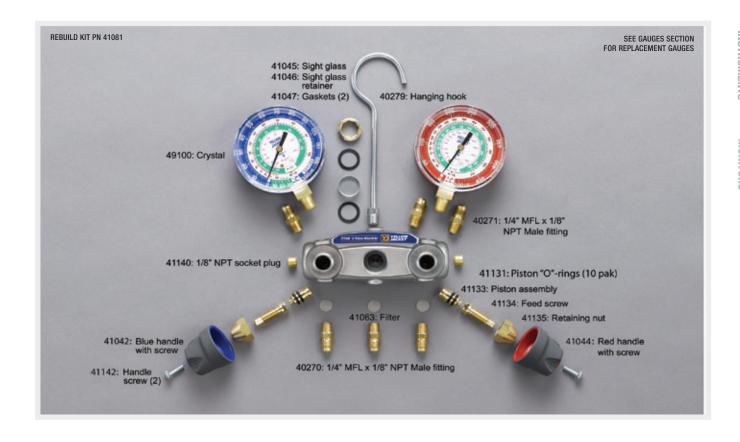


UPC#	Description
49010	2-1/2" Polycarbonite Lens
49090	2-1/2" Set of gauge boots
49091	2-1/2" Red protective gauge boot
49092	2-1/2" Blue protective gauge boot
49100	3-1/8" Replacement crystal
49190	3-1/8" Set of gauge boots
49191	3-1/8" Red protective gauge boot
49192	3-1/8" Blue protective gauge boot

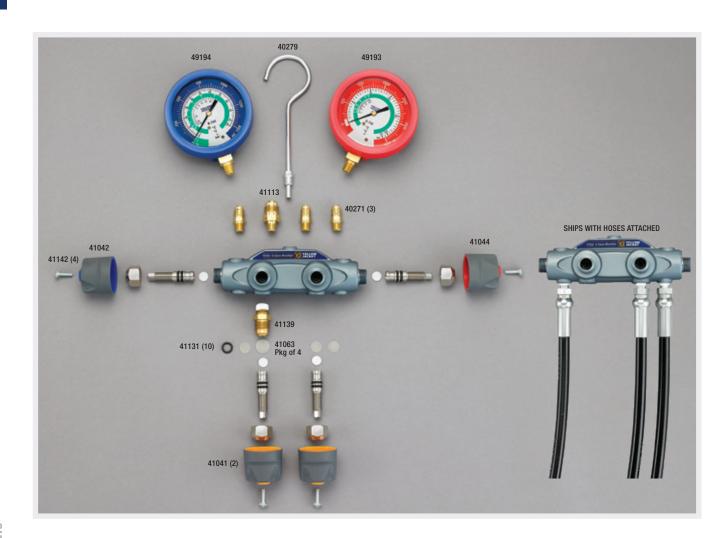
TITAN® 4-VALVE MANIFOLD REPLACEMENT PARTS



TITAN® 2-VALVE MANIFOLD REPLACEMENT PARTS



CO₂ TEST AND CHARGING MANIFOLD REPLACEMENT PARTS





BRUTE II® 4-VALVE TEST & CHARGING MANIFOLD °F and °C



Replacement parts available.

The BRUTE II® 4-Valve Test and Charging Manifold provides the flow that's proven faster than any conventional manifold. The aluminum alloy body is forged for strength and reliability with 3/8" bores through the body to speed the job.

- Fourth hose enables connection to hi-/lo-sides, refrigerant tank and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- Available in 1/4" hi-/lo-sides with 3/8" vacuum port for regular jobs, or 3/8" hi-/losides with 1/2" vacuum port for larger systems



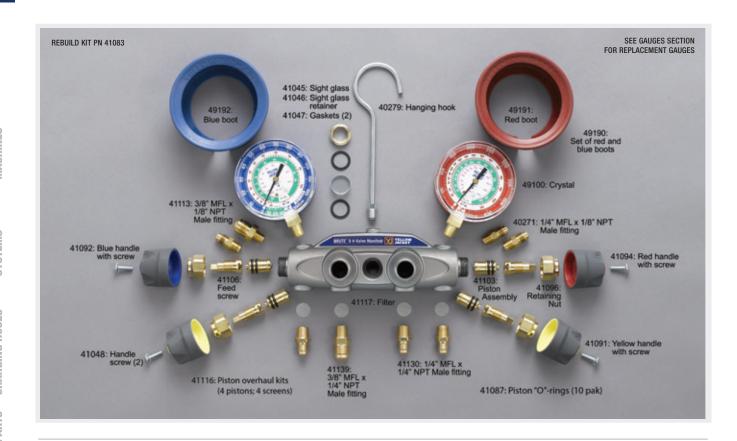
- Double "O" ring piston for reliability and long service life
- Exclusive 100-mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seat
- Front access for easy field recalibration
- Contoured easy-grip handles for positive control; color-coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out
- Also available with 3-1/2" (90 mm) red and blue liquid-filled gauges
- Manifold and hose holder fittings 1/4"-3/8"-1/4"-1/4" unless otherwise identified
- Made in the USA



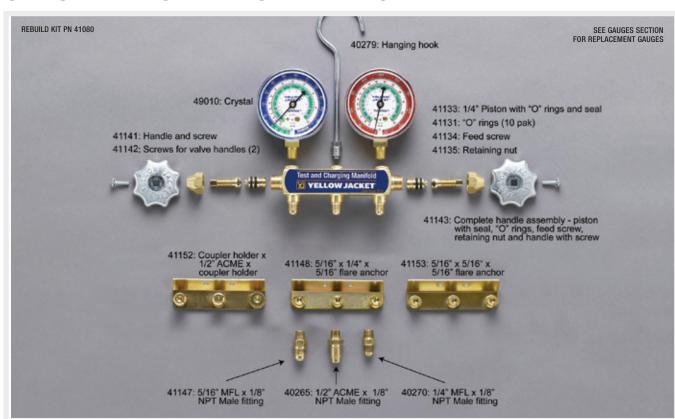
UPC#	Description - °F/°C	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
46001	Manifold only	3/8"	1/4"	Liquid	bar/psi	R-410A
46021	Manifold only		1/4"	Liquid	bar/psi	R-22
46026	Manifold with 72" PLUS II [™] RYB and 3/8" x 45°	3/8"	1/4"	Liquid	bar/psi	R-22
46000	Manifold only A2L	3/8"	1/4"	Red/Blue	bar/psi	
46003	46003 With 60" PLUS II™ compact ball valve RYB and 3/8" x 45° A2L		1/4"	Red/Blue	bar/psi	R-32/410A
46160	Manifold only 5/16"-3/8"-1/4"-5/16" anchor and 1/4" service fittings A2L	-	-	Red/Blue	bar/psi	11 02/110/1
46170	Manifold only 5/16"-3/8"-5/16"-5/16" anchor and service fittings A2L	-	-	Red/Blue	bar/psi	A21
46174	Manifold only 5/16"-3/8"-1/4"-5/16" anchor and 1/4" service fittings A2L			Red/Blue	kPa/psi	COMPATIBLE
46176	Manifold only 5/16"-3/8"-5/16"-5/16" anchor and service fittings			Red/Blue	kPa/psi	
UPC#	Description - °F	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
46011	Manifold only	3/8"	1/4"	Liquid	psi	R-22/410A
46010	Manifold only	3/8"	1/4"	Red/Blue	psi	
46013	Manifold with 60" PLUS II™ compact ball valve RYB and 3/8" x 45	3/8"	1/4"	Red/Blue	psi	R-22/404A/41
49291*	Manifold only	3/8"	1/4"	Red/Blue	psi	N=22/404AV41
46022	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	
46030	Manifold only	3/8"	1/4"	Red/Blue	psi	
46031	Manifold only	3/8"	1/4"	Liquid	psi	D 1040/404A/4
46032	Manifold with 60" PLUS II [™] RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	R-134a/404A/4
46038 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46040 Manifold only		3/8"	1/4"	Liquid	psi	
		3/8"	1/4"	Red/Blue	psi	
46041	Manifold only	3/8"	1/4"	Liquid	psi	
46042	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	R-22/134a/40
46043	Manifold with 60" PLUS II™ compact ball valve RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	
46048	Manifold with 72" PLUS II™RYB and 3/8" x 45°	3/8"	1/4"	Liquid	psi	
46014	Manifold only A2L	3/8"	1/4"	Red/Blue	psi	R-32/454B/41
46015	Manifold with 60" PLUS II™ 1/4" RYB compact ball valve A2L	3/8"	1/4"	Red/Blue	psi	(A2L)
UPC#	Description - °C	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
46180	Manifold only	3/8"	1/4"	Red/Blue	bar/psi	R-12/22/502
46130	Manifold only	3/8"	1/4"	Red/Blue	bar/MPa	R-134a/404A/4
46190	Manifold only	3/8"	1/4"	Red/Blue	bar/psi	n-134a/404A/4
46140	Manifold only	3/8"	1/4"	Red/Blue	bar/psi	R-22/134a/40
	BRUTE II® 4-Valve Commercial					
BRU	E II® 4-valve Commercial					
BRU [*] UPC#	E II® 4-Valve Commercial Description - °F/°C	Vacuum port	Hi/Lo charge	Gauges	Scale	Refri <u>gerant</u>
	Description - °F/°C	Vacuum port	Hi/Lo charge			Refrigerant
UPC#	Description - °F/°C Manifold only	•		Liquid	bar/psi	Refrigerant
UPC # 46081	Description - °F/°C	1/2"	3/8"			
UPC # 46081	Description - °F/°C Manifold only Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and	1/2"	3/8"	Liquid	bar/psi	R-22
UPC# 46081 46084	Description - °F/°C Manifold only Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 at 1/2" x 60" heavy duty - Straight x Straight Description - °F	1/2" 1/2"	3/8" 3/8"	Liquid Liquid	bar/psi bar/psi	R-22
UPC# 46081 46084 UPC#	Description - °F/°C Manifold only Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 at 1/2" x 60" heavy duty - Straight x Straight	1/2" 1/2" Vacuum port	3/8" 3/8" Hi/Lo charge	Liquid Liquid Gauges	bar/psi bar/psi	R-22 Refrigerant
UPC# 46081 46084 UPC# 46090	Description - °F/°C Manifold only Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 at 1/2" x 60" heavy duty - Straight x Straight Description - °F Manifold only	1/2" 1/2" Vacuum port 3/8"	3/8" 3/8" Hi/Lo charge 3/8"	Liquid Liquid Gauges Red/Blue	bar/psi bar/psi Scale psi	
UPC# 46081 46084 UPC# 46090 46091	Description - °F/°C Manifold only Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 at 1/2" x 60" heavy duty - Straight x Straight Description - °F Manifold only Manifold only	1/2" 1/2" Vacuum port 3/8" 1/2"	3/8" 3/8" Hi/Lo charge 3/8" 3/8"	Liquid Liquid Gauges Red/Blue Liquid	bar/psi bar/psi Scale psi psi	R-22 Refrigerant

* Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see Gauges section. For replacement parts, refer to the manual (also available at yellowjacket.com)

BRUTE II® MANIFOLD REPLACEMENT PARTS



SERIES 41 MANIFOLD REPLACEMENT PARTS



SERIES 41 MANIFOLDS

°F and °C with 2-1/2" (63.5 mm) gauges



Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°.

- Flutterless[™] technology means surge protector and silicone dampened movement helps minimize needle pulsation for easier, more accurate readings
- Sliding double "O" ring pistons reduces wear
- Most manifolds include color-coded YELLOW JACKET® charging hoses
- Easy-to-read 2-1/2" (63.5 mm) steel case gauges with 3-2-3% accuracy (Class B)
- Limited lifetime warranty on manifold bar and valves - not gauges. See warranty information for details
- Made in the USA





Sorios	41 Manifolds				
UPC#	Description - °F and °C - Red/Blue	Scale	Refrigerant		
42051	Heat pump manifold only, 1/4-5/16-1/4"	bar/psi			
42054	With 60" black PLUS II™ hoses (two 1/4x5/16" ball valve and	bar/psi	R-410A		
	one 1/4x1/4" ball valve)				
41712	Manifold only	kg/cm²/psi			
41703	With 60" PLUS II™ FLEXFLOW™ hoses	kg/cm²/psi			
41709	With 60" PLUS II [™] standard fittings	kg/cm²/psi			
41715*	With 60" PLUS II™ standard fittings	kg/cm²/psi	D 410A		
41710	With 60" PLUS II™ heavy duty black standard fittings	kg/cm²/psi	R-410A		
41702	With 60" PLUS II™ heavy duty black compact ball valve fittings	kg/cm²/psi			
42715	With 60" PLUS II™ compact ball valve fittings	kg/cm²/psi			
41711*	With 60" PLUS II™ compact ball valve fittings	kg/cm²/psi			
41652	Manifold only with 5/16, 1/4", 5/16" hose fittings	bar/psi	R-32/410A		
UPC#	Description - °F - Red/Blue	Scale	Refrigerant		
41212	Manifold only	psi	3		
41213	With 36" PLUS II™ standard fittings	psi			
41220	With 48" PLUS II™ standard fittings	psi			
41215	With 60" PLUS II™ standard fittings	psi			
41219	With 72" PLUS II™ standard fittings				
44213	With 36" PLUS II™ SealRight fittings	psi	R-12/22/502		
44220		psi	n-12/22/302		
	With 48" PLUS II™ SealRight fittings	psi			
44215	With 60" PLUS II™ SealRight fittings	psi			
44219	With 72" PLUS II™ SealRight fittings	psi			
42215	With 60" PLUS II™ compact ball valve fittings	psi			
42219	With 72" PLUS II™ compact ball valve fittings	psi			
41312	Manifold only	psi			
41313	With 36" PLUS II™ standard fittings	psi			
41311	With 48" PLUS II™ standard fittings	psi			
41315	With 60" PLUS II™ standard fittings	psi			
41319	With 72" PLUS II™ standard fittings	psi			
43313	With 36" PLUS II [™] standard fittings	psi	R-134a/404A/507		
44313	With 36" PLUS II™ SealRight fittings	psi	11 10-40 -10-7 (001		
44315	With 60" PLUS II™ SealRight fittings	psi			
44319	With 72" PLUS II™ SealRight fittings	psi			
42315	With 60" PLUS II™ compact ball valve fittings	psi			
41202	Manifold only	psi			
41209	With 36" PLUS II™ standard fittings	psi	R-22/134a/404A		
41211	With 60" PLUS II™ standard fittings	psi			
UPC#	Description - °C - Red/Blue Scale	Refrigeran			
41292	Manifold only	kg/cm²/psi			
41293	With 36" PLUS II™ standard fittings	kg/cm²/psi			
41295	With 60" PLUS II™ standard fittings	kg/cm²/psi	R-12/22/502		
41299	With 72" PLUS II™ standard fittings	kg/cm²/psi			
41382	Manifold only	bar/psi			
41353	Manifold with 36" PLUS II™ standard fittings	bar/psi			
41355	Manifold with 60" PLUS II™ standard fittings	bar/psi			
43355	Manifold with 60" PLUS II™ standard fittings	bar/psi			
41392	Manifold only	kg/cm²/psi	R-134a/404A/507		
	Manifold with 36" PLUS II™ standard fittings				
41363		kg/cm²/psi			
41365	Manifold with 60" PLUS II™ standard fittings	kg/cm²/psi			
43365	Manifold with 60" PLUS II™ standard fittings	kg/cm²/psi	D 404-/4044/40=0		
41332	Manifold only	bar/psi	R-134a/404A/407C		
40944	Manifold only with 1/4" ports and 5/16" hose fittings	bar/MPa	R-410A		
41781	Manifold only with 5/16" fittings	bar/MPa			
41780					
*Special	Special R-410A hose - R/B hoses are 1/4" x 45° 5/16" end; Y hose is 1/4" x 45° 1/4" end.				

'Special R-410A hose - R/B hoses are 1/4" x 45° 5/16" end; Y hose is 1/4" x 45° 1/4" end. For replacement parts, refer to the manual (also available at yellowjacket.com)

NEW! NEW!

SERIES 41 MANIFOLDS

°F and °C with 3-1/8" (80 mm) gauges



Series 41 manifolds are also available with larger, easier to read 3-1/8" color-coded gauges in rugged steel cases with polycarbonate crystals. These gauges feature 1% accuracy (Class 1) for an exact reading in critical charge systems.

- Color-coded scales
- · Sliding double "O" ring pistons reduce wear
- Long life nylon seats
- Forged brass body for durability
- · Full porting maximizes capacity and flow
- Some models include color-coded, 60" PLUS II™ hoses with standard 1/4" flare fittings
- Hose assemblies UL recognized for 4000 psi (275 bar) burst and 800 psi (55 bar) working pressure. File# SA9737
- Made in the USA



	o			
Box	Clamshell			
UPC#	UPC#	Description - °F/°C	Scale	Refrigerant
41863	-	Manifold only with 5/16"-1/4"-5/16" anchor fittings and 1/4" service fittings - red/blue gauge	kPa/psi	
41652	-	Manifold only with 5/16", 1/4", 5/16" anchor and 1/4" service fittings	bar/psi	
41659 - -	- 42021 42024	Manifold only with 5/16" anchor fittings Manifold only Manifold with 60" PLUS II™ standard fittings	bar/psi bar/psi bar/psi	R-32/410A
41862	-	Manifold only with 5/16" anchor and service fittings	kPa/psi	COMPATIBLE
-	41865	41862 with 60" PLUS II™ 5/16" fittings	kPa/psi	
UPC#	UPC#	Description - °F - Red/Blue	Scale	Refrigerant
- -	41842 42007	Manifold only Manifold with 60" PLUS II™ standard fittings	psi psi	R-12/22/134a
-	41846	Manifold with 72" PLUS II™ with couplers	psi	
_	42001	Manifold only	psi	
-	49271*	Certified 42001 manifold		
_	42004 42201	Manifold with 60" PLUS II™ standard fittings With 60" PLUS II™ compact ball valve fittings	psi psi	R-22/404A/410A
-	42005	Manifold only	psi	
_	49272*	Certified 42005 manifold		R-22/134a/404A
-	42006	Manifold with 60" PLUS II™ standard fittings	psi	11 22/10 10 17 10 17
-	42205	With 60" PLUS II™ compact ball valve fittings	psi	
_	42035 42036	Manifold only A2L With 60" PLUS II™ 1/4" Hoses 3-Pak RYB A2L	psi psi	R-32/454B/410A
UPC#	UPC#	Description - °C - Red/Blue	Scale	Refrigerant
-	41622	Manifold only	bar/psi	
_	41852	Manifold only	kPa/psi	R-22/134a/404A
-	41855	Manifold with 60" PLUS II™ standard fittings	kPa/psi	
-	41632	Manifold only	bar/psi	R-12/134a/413A
_	42031 42034	Manifold only With 60" PLUS II™ hose, standard fittings	psi	R-22/404A/410A
-	41866	Manifold only	bar/psi	R600A/600/290
41784	-	Manifold only with 5/16" fittings	MPa	R-32/410A

SERIES 41 DELUXE MANIFOLDS

°F Class 1 (1% accuracy) brass gauges



All the same features as the regular "Series 41" with 1% accuracy (Class 1) brass gauges

- Upgraded movement with phosphor bronze plates, brass gears and pinions. Dissimilar parts create less friction and last longer. FlutterLess[™] technology included
- · Polished solid brass case with glass crystals
- Made in the USA



UPC#	Description	Scale	Refrigerant
44235	With 60" PLUS II™ SealRight fittings	psi	R-12/22/502
42332	Manifold only	psi	
42333	With 36" PLUS II™ compact ball valve fittings	psi	
42436	With 60" PLUS II™ compact ball valve fittings	psi	R-22/134a/ 404A
42435	With 60" PLUS II™ standard fittings	psi	
45221	Retro manifold °C	psi	R-134a/404A 407C
45222	Retro manifold °F	psi	



For more information on the certification of 3-1/8" gauges, see Gauges section.

SERIES 41 DIGITAL MANIFOLDS

°F and °C with 3 1/8" backlit LCD gauges



When clear, swift and accurate readings meet quality and precision measurements.

The YELLOW JACKET® Series 41 Digital Manifold combines the advantages of digital technology with the proven Series 41 2-valve brass manifold. The 3-1/8" backlit LCD gauges provide easy-to-read accurate measurements for system pressures. Each interchangeable gauge is capable of handling maximum pressures of 800 psi, so there are no worries about over-pressurizing. Pre-programmed with 21 most common refrigerants, the Series 41 Digital Manifold will provide clear, swift and accurate pressure measurements for all your system applications.

The forged body of the manifold is constructed of solid brass for durability. Full porting maximizes capacity, and the metal valve handles are full size for easy operation. For added security, the hose anchors are forged into the back of body at 45°.

Gauge Specifications:

Pressure Range: -14.7 ~ 800 psi (-1 ~ 54.4 bar)
Unit (Pressure): psi / bar / MPa / kg/cm2 / kPa
Working Temperature: 14°F ~ 140°F (-10°F ~ 60°F)
Pressure Accuracy: ±0.5% F.S @71.6~82.4°F

(@22~28°F)

Unit (Temperature): °F/°CWorking Humidity: 35~85%

• Sampling Rate = 1.2 sec max.

Auto-off: 10 minutes

Zero pressure function

• Power Supply: Battery CR123A (3.0V, 1400mAh)

Battery Life: 2 years for continuous operation without backlight

· Warranty: One year

Refrigerants:

R-22, R-23, R-32, R-124, R-134A, R-290, R-404A, R-407C, R-407F, R-408A, R-410A, R-417A, R-427A, R-444B, R-448A, R-449A, R-452A, R-507, R-600, R-1234YF, R1270

Manifold Specifications:

- · Forged brass body for durability
- Sliding double "O" ring pistons reduce wear
- Long life nylon seats
- Full porting maximizes capacity and flow
- Hose assemblies UL recognized for 4000 psi (275 bar) burst and 800 psi (55 bar) working pressure. File# SA9737
- Assembled in the USA

UPC#	Description
46060	Series 41 Digital Manifold A2L
46062	Series 41 Digital Manifold with 3-pack PLUS II [™] hoses with compact ball valves A2L
UPC#	Replacement Parts
49017	Replacement gauge

NH3 AMMONIA MANIFOLD

UPC#	Description
40190	Manifold body with valves
40192	Manifold and gauges
40193	Manifold and gauges with three NHA 48" hoses
40194	3/8" Ammonia manifold
40195	3/8" Ammonia manifold with NBC-48" hoses
40196	3/8" Ammonia manifold with NBC-72" hoses
40199	Replacement valve assembly
41131	"O"-rings (10 pak)
41142	Replacement screw
41151	Hose anchor

This heavy duty manifold features cast iron body and full size metal handles. Dual temperature/pressure R717 gauge has bar with °C and psi with °F ammonia scales.

- Finger-tight one-piece valve stem for positive seal on nylon seat
- Easy, accurate valve adjustment
- Use only with NH₃ rated hoses
- Made in the USA



HEAT PUMP MANIFOLDS



The YELLOW JACKET® Heat Pump Manifold features two 800 psi gauges to read all heat pump pressure conditions. Traditional lo-side manifold gauges can be susceptible to damage when heat pumps go into heating mode. Because the lo-side gauge of the YELLOW JACKET Heat Pump Manifold is also designed for pressures up to 800 psi, it can read the pressure whether the pump is in heating mode, cooling mode or transition.

- Large 3-1/8" gauges feature black steel cases with polycarbonate crystal
- Hi- and lo-side gauges read up to 800 psi
- · Larger dials are bold and easy to read
- Dials with 1% accuracy (Class 1) full scale movement provide the level of accuracy necessary for critical charge systems
- Proven sliding double "O" ring pistons reduce wear

- Long life nylon seats
- Forged brass body for durability
- Full porting maximizes capacity and flow
- Full-size metal valve handles for easy operation
- Hose assemblies UL recognized for 4000 psi (275 bar) burst and 800 psi (55 bar) working pressure (File # SA9737)
- Made in the USA



UPC#	Description	Hoses	Hose holder fittings	Refrigerants
42041	Heat pump manifold	None	1/4-1/4-1/4"	
42044	Heat pump manifold	(3) 60" black <i>PLUS II</i> ™ 1/4" hoses	1/4-1/4-1/4"	R-22/ R-407C/
49133	High side replacement gauge	800 psi, °F	-	R-410A
49134	Low side replacement gauge	800 psi, °F	-	
42052	Heat pump manifold	None	1/4-1/4-1/4"	
42055	Heat pump manifold	(3) 60" black <i>PLUS II</i> ™ 1/4" ball valve hoses	1/4-1/4-1/4"	
42051	Heat pump manifold	None	5/16-1/4-5/16"	
42054	Heat pump manifold	60" black <i>PLUS II</i> ™ 1/4" ball valve hoses; (2) 5/16" on service end (1) 1/4" on service end	5/16-1/4-5/16"	R-410A
49971	Heat Pump Manifold	Manifold only	5/16-3/8-1/4-5/16"	
49141	High side replacement gauge	800 psi (55 bar), °C and °F	-	
49142	Low side replacement gauge	800 psi (55 bar), °C and °F	-	



MANIFOLD BACKPACK KITS NEW!

The YELLOW JACKET® Manifold Backpack Kits pair popular TITAN® and Series 41 Manifolds with PLUS II™ Charging Hoses in a rugged backpack for hands-free, grab-and-go convenience.

There is plenty of room to add additional tools needed for all your A/C installation and tune up needs. Select the Manifold Kits specific to the refrigerants you are working with.

DOMESTIC MANIFOLD BACKPACK KITS



4V TITAN® R-32/410A Manifold Kit (P/N 49944)

- TITAN® 4-Valve Manifold, 3-1/8" Gauges, bar/psi, °F °C
- PLUS II™ 1/4" Hose 60" 3-Pak RYB Compact Ball Valve
- PLUS II™ 3/8" Yellow Large Volume 72" Charging Hose



4V TITAN® R-448A/449A/452A Manifold Kit (P/N 49945)

- TITAN® 4-Valve Manifold, 3-1/8" Gauges, bar/psi, °F
- PLUS II™ 1/4" Hose 60" 3-Pak RYB, Compact Ball Valve
- PLUS II[™] 3/8" Yellow Large Volume 72" Charging Hose



4V TITAN® R-22/404A/410A Manifold Kit (P/N 49984)

- TITAN® 4-Valve Manifold, 3-1/8" Gauges, psi, °F
- PLUS II™ 1/4" Hose 60" 3-Pak RYB, Compact Ball Valve
- PLUS II™ 3/8" Yellow Large Volume 72" Charging Hose



Series 41 R-22/404A/410A Manifold Kit (P/N 42017)

- Series 41 Manifold, 3-1/8" Gauges, psi, °F
- PLUS II™ 1/4" Hose 72" 3-Pak RYB
- PLUS II[™] 3/8" Yellow Large Volume 72" Charging Hose



Series 41 R-134A/404A/407C Manifold Kit (P/N 41316)

- Series 41 Manifold, 2-1/2" Gauges, psi, °F
- PLUS II™ 1/4" Hose 72" 3-Pak RYB
- PLUS II[™] 3/8" Yellow Large Volume 72" Charging Hose



INTERNATIONAL MANIFOLD BACKPACK KITS



4V TITAN® R-32/410A Manifold Kit NOR EU (P/N 49940)

- TITAN® 4-Valve Manifold, 80mm Gauges, bar/psi, °F °C
- PLUS II[™] 1/4" Hoses 60" RB 1/4" x 5/16", Y 1/4" Compact Ball Valve
- Yellow B-72 Charging / Evacuation Hose 3/8" x 3/8"



4V TITAN® R-448A/449A/452A Manifold Kit (P/N 49942)

- TITAN® 4-Valve Manifold, 80mm Gauges, bar/psi, °C
- PLUS II[™] 1/4" Charging Hose 72" 3-Pak RYB, Standard 1/4" Fittings
- Yellow B-72 Charging / Evacuation Hose 3/8" x 3/8"



Series 41 Heat Pump R-32/410A Manifold Kit (P/N 42056)

- Series 41 2-Valve Heat Pump Manifold, 80mm Gauges, EU, °F °C
- PLUS II[™] 1/4" Hoses 60" RB 1/4" x 5/16", Y 1/4" Compact Ball Valve



4V TITAN® R-134A/404A/407C Manifold Kit (P/N 49941)

- TITAN® 4-Valve Manifold, 80mm Gauges, bar/psi, °C
- PLUS II[™] 1/4" Charging Hose 72" 3-Pak RYB, Standard 1/4" Fittings
- Yellow B-72 Charging / Evacuation Hose 3/8" x 3/8"



4V TITAN® Pressure Test Manifold Kit (P/N 49943)

- TITAN® 4-Valve Pressure Test Manifold, 80mm Gauges, bar/psi
- PLUS II[™] 1/4" Charging Hose 72" 3-Pak RYB, Standard 1/4" Fittings
- Yellow B-72 Charging / Evacuation Hose 3/8" x 3/8"



Series 41 R-32/410A Manifold Kit (P/N 41653)

- Series 41 2-Valve Manifold, 80mm Gauges, EU, °F °C
- PLUS II[™] 1/4" Hoses 60" RB 1/4" x 5/16", Y 1/4" Compact Ball Valve



LIQUID CHARGER



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems, and a liquid charger adapter is necessary for safe and fast liquid charging through the low pressure side of a system.

- The adapter connects to the cylinder valve or refrigerant can
- To protect the compressor, adapter orifice reduces liquid flow to a level below compressor capacity
- Eliminates the time and work of heating cylinders

MADE II

UPC#	Description
41123	1/4" Liquid charging adapter
41124	5/16" Liquid charging adapter
41132	1/4" "O" ring and orifice
41138	5/16" "O" ring and orifice

"O" RING LUBRICANT

To lubricate "O" rings in manifolds when pistons or "O" rings are being replaced. Use sparingly.



MADE IN THE USA

UPC# Description

41118 "O" ring lubricant (0.75 oz.)





UPC#	Description
41099	Complete kit
41105	Box only with label
Kit co	ntents/quantity
41041	Yellow handle with screw - TITAN (4)
41042	Blue handle with screw - TITAN (3)
41044	Red handle with screw - TITAN (3)
41048	Handle screws (2) - Series 41/TITAN/BRUTE II (6 sets)
41061	Sight glass (1), retainer (1), gaskets (2) - BRUTE II/TITAN (4 sets)
41090	Handle screws (2) - Older style BRUTE (6 sets)
41091	Yellow handle with screw - BRUTE II (4)
41092	Blue handle with screw - BRUTE II (3)
41094	Red handle with screw - BRUTE II (3)
41096	Valve retaining nut - BRUTE II (4)
41103	3/8" Piston - BRUTE II (8)
41106	Feed screw - BRUTE II (4)
41134	Feed screw - Series 41/TITAN (6)
41135	Valve retaining nut - Series 41/TITAN (6)
41141	Metal handle with screw - Series 41 (4)
41142	Handle screws (2) - Series 41/TITAN/BRUTE II (6 sets)
41133	1/4" Piston - Series 41/TITAN (6)

MANIFOLD CARRYING CASES



Heavy duty blue blow- molded cases are available in four different manifold/hose configurations. Includes handle and a long life top hinge. MADE IN THE USA

UPC#	Description
40263	Series 41 case – 12 1/4" x 8" x 4 1/4"
40822	Case for <i>BRUTE™II</i> and Refrigeration System Analyzer (40815) – 6-1/2" x 17" x 14"

MANIFOLD PARTICULATE FILTER



As manifold usage changes with more recovery change outs, more particulate matter is drawn through manifolds. Trap the particles with these fittings before they damage valve seats or pass into your MADE IN THE USA recovery equipment. Replaceable, cleanable screens.

UPC#	Description
41119	1/4" Manifold particulate filter
41120	3/8" Manifold particulate filter
41121	1/2" Manifold particulate filter
41122	Replacement filter screen (5 pak)

SIGHT GLASS TOOL

Designed to fit into the TITAN and BRUTE II sightglass retainers, metal insert allows you to remove or tighten the retainer using a 1/4" drive wrench.



UPC# Description 41095 Sight glass tool for TITAN/BRUTE

MADE IN THE USA

SINGLE GAUGE MANIFOLD

- Check pressure on lo-side of system
- Nylon seals and double "O" ring pistons

UPC#	Description
40318	Lo-side manifold R-12/22/502
40319	Lo-side manifold R-134a/404A/407C
40320	Lo-side manifold R-410A
40326	Lo-side 1/4" valve R-32/410A
40338	Lo-side manifold R-600A
40339	Hi-side manifold R-600A/600/290
40340	Lo-side manifold R-600A/600/290
40349	Low-side manifold R-600a/290



SINGLE TEST GAUGES

Quick pressure checks - use lo- or hi-side gauge with quick coupler to attach directly to system or tanks. MADE IN THE USA



LIPC# D	escription
$OI O\pi D$	Cochiption

Gauge	with quick coupler and 12" hose - angle coupling
14811	12" Red hose 1/4" Male flare x 45° quick coupler
14821	12" Blue hose 1/4" Male flare x 45° quick coupler
19110	Quick coupler only

Gauge with 19110 quick coupler for red				
saude with 19110 duick coubler for red	Carrage resides 4	0440		fau uaa
	aaude with i	9 I IV GUICK	k coubler	ior rec

Gauge	with 19110 quick coupler for recovery tank pressure check
40331	Red pressure °F
40332	Blue compound °F
40341	Red pressure w/quick coupler & hose
40342	Blue compound w/quick coupler & hose
19110	Quick coupler only
40334	Red pressure °F; 0 - 800 psi; R-22/404A/410A
40335	Blue compound °F; 0 - 800 psi; R-22/404A/410A
40344	Red pressure °F; 0 - 800 psi; R-22/404A/410A; with quick coupler and hose
40345	Blue compound °F; 0 - 800 psi; R-22/404A/410A; with quick coupler and hose

SPECIALIZED AND GENERAL USE GAUGES





Manifold Gauges

High visibility, colored temperature scales for accurate measurements.



NEW!

NEW!

3-1/8" (80 mm) DRY MANIFOLD GAUGES (°F and °C) RED, BLUE AND BLACK With 1% accuracy (Class 1) calibration

Large 3-1/8" gauges are housed in a red or blue steel case with front recalibrator screw. High visibility colored temperature scales are easy to read through the full view polycarbonate crystal.

- Flutterless[™] technology with brass surge protector to minimize needle pulsation
- · Brass gauge movement
- Copper alloy Bourdon tube
- 1/8" NPT Male connection
- · Calibrated to 1% accuracy
- Color-coded red for pressure and blue for compound
- Color-coded refrigerant types

	°F - Fahrenheit Gauges			
	UPC#	Description	Pressure Scale	Refrigerants
	49103 49104	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-12/22/134a
	49105	3-1/8" Red pressure	0 - 500 psi	R-22/134a/404A
	49106	3-1/8" Blue compound	30"-0-120** psi	N-22/134a/404A
	49111 49112	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-417A/422A/422D
	49133 49134	3-1/8" Heat pump red dial 3-1/8" Heat pump blue dial	0 - 800 psi 0 - 800 psi	R-22/407C/410A
	49137 49138	3-1/8" Red pressure 3-1/8" Blue compound	0 - 800 psi 30"-0-350*** psi	R-22/404A/410A
	49151 49152	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-134a/404A/407C
	49157 49158	3-1/8" Red pressure	0 - 800 psi 0-55 bar	Pressure only
	49603	3-1/8" Blue compound 3-1/8" Red pressure	0 - 500 psi	R-448A/449A/452A
!	49604 49117	3-1/8" Blue compound 3-1/8" Red pressure	30"-0-120** psi 0 - 500 psi	R-32/454B/410A
!	49118	3-1/8" Blue compound	30"-0-120** psi	
Į		d Gauges	0 500 1	
	49203 49204	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-12/22/134a
	49205 49206	3-1/8" Red pressure 3-1/8" Blue compound	0 - 500 psi 30"-0-120** psi	R-22/134a/404A
	49237 49238	3-1/8" Red pressure 3-1/8" Blue compound	0 - 800 psi 30"-0-350*** psi	R-22/404A/410A
	49251	3-1/8" Red pressure	0 - 500 psi	R-134a/404A/407C
!	49252 49217	3-1/8" Blue compound 3-1/8" Red pressure	30"-0-120** psi 0 - 500 psi	R-32/454B/410A
!	49218	3-1/8" Blue compound	30"-0-120** psi	11 02/1010/110/1

Universal Gauges (°F - Fahrenheit and °C - Celsius)			elsius)
UPC#	Description	Pressure scale	Refrigerants
49109 49110	3-1/8" Red pressure 3-1/8" Blue compound	kPa and psi kPa and psi	R-32/410A
49141 49142	3-1/8" Heat pump red dial 3-1/8" Heat pump blue dial	· ·	R-410A
49155 49156	3-1/8" Red pressure 3-1/8" Blue compound	bar, psi and kPa bar, psi and kPa	R-32
49159 49160	3-1/8" Red pressure 3-1/8" Blue compound	bar and psi bar and psi	R-32/410A
49259 49260	3-1/8" Red pressure 3-1/8" Blue compound	bar and psi bar and psi	R-32/410A



When a gauge has a RETARD zone, full scale is considered to be the last marked reading prior to entering the RETARD zone. For example, this gauge has a full scale reading of 120 psi. Gauge accuracy is not specified in the RETARD zone.

°C - C	elsius Gauges		
UPC#	Description	Pressure scale	Refrigerants
49107	3-1/8" Red pressure	kPa and psi	
49108	3-1/8" Blue compound	kPa and psi	D 00/404 /4044
49169	3-1/8" Red pressure	bar and psi	R-22/134a/404A
49170	3-1/8" Blue compound	bar and psi	
49131	3-1/8" Red pressure	bar and psi	R-134a/404A/407C
49132	3-1/8" Blue compound	bar and psi	11 10 10 10 10 10 10 10
49139	3-1/8" Red pressure	psi	R-22/404A/410A
49140	3-1/8" Blue compound	psi	
49145	3-1/8" Red pressure	bar and psi	R-12/22/502
49146	3-1/8" Blue compound	bar and psi	
49147	3-1/8" Red pressure	MPa	R-32/410A
49148	3-1/8" Blue compound	MPa	
49163	3-1/8" Red pressure	bar and MPa	R-134a/404A/407C
49164	3-1/8" Blue compound	bar and MPa	
49165	3-1/8" Red pressure	bar and psi	R-12/134a/413A
49166	3-1/8" Blue compound	bar and psi	
49181	3-1/8" Red pressure	bar and psi	R-134a/404A/407F
49182	3-1/8" Blue compound	bar and psi	
49601	3-1/8" Red pressure	0 - 500 psi	R-448A/449A/452A
49602	3-1/8" Blue compound	30"-0-120** psi	
49149	3-1/8" Red pressure	0 - 160 psi	R-600a/600/290
49150	3-1/8" Blue compound	30"-0-58* psi	
,	ed Gauges		
49231	3-1/8" Red pressure	bar and psi	R-134a/404A/407C
49232	3-1/8" Blue compound	bar and psi	
49245	3-1/8" Red pressure	bar and psi	R-12/22/502
49246	3-1/8" Blue compound	bar and psi	
49263	3-1/8" Red pressure	bar and MPa	R-134a/404A/407C
49264	3-1/8" Blue compound	bar and MPa	
49265	3-1/8" Red pressure	bar and psi	R-12/134a/413A
49266	3-1/8" Blue compound	bar and psi	
49269	3-1/8" Red pressure	bar and psi	R-22/134a/404A
49270	3-1/8" Blue compound	bar and psi	

- * Features retard protection to 101 psi.
- ** Features retard protection to 350 psi. *** Features retard protection to 500 psi.

Replacement Crystal - for 3 1/8" Gauges

UPC# Description
49100 Replacement crystal

3-1/2" (90 mm) LIQUID-FILLED MANIFOLD GAUGES (°F and °C) **RED AND BLUE**

With 1% accuracy (Class 1) calibration



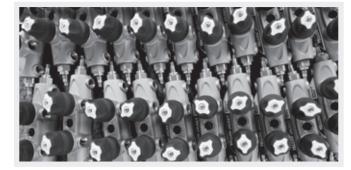
Gauges are completely filled with glycerin for maximum protection from pulsation. Large 3-1/2" (90 mm) diameter gauge with refrigerants color-coded on the dials in bold numbers. Offset stem fits all major manifold brands.

- · Now with zero adjustment
- 1/8" NPT Male connection
- Temperature rating of 0° to 122°F (-18° to 50°C)
- Calibrated to 1% accuracy (Class 1)



Universal Gauges (°F - Fahrenheit and °C - Celsius)				
UPC#	Description	Pressure scale		Refrigerants
49511 49512	3-1/2" Red pressure 3-1/2" Blue compound	0-500 psi (0 to 34 bar) 30"-0-120* psi (-1 to 8 bar)		R-22
49519 49520	3-1/2" Red pressure 3-1/2" Blue compound	0-800 psi (0 to 55 bar) 30"-0-300** psi (-1 to		R-410A
49193 49194	3-1/2" Red pressure 3-1/2" Blue compound	0-3000 psi (0 to 210 bar) 30"-0-1500 psi (-1 to 105 bar)		R-744
°F - Fahrenheit Gauges				
UPC#	Description	Pressure scale	Refrigerants	
49513 49514	3-1/2" Red pressure 3-1/2" Blue compound	0-500 psi 30"-0-120l psi	R-22/134a/404A	
49515 49516	3-1/2" Red pressure 3-1/2" Blue compound	0-800 psi 30"-0-300** psi	R-22/410A	
49517 49518	3-1/2" Red pressure 3-1/2" Blue compound	0-500 psi 30"-0-120* psi	R-134a/404A/407C	
°C - Celsius Gauges				
UPC#	Description	Pressure scale Refrigerant		Refrigerants
49521 49522	3-1/2" Red pressure 3-1/2" Blue compound	0-500 psi (0 to 35 bar) d 30"-0-116* psi (-1 to 8 bar) R-134a/ 404A/407C		

*Features retard protection to 350 psi. **Features retard protection to 500 psi.



2-1/2" (68 mm) MANIFOLD GAUGES (°F and °C) RED AND BLUE Class B



- Steel case with 3-2-3% accuracy
- High-visibility dials colored temperature scales for easy reading;
- Flutterless™ technology surge protector minimizes the needle pulsation for improved accuracy
- 1/8" NPT Male connection

Univer	Universal Gauges (°F - Fahrenheit and °C - Celsius)			
UPC#	Description	Pressure scale	Refrigerants	
49013	2-1/2" Red pressure	0 - 500 psi	R-134a	
49014	2-1/2" Blue compound	30"-0-120** psi	n-134a	
49035	2-1/2" Red pressure	0 - 800 psi/kg/cm ²	R-410A	
49036	2-1/2" Blue compound	30"-0-300*** psi/kg/cm ²	N=410A	
49053	2-1/2" Red pressure	0 - 55 bar (0-5.5 MPa)	R-410A	
49054	2-1/2" Blue compound	e compound -1 - 21 bar* (-0.1 - 2.1 MPa)		
°F - Fahrenheit Gauges				
HDC#	Description	Prossuro soalo	Dofrigorante	

LIPC#	Description	Pressure scale	Refrigerants
	•		Henrigerants
49001	2-1/2" Red pressure	0 - 500 psi	
49002	2-1/2" Blue compound	30"-0-120** psi	R-12/22/502
49015	2-1/2" Red pressure	0 - 500 psi	R-22/134a/404A
49016	2-1/2" Blue compound	30"-0-120** psi	N-22/134a/404A
49051	2-1/2" Red pressure	0 - 500 psi	R-134a/404A/507
49052	2-1/2" Blue compound	30"-0-120** psi	n-134a/404A/307
°C - Celsius Gauges			

°C - Celsius Gauges			
UPC#	Description	Pressure scale	Refrigerants
49027	2-1/2" Red pressure	kg/cm ² and psi	R-12/22/502
49028	2-1/2" Blue compound	kg/cm² and psi	N=12/22/302
49031	2-1/2" Red pressure	bar and psi	R-22/134a/407C
49032	2-1/2" Blue compound	bar and psi	N-22/134d/407G
49033	2-1/2" Red pressure	bar and psi	R-22/134a/404A
49034	2-1/2" Blue compound	bar and psi	N=22/134a/404A
49055	2-1/2" Red pressure	bar and psi	R-134a/404A/507
49056	2-1/2" Blue compound	bar and psi	n-134a/404A/307
49057	2-1/2" Red pressure	kg/cm ² and psi	R-134a/404A/507
49058	2-1/2" Blue compound	kg/cm² and psi	n-134a/404A/307
49063	2-1/2" Red pressure	bar and psi	R-134a/404A/407C
49064	2-1/2" Blue compound	bar and psi	n-134a/404A/407C

- * Features retard protection to 35 bar ** Features retard protection to 350 psi.
- *** Features retard protection to 500 psi

Note: Small screw in back is 6/32" x 5/32" Phillips pan head screw.

Note: Gauges not meant to be used with nitrogen.

Replac	Replacement Crystal - for 2 1/2" Gauges		
UPC#	Description		
49010	Replacement crystal		

DIGITAL MANIFOLD GAUGE (°F and °C) For Series 41 Digital Manifold

3-1/8" backlit LCD gauges provide easy-to-read accurate measurements for system pressures. This gauge is capable of handling maximum pressures of 800 psi, so there are no worries about over-pressurizing. The YELLOW JACKET Digital gauges provide clear, swift and accurate pressure measurements for all your system applications. Pre-programmed with 21 of the most common refrigerants.

Refrigerants

R-22, R-23, R-32, R-124, R-134A, R-290, R-404A, R-407C, R-407F, R-408A, R-410A, R-417A, R-427A, R-444B, R-448A, R-449A, R-452A, R-507, R-600A, R-1234YF, R1270

UPC#	Description
OF OT	Description

49017 Series 41 digital manifold

Gauge Specifications

- Pressure Range: -14.7 ~ 800 psi $(-1 \sim 54.4 \text{ bar})$
- Unit (Pressure): psi / bar / MPa / kg/cm2 / kPa
- Working Temperature: 14°F ~ 140°F (-10°C ~ 60°C)
- Pressure Accuracy: ±0.5% F.S @71.6~82.4°F (@22~28°C)
- Unit (Temperature): °F/°C
- Working Humidity: 35~85%
- Sampling Rate = 1.2 sec max.
- Auto-off: 10 minutes
- Zero pressure function
- Power Supply: Battery CR123A (3.0V, 1400mAh)
- Battery Life: 2 years for continuous operation without backlight
- · Warranty: One year



HEAVY DUTY 2-1/2" BRASS MANIFOLD GAUGES (°F and °C)

With 1% accuracy (Class 1) calibration



Solid brass case and premium movements. Heavy duty phosphor bronze and stainless steel internal components for longer service life under severe use.

- Flutterless[™] technology with brass surge protector to minimize needle pulsation
- 1/8" NPT Male connection
- Calibrated to 1% accuracy
- Full view glass crystal

	UPC#	Description	Pressure scale	Refrigerants
	49067	°F Brass pressure	0 - 500 psi	R-22/134a/404A
	49068	°F Brass compound	30"-0-120* psi	N=22/134a/404A
	Certified	d Gauges		
	49199	2-1/2" Brass pressure	0 - 500 psi	D 00/1046/404A
•	49200	2-1/2" Brass compound	30"-0-120* psi	R-22/134a/404A
•	49010	Replacement crystal (poly	carbonate) for old 490	011, 49012
	49039	Glass crystal for brass gauge		
	49040	Brass gauge ring		

*Features retard protection to 350 psi. Note: Gauges are not meant to be used with nitrogen.

PROTECTIVE GAUGE BOOTS

For 2-1/2" (63.5 mm), 3-1/8" (80 mm)

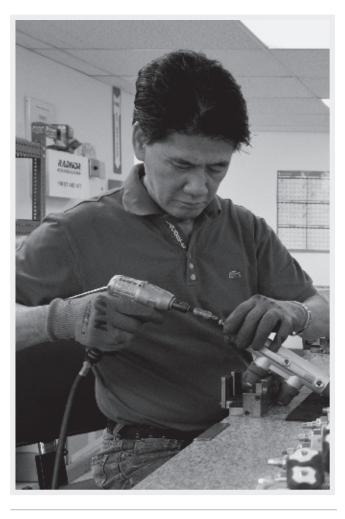


Rubber boots slip easily around gauges to cushion and protect them from impact.

- Fit 2-1/2" and 3-1/8" gauges without covering easy access recalibration screw
- · Color-coded red or blue to match gauge
- Made in the USA



UPC#	Description
49010	2-1/2" Polycarbonite Lens
49090	2-1/2" Set of gauge boots
49091	2-1/2" Red protective gauge boot
49092	2-1/2" Blue protective gauge boot
49100	3-1/8" Replacement Crystal
49190	3-1/8" Set of gauge boots
49191	3-1/8" Red protective gauge boot
49192	3-1/8" Blue protective gauge boot



LOW PRESSURE DIAPHRAGM 2-1/2" GAUGES



- The bronze diaphragm is designed for better protection on incidental overpressure
- Intended for low pressure applications only
- · Black steel case
- Cannot be recalibrated

UPC#	Description	Range
78056	2-1/2" Barb type connection	0-10" W.C.
78061	2-1/2" Barb type connection	0-35" W.C.
78057	2-1/2" 1/4" NPT Male connection	0-10" W.C.
78066	2-1/2" 1/4" NPT Male connection	0-35" W.C.

3-1/8" MECHANICAL VACUUM GAUGES



Full range mechanical Bourdon tube steel gauges for determining system vacuum is more accurate than a compound gauge. All gauges are 1/8" NPT Male bottom connection.

 Larger to show vacuum more accurately in inches of mercury and Torr (or millibar)

CAUTION: Vacuum gauges must be handled carefully. Dropping, pressurizing and rough handling reduce their life.

UPC#	Size	Scale	Connection	Case
69044	3-1/8"	0-30" Hg & 760-0 Torr	1/8" NPT Male lower	Green
69045	3-1/8"	1000-0 millibar & 30-0" (Euro)	1/8" NPT Male lower	Green
49100	3-1/8"	Replacement crystal		

2-1/2" AMMONIA GAUGES With dual scale



Ammonia gauges are designed for use on manifolds and as permanent gauges on any system or equipment charged with ammonia. The Bourdon tube is made of 316 stainless. The dials show dual temperature and pressure scales. All gauges are equipped with restrictors to protect the gauges against pulsating pressure.

- 1/4" NPT Male connection
- Black steel gauges
- Steel sockets
- Calibrated to 3-2-3% accuracy

UPC #	Description	Range
40201	2-1/2" Gauge with twist on polycarbonate crystal	30" - 0 - 400 psi °F and -0.1-0-28 bar °C
40202	2-1/2" Gauge with twist on polycarbonate crystal	30" - 0 - 150 psi °F and -0.1-0-10 bar °C
49010	2-1/2" Replacement crystal	







Refrigerant Recovery Machines

Built in purge circuit eliminates the need for external equipment and makes for easy clearing at the end of the job.

Superior condenser performance means the recovery tank stays cooler for a longer period of time, allowing you to recover more refrigerant without high-pressure cut-out.



TurboRecover® REFRIGERANT RECOVERY MACHINE NEW!

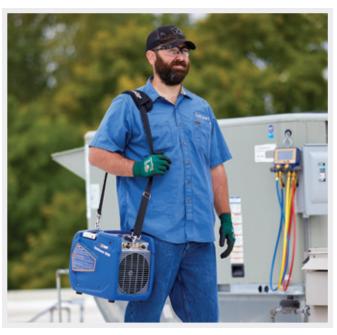


Outperforms in Speed and Simplicity!

- Fully automatic operation for fast recovery of Class III, IV and V refrigerants including R-410A and A2L refrigerants
- Powerful twin-cylinder, oil-less compressor and 1.25 hp Brushless DC (BLDC) motor ensures fast recovery
- Lightweight design and included shoulder strap allow for easy transportation
- Single valve control for simple operation and easy changeover from recover to purge
- Status indicator LED provides notification of machine faults and completed recovery
- Dual-gauge design allows for monitoring of the system and tank pressures simultaneously
- Low pressure switch provides automatic shut-off when unit reaches 10" of vacuum
- Integrated purge function clears residual refrigerant to prevent cross-contamination
- Reusable mesh particulate filter is integrated into the suction port and can be easily cleaned or replaced
- Controls and gauges inset for protection and angled for easy access and viewing
- Senses back pressure from tank and shuts off automatically at 517 psi for safety
- Locking power cord 10' eliminate the need for extension cord
- High air flow fan with a micro-channel condenser to keep the unit running cool
- Tested by UL to ARHI 740-2016
 CSA C22.2#100:2014 Ed.7+U1, UL 1004-7:2018 Ed.3+R:10 Aug2022
 CSA C22.2#77:2014Ed.8+E1, UL 1004-1:2012 Ed.2+R:07 Aug2018
- Ignition proof design tested and approved to ANSI/ISA 12.12.01:2016 Ed.7
- One-year warranty



*Turbo*Recover® has all the features you need for fast and effective refrigerant recovery.



Carry strap for easy transport to the job site.

UPC#	Description			
95780	Turbo Recover® for North America			
95782	Turbo Recover® for North America with Tank Overfill Switch			
EXPORT				
95783	Turbo Recover® with EU, UK and AU/NZ Power Cords			

RecoverXLT® REFRIGERANT RECOVERY MACHINE



- Single valve control for easy changeover from liquid to vapor to purge
- Robust compressor design for fast recovery of liquid and vapor refrigerant
- Advanced 1/2 hp, 1750 rpm oil-less twin cylinder compressor with precision valves
- Recovers refrigerant and shuts off when unit reaches 15" of vacuum
- Status indicator LED provides notification of machine faults and completed recovery
- Quiet running with components nested to reduce vibration and noise – oil-less compressor is inherently quiet
- Controls and gauges inset for protection and angled for easy access and viewing
- Senses back pressure from tank and shuts off automatically at 517 psi for safety



- Reusable mesh particulate filter inserts into suction port for protection – simple cleaning eliminates replacement due to clogging
- "On-the-fly" purge with turn of a knob to remove residual refrigerant and help prevent cross-contamination
- High efficiency fan keeps air moving across condenser for cool running even in hot weather
- High strength HDPE case for lightweight and rugged use
 rounded corners help protect from nicks and scrapes
- Tested by UL to ARI 740-98
 CSA C22.2#100:2014 Ed.7+U1, UL 1004-7:2018 Ed.3+R:10 Aug2022
 CSA C22.2#77:2014Ed.8+E1, UL 1004-1:2012 Ed.2+R:07 Aug2018
- One-year warranty also includes three-year compressor warranty on domestic models (one year on INTL models)
- Designed and manufactured in the USA



UPC#	Description
95760	RecoverXLT® 115V/60 Hz
95762	RecoverXLT® 115/60 Hz with tank overfill switch
95765	RecoverXLT® 115/60 Hz (IEC 60309 plug)

RecoverXLT2-AP™ REFRIGERANT RECOVERY MACHINE



The drive to lower global warming potential refrigerants with increased flammability has necessitated the evolution of the market leading YELLOW JACKET® RecoverXLT® recovery machine: The new RecoverXLT2-AP™ Refrigerant Recovery Machine with twin cylinder 1/2 hp oil less compressor and gravity drain condenser. The unique "ambient pressure switch" and three meter power cord comply with the current safety requirements. The RecoverXLT2-AP® is specifically designed for the new lower GWP refrigerants including R-32, R-1234yf and R1234ze as well as the most common CFC, HFC and HFO refrigerants, including R-22, R-404A, R-407, R-410A, R-448A and R-449A.



- 1/2 hp, twin cylinder, oil-less compressor for fast recovery of Class III, IV and V refrigerants including R-32, R-1234yf and R-1234ze.
- Safe venting of case interior prior to start up.
- Low pressure switch stops recovery above ambient pressure for leaking systems to prevent pulling air into recovery cylinders.
- Low pressure bypass for recovery of leak-free systems.



*Not tested and approved for use in the U.S.A.

RECOVERY MACHINE COMPARISON CHART

Features	RecoverXLT #95	760/95762	Recove	rXLT2-AP	#95764**	Recov	er XLT #9576	55
Recovery capabilities	Vapor, liquid, pus	sh/pull	Vapor, I	iquid, push/	/pull	Vapor, I	iquid, push/ _l	pull
Compressor	1/2 hp oil-less		1/2 hp	1/2 hp oil-less		1/2 hp oil-less		
Weight	32.6 lbs. (14.78 kg)		32.6 lbs	32.6 lbs. (14.78 kg)		32.6 lbs	32.6 lbs. (14.78 kg)	
Size L x W x H inches Size L x W x H mm.	19.3 x 12.4 x 12.5 490 x 315 x 317			19.3 x 12.4 x 12.5 490 x 315 x 317			19.3 x 12.4 x 12.5 490 x 315 x 317	
Refrigerant compatibility	12, 22, 134a, 407 500, 502, HP, MP			32, 1234yf, 1234ze, 22, 404A, 407, 410A, 448A, 449A and more			12, 22, 134a, 407C, 410A, 500, 502, HP, MP and blends	
Volts/Hertz	115V/60 Hz		230V/50	230V/50-60 Hz		110V/5	110V/50 Hz	
Tank overfill sensor	95760 No / 95762	2 Yes	No			No		
Low pressure shut-off sensor	Standard		Standa	rd		No		
Inlet mesh filter screen	Included		Include	d		Include	d	
Inlet filter dryer	Optional filter ava	ailable for use on c	ontaminated a	and burn-ou	t systems; use a filte	er of adequa	te size (P/N :	95014).
Suction and discharge pressure gauges	Standard		Standa	rd		Standa	rd	
Upgraded higher suction and discharge pressure gauges	Standard		Standa	rd		Standa	rd	
Upgraded single higher pressure switch	Standard		Standa	Standard		Standard		
External circuit breaker	Standard		Standa	Standard		Standard		
Plug	U.S.		Euro, U	Euro, UK, AU and NZ		IEC 60309		
Warranty	1 year parts and labor; 3 years compressor		1 year	1 year			1 year parts and labor; 3 years compressor	
Certified to ARI standard	ARI 740-98							
Testing agency	UL		UL	UL		UL		
CUL listed	Yes		No	No		No		
CE marked	No		Yes			Yes		
Applicable ARI standard	740-98		740-98			740-95		
Recovery rating in lbs./min.	Vapor Push/Pu	ıll Liquid	Vapor	Push/Pull	Liquid	Vapor	Push/Pull	Liquid
R-12	0.33 13.49	1.98	0.22	8.99	1.32	0.22	8.99	1.32
R-22	0.33 13.49	1.98	0.22	8.99	1.32	0.22	8.99	1.32
R-134a	0.33 13.49	1.98	0.22	8.99	1.32	0.22	8.99	1.32
R-410A	0.48 12.21	1.68	0.32	8.14	1.12	N/A	N/A	N/A
R-500	0.33 13.49	1.98	0.22	8.99	1.32	0.22	8.99	1.32
R-502	0.59 13.58	2.65	0.39	9.05	1.77	0.39	9.05	1.77
Recovery rating in kg./hr.*	Vapor Push/Pu	II Liquid	Vapor	Push/Pull	Liquid	Vapor	Push/Pull	Liquid
R-12	9.00 367.20	54.00	6.00	244.80	36.00	6.00	244.80	36.00
R-22	9.00 367.20	54.00	6.00	244.80	36.00	6.00	244.80	36.00
R-134a	9.00 367.20	54.00	6.00	244.80	36.00	6.00	244.80	36.00
R-410A	13.20 332.40	45.60	8.80	221.60	30.40	N/A	N/A	N/A
R-500	9.00 367.20	54.00	6.00	244.80	36.00	6.00	244.80	36.00
R-502	16.20 369.70	72.00	10.80	246.40	48.00	10.80	246.40	48.00

^{*}ARI tests are only one way to evaluate recovery speed. In other testing conditions the units can exhibit much higher performance rates. ARI rates are a "level field" comparison method.

^{**}Rates do not include 95764. Calculated recovery ratings for this product can be found at www.yellowjacket.com

PARTS FOR R 50A, R 60A, R 70A, R 100



Mesh particulate filter for YELLOW JACKET® recovery machines remove particles to protect units. Easy to clean and reuse or replace.



UPC#	Description
95134	Screens R 70a Series (4 pak)
95136	Screens R 80a, R 100 Series (4 pak)
95139	Screens R 60 and R 60a Series (4 pak)
95141	Screens RST (4 pak)
95342	Replacement brass bulkhead fitting for R 60a and R 70a
95343	Replacement "O" ring for R 60a and R 70a (3 pak)
95538	R 60 solid state TOS board

WRAP-AROUND HEATER FOR REFRIGERANT CYLINDER

- Fits 30, 50 and 125 lb. cylinders
- Thermostat controlled with maximum 130°F (54°C) and minimum 120°F (48.8°C) (surface temperature of tank)
- Cycles on/off to maintain surface temperature
- 200 watt, 115V or 230V
- 20" velcro straps and 6' cord



UPC#	Description
68848	Wrap-around cylinder heater 115V
68849	Wrap-around cylinder heater 230V

SIGHT GLASS



Use with YELLOW JACKET® RecoverX and RecoverXLT machines. Indicates when all liquid has been recovered so you can switch immediately to vapor cycle and speed up the recovery process. 1/4" flare x 1/4" female flare.



UPC#	Description
41145	Sight glass with 1/4" connections

THE TRAP SEPARATOR

High porosity filter effectively traps sealant, dye and lubricant so only pure refrigerant exits to your recovery equipment. Filter replacement is easy in less than five minutes.



38081



PARTS FOR RECOVERX AND RECOVERXLT®

UPC#	Description
95156	Circuit breaker (12 AMP)
95190	Capacitor (115V Machine)
95187	Relay (115V Machine)
95188	Shorting cap for umbilical cord
95210	Large cord strain relief bushing
95215	Power cord (U.S.)
95216	Rocker switch
95248	Umbilical cord overfill sensor
95294	Fan clip
95325	High pressure switch
95338	Low pressure switch
95444	Case, front
95445	Case, rear
95446	Case, half (both halves)
95447	Case, cord wrap
95448	Aluminum frame
95449	Compressor bracket grommet (5 pk)
95450	Condensor coil
95451	High pressure gauge
95452	Low pressure gauge
95453	Manifold assembly
95456	Neon lamp (115V Machine)
95528	CPR valve
95455	Fan blade
95457	Replacement filter screen
95477	TOS LED strip assembly
95527	Solid state TOS board
95538	R 60 solid state TOS board

REFRIGERANT RECOVERY CYLINDERS FOR R-410A

These gray and yellow 30 and 50 lb. cylinders feature "Y" valve for liquid/vapor, 400 psi rating and 3/4" plug for a float switch.

	UPC#	Description
	95002	30 lb. 400 psi cylinder DOT 400
	95007	50 lb. 400 psi cylinder DOT 400
	95012	30 lb. 400 psi cylinder DOT 400 with float switch
A A	95013	50 lb. 400 psi cylinder DOT 400 with float switch

RECOVERY BURNOUT FILTER FOR DIRTY SYSTEMS

UPC#	Description
95014	Recovery filter

High capacity in-line filter drier removes moisture and oil breakdown products, as well as acid from burnt out systems. Attaches directly to refrigerant recovery system with a 1/4" female and a 1/4" male connection. UL and CSA listed.











Vacuum Pumps

Select from a complete line of Vacuum Pumps that meet your needs.



DETECTORS AND

SuperEvac® PLUS II VACUUM PUMPS





Enhancements to Improve Performance and Ergonomics:

- Convenient shoulder strap for easy carrying over long distances with built-in mount points.
- · Smaller oil bath requires less oil
- Built-in cooling fins to cool pump and increase performance
- Anti-suckback valve
- Elongated oil sight glass easier to see oil level
- Tethered oil drain plug

The SuperEvac® PLUS II Vacuum Pump is a highly efficient, two-stage rotary vane oil-sealed pump field-rated at 15 microns or better.

- · Designed for use with A2L systems
- Isolation valve for oil changes without losing vacuum in the system
- Gas ballast valve keeps oil cleaner, longer during evacuation
- Internal intake check valve to help prevent oil backup into the system during a power failure
- Intake filter screen keeps damaging particles from entering the pump
- · Heavy duty rotors and bearings
- Built-in vacuum gauge
- Wide mouth oil reservoir port for easier, cleaner filling. Doubles as a pump exhaust - threaded to attach a garden hose for exhausting to a remote location
- Large brass oil drain for easy access to fast oil changes
- Downward angled oil pump to remove contaminants usually trapped in other sump designs
- Non-sparking switch for A2L compliance
- Locking, low-profile IEC connector with 9'10" (3 meter) power cord to prevent accidental removal
- · Heavy duty steel handle
- Lift hook for hoisting pump to rooftops
- Two-year warranty
- Made in the USA



DOMESTIC	Model 93740	Model 93760	Model 93780	Model 93790
Free air desplacement	4.0 cfm	6.0 cfm	8.0 cfm	11.0 cfm
Number of stages	2-stage rotary vane	2-stage rotary vane	2-stage rotary vane	2-stage rotary vane
Field blankoff	15 microns	15 microns	15 microns	15 microns
Intake	1/4" and two 3/8" Male flares	1/2", 3/8", 1/4" Male flares	1/2", 3/8", 1/4" Male flares	1/2", 3/8", 1/4" Male flares
Motor	BLDC 1/2 hp	BLDC 1/2 hp	BLDC 1/2 hp	BLDC 1/2 hp
Thermal overload protection	Yes	Yes	Yes	Yes
Voltage (single phase) Factory voltage setting	100-127V/220-240V, 50-60 Hz; Factory set at 115V			
Power cord	9'10"cord (3 meter) locking IEC			
Oil capacity	36 oz.	36 oz.	28 oz.	28 oz.
Dimensions	16" L x 6" W x 11.5" H (40.6 cm X 15.2 cm X 29.2 cm)	16" L x 6" W x 11.5" H (40.6 cm X 15.2 cm X 29.2 cm)	17.5" L x 6" W x 11.5" H (44.5 cm X 15.2 cm X 29.2 cm)	17.5" L x 6" W x 11.5" H (44.5 cm X 15.2 cm X 29.2 cm)
Net weight	24.6 lbs. (11.2 kg)	25.9 lbs. (11.7 kg)	26.8 lbs. (12.2 kg)	28.4 lbs. (12.9 kg)
INTERNATIONAL	Model 9374x	Model 9376x	Model 9378x	Model 9379x
Free air desplacement	113 L/M	170 L/M	225 L/M	310 L/M
Motor	BLDC 1/2 hp	BLDC 1/2 hp	BLDC 1/2 hp	BLDC 1/2 hp
Motor voltage (dual phase)	100-127V/220-240V, 50-60 Hz	100-127V/220-240V, 50-60 Hz	100-127V/220-240V, 50-60 Hz	100-127V/220-240V, 50-60 Hz
Dimensions	16.75" L x 6" W x 11.5" H (42.5 cm X 15.2 cm X 29.2 cm)	16.75" L x 6" W x 11.5" H (42.5 cm X 15.2 cm X 29.2 cm)	18.25" L x 6" W x 11.5" H (46.4 cm X 15.2 cm X 29.2 cm)	18.25" L x 6" W x 11.5" H (46.4 cm X 15.2 cm X 29.2 cm)
Net weight	24.6 lbs. (11.2 kg)	25.9 lbs. (11.7 kg)	26.8 lbs. (12.2 kg)	28.4 lbs. (12.9 kg)
Model #	93742 (95 L/M at 50 Hz)	93762 (142 L/M at 50 Hz)	93782 (190 L/M at 50 Hz)	93792 (260 L/M at 50 Hz)
US plug	(113 L/M at 60 Hz)	(170 L/M at 60 Hz)	(225 L/M at 60 Hz)	(310 L/M at 60 Hz)
Factory voltage setting	230V	230V	230V	230V
Model # Euro Plug	93743 (95 L/M at 50 Hz)	93763 (142 L/M at 50 Hz)	93783 (190 L/M at 50 Hz)	93793 (260 L/M at 50 Hz)
Factory voltage setting	230V	230V	230V	230V
Model #	93744 (95 L/M at 50 Hz)	93764 (142 L/M at 50 Hz)	93784 (190 L/M at 50 Hz)	
AU/NZ plug	(113 L/M at 60 Hz)	(170 L/M at 60 Hz)	(225 L/M at 60 Hz)	
Factory voltage setting	230V	230V	230V	
Model # UK Plug	93747 (95 L/M at 50 Hz)	93767 (142 L/M at 50 Hz)	93787 (190 L/M at 50 Hz)	
Factory voltage setting	230V	230V	230V	
III parts listed will not work with NH ₃ .				

For replacement parts, refer to the manual (also available at yellowjacket.com)

BULLET®DC VACUUM PUMPS



DOMESTIC	MODEL 93870		
Free air displacement	7.0 cfm		
Number of stages	2-stage rotary vane		
Field blankoff	25 microns		
Intake	1/4" x 3/8" x 1/2"		
Motor	BLDC 1/2 hp		
Thermal overload protection	Yes		
Voltage (single phase)	100-127V/220-240V, 50-60 Hz; factory set at 115V		
Power cord	9' 10" cord (3 meter) locking IEC		
Oil capacity	28 oz. (0.828 L)		
Dimensions	17.5" L x 6" W x 12" H (44.5 cm x 15.2 cm x 30.5 cm)		
Net weight	27.5 lbs. (12.5 kg) filled		

High Torque, High Efficiency, Brushless DC (BLDC) Motor

- Easily handles supply voltage variations especially low-voltage conditions
- Starts and stops in extreme low temperatures
- · Rated for use with A2L refrigerants
- 20% lighter than AC motor-driven pump
- Pulls down to 25 microns or better
- Optional shoulder strap (P/N 92965)
- Internal intake check valve to help prevent oil backup into the system during a power failure



- Intake filter screen keeps damaging particles from entering the pump
- Wide mouth oil reservoir port for easier, cleaner filling.
 Doubles as a pump exhaust threaded to attach a garden hose for exhausting to a remote location
- Large brass oil drain for easy access to fast oil changes
- Downward angled oil pump to remove contaminants usually trapped in other sump designs
- Locking, low-profile IEC connector with 9'10" (3 meter) power cord to prevent accidental removal
- Two-year warranty
- Made in the USA



EXPORT	93872	93873	93874	93877		
Detachable IEC cord type	US	EU	AU/NZ	UK		
Free air displacement	200/165 L/M					
Motor	BLDC 1/2 hp					
Motor voltage (dual phase)	100-127V/220-240V, 50-60 Hz; factory set at 230V					
Dimensions	17.5" L x 6" W x 12" H (44.5 cm x 15.2 cm x 30.5 cm)					
Net weight	27.5 lbs. (12.5 kg) filled					

BULLET®X VACUUM PUMPS

- Built-in cooling fins to cool pump and increase performance
- Improved oil suck -back valve
- Elongated oil sight glass easier to see oil level
- Internal intake check valve to help prevent oil backup into the system during a power failure
- Intake filter screen keeps damaging particles from entering the pump
- Heavy-duty rotors and bearings
- Wide mouth oil reservoir port doubles as pump exhaust; threaded to attach garden hose for exhausting to remote location.
- Vacuum/moisture boiling point chart
- Two-year warranty



Domestic	Model 93600	
Free air displacement	7.0 cfm	
Number of stages	2-stage rotary vane	
Field blankoff	25 microns	
Intake	1/4" x 3/8" x 3/8"	
Motor	1/2 hp - 1725 rpm	
Thermal overload protection	Yes	
Voltage (single phase)	115V/60 Hz	
Power cord	6' - motor mounted switch - U.S. plug	
Oil capacity	28 oz. (0.828 L)	
Dimensions	17.5" L x 6" W x 12" H (44.5 cm x 15.2 cm x 30.5 cm)	
Net weight	31.7 lbs. (14.4 kg)	
Export	EU/UK 93610; AU/NZ 93620	
Detachable IEC Cord type	EU/UK AU/NZ	
Free air displacement	200/165 L/M	
Motor (€	1/2 hp - 1725/1425 rpm	
Voltage (dual phase)	115/230V / 50-60 Hz	
Dimensions	18" L x 6" W x 12" H (45.7 cm x 15.2 cm x 30.5 cm)	
Net weight	34.5 lbs (15.7 kg)	

For replacement parts, refer to the manual at yellowjacket.com

INSTRUMENTS

YJII® VACUUM PUMPS

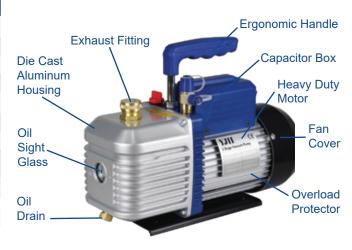


SPECIFICATIONS	93266	93265 INTL
Free Air Displacement	5 cfm	4 cfm 95 L/M
Ultimate Vacuum	25 microns	25 microns
Number of Stages	2 Stage	2 Stage
Motor	1/2 hp - 1725 rpm	1/2 hp - 3000 rpm
Intake Ports	1/4" and 3/8" SAE	1/4" and 3/8" SAE
Voltage (single phase)	120V (50-60 Hz)	220-240V (50-60 Hz)
Oil Capacity	18 oz (532 ml)	532 ml
Dimensions	13" x 5" x 11"	330 mm x 127 mm x 279 mm
Weight	25.3 lbs (11.5 kg)	10.9 kg

UPC# Description	
93266	YJII® Vacuum Pump 5cfm
93265	YJII® Vacuum Pump 4cfm INTL

YJII® is a compact, lightweight, portable and affordable pump for servicing small systems.

- Deep ultimate vacuum
- Quick flow rate
- Wide range of applications
- · Lightweight, durable aluminum housing
- Small and portable
- Reliable runs steadily for long periods
- Thermal protector in motor to guarantee pump runs steadily and safely
- · High torque motor design for easy start-up and efficient operation, even in the harshest conditions
- 1/4" and 3/8" SAE flare inlet connections allow for flexibility of hose fittings/sizes
- 3/4" garden hose exhaust fitting with removable cap for venting
- Oversized 3/8" oil drain for faster oil changes
- Vacuum pump oil included
- · One-year warranty



MaxFlow™ EVACUATION KITS



- Perform A/C and refrigeration system evacuations more than 5x faster than using 1/4" hoses
- · Reduce the time it takes to pull and hold vacuum leaving a tight and dry system
- 1/4" (93887) and 5/16" (93889) Core/Vacuum/Charge Tools removes cores that cause restriction
- 1/2" large diameter hose creates full, quicker flow
- · Heavy duty hose won't collapse
- · Vacuum rated to 20 microns
- Opens up over 90% of internal diameter of access hose
- Made in the USA

UPC#	Description
93887	MaxFlow™ Evacuation Kit 3/8" x 1/4" 45°
93889	MaxFlow™ Evacuation Kit 3/8" x 5/16" 45°

BULLET®X NH3 AMMONIA VACUUM PUMP



The capabilities of our BULLET®X NH₃ Ammonia Vacuum Pumps make it the premier vacuum pump for ammonia refrigeration and chiller applications. Our newest generation features many benefits to make your job faster and easier, and is brass-free down to the smallest screw for lifelong durability in ammonia applications.

BULLET®X NH $_3$ Ammonia is a highly efficient, two-stage rotary vane, oil-sealed pump – field rated to 25 microns or better. The upgraded BULLET®X NH $_3$ Ammonia combines some of the same great features and benefits with enhancements to improve ergonomics and performance.



Specifications	Model 93530	Model 93533	Model 93539
Free air displacement	8.0 cfm	190 L/M @50 Hz	190 L/M @50 Hz
Number of stages	2-stage rotary vane	2-stage rotary vane	2-stage rotary vane
Field blankoff	25 microns	25 microns	25 microns
Intake	3/4" NPT	3/4" NPT	3/4" NPT
Motor	1/2 hp - 1725 rpm	1/2 hp - 1725 rpm	1/3 hp - 1425 rpm
Thermal overload protection	Yes	Yes	Yes
Voltage (single phase)	115V/60 Hz	115/230V/50-60 Hz	100V/50 Hz
Power cord	6' US plug - motor mounted switch	8' EU plug - motor mounted switch	8' US plug - motor mounted switch
Oil capacity	28 oz	28 oz	28 oz
Dimensions	17.5" L x 6" W x 11.5" H (44.5 cm x 15.2 cm x 29.2 cm)	17.5" L x 6" W x 11.5" H (44.5 cm x 15.2 cm x 29.2 cm)	17.5" L x 6" W x 11.5" H (44.5 cm x 15.2 cm x 29.2 cm)
Net weight (lbs)	33.0 lbs (15 kg)	37.0 lbs (16.75 kg)	37.0 lbs (16.75 kg)

For replacement parts, refer to the manual (also available at yellowjacket.com)



VACUUM PUMP OIL

YELLOW JACKET® vacuum pump oil is specially refined and formulated for extremely low vapor pressure and high pump efficiency at all temperature conditions to help keep your pump running for years.



SDS sheet on website

UPC#	Description
93091	Pint of vacuum oil - 24 per case
93092	Quart of vacuum oil - 12 per case
93096	Gallon of vacuum oil - 6 per case



OIL EXHAUST FILTER

Screws onto the pump exhaust to eliminate oil mist. Use on SuperEvac $^{\text{TM}}$ and BULLET $^{\text{®}}$ pumps.



UPC#	Description
93386	Exhaust filter
93387	Replacement element

SUPEREVAC® EVACUATION MANIFOLDS



SUPEREVAC® manifolds are engineered as system components for the SuperEvac® pumps to help decrease vacuum time by over 50 percent and improve micron readings. Mounts with 1/2" or 3/8" Female flare guick coupler and provides easy connections for two 3/8" vacuum hoses.

- Flutterless[™] gauge
- · Non-restricting, full flow valves for fast vacuum
- Convenient 1/4 turn full flow
- Extra port for electronic gauge
- Now includes step-down adapter to connect to 3/8" pump intake
- Made in the USA



3/8" Fem	3/8" Female flare coupler	
UPC#	Description	
93851	Single valve with 1/4" Schrader mount with 3/8" Female flare	
93852	Single valve with lo-side gauge mount with 3/8" Female flare	
93853	Two valves with lo-side gauge mount with 3/8" Female flare	
19011	19011 CH-11 gasket (10 pak)	
19131	Pump step-down adapter - 1/2" Female flare to 3/8" Male flare	

1/2" Fem	1/2" Female flare coupler	
UPC#	UPC# Description	
93850	Single valve with 1/4" Schrader mount with 1/2" Female flare	
93855	Single valve with lo-side gauge mount with 1/2" Female flare	
93860	Two valves with lo-side gauge mount with 1/2" Female flare	
19015	CH-80 gasket (10-pak)	
19133	Pump step-up adapter - 3/8" Female flare to 1/2" Male flare	

Additiona	Additional replacement parts	
UPC#	Description	
19030	3/8" "O" ring (10 pak)	
19096	Ball valve replacement handles (2 pak)	
40272	1/4" Male flare with Schrader for 93850	
41139	3/8" Male flare x 1/4" NPT Male fitting	
49016	Blue compound °F gauge	
77921	1/4" Flare x 1/8" NPT Male elbow	
93211	3/8" Flare cap with gasket	
93854	1/2" Flare connector	
93847	3/8" Flare connector for 93846	
93858	3/8" Flare connector for 93851-53	

SuperEvac® EVACUATION **SYSTEMS I, II & III**



All system components are available separately, but system pricing makes I, II and III attractive buys.



All systems include a two-valve manifold and two 3/8" vacuum hoses for a fast vacuum. Vacuum valves, included with all systems, allow core removal and system isolation. This combination reduces vacuum time by over 50 percent compared to using a regular 1/4" manifold and evacuating through only one side.

System II adds 69075 electronic gauge and standard ratchet wrench to the basic System I.

System III adds a 6 or 8 cfm SuperEvac™ pump to System II.

UPC# for 1/2"	Description	UPC# for 3/8"
93865	System I: 2-valve manifold, 2 16248 48" vacuum hoses, 2 valves	93866
93875	System II: all of above plus 69075 electronic vacuum gauge and ratchet wrench	93876
93886 (8 cfm)	System III: all of above plus a SuperEvac pump	93885 (6 cfm)
	CH-11 gasket (10 pak)	19011
19015	CH-80 gasket (10 pak)	

1/4" AND 5/16" BALL VALVE 4-IN-1 **VACUUM/CHARGE VALVE & CORE TOOL**



This versatile tool for the lo- or hi-side of a system does four jobs:



18975

- 2. Core removal access. Lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum.
- 3. Core replacement.
- 4. Recovery valve. Core removal speeds recovery process.

Made in the USA

UPC#	Description
18971	1/4" Vacuum/charge valve without side port
18975	1/4" Vacuum/charge valve with side port
18981	5/16" Vacuum/charge valve without side port
18985	5/16" Vacuum/charge valve with side port
18986	1/4" Male x 5/16" female vacuum/charge valve

OMNI™ DIGITAL VACUUM GAUGE



The YELLOW JACKET® OMNI™ Digital Vacuum Gauge is an easy-to-use, compact vacuum gauge that is loaded with features for the price. And it's rugged, too. Made with high impact, glass reinforced housing, it survives moisture and accidental drops or attachment to a high pressure line. The easy-to-clean vacuum sensor handles 450 psi positive pressure and reads several units of vacuum (microns, millibar, Torr and Pascal).

- · Visual signal when target vacuum level is reached
- Electronic paper display for clear visibility even in direct sunlight
- · Rich and intuitive user interface turn it on and it is ready to use with default settings
- 45° bend for fitting (1/4" or 5/16")
- · Automatic power down and time out
- · Power savings multiple time-out selections
- · Low battery indicator and automatic power-down when inactive
- · Adapter fittings available
- Made in the USA



Compact, easy-to-use, and more unique features than any other unit on the market.

Specifications

Vacuum Reading Resolution:

1 micron (from 1,000 to 5 microns) 10 microns (from 10,000 to 1,000 microns)

100 microns (from 99,999 to 10,000 microns)

+/- 20% of reading (from 10,000 to 25 microns)

Vacuum Reading Range:

5 to 99,999 Microns

Display Vacuum Measurement Accuracy:

(133.3 mBar, 100 Torr, 13,333 Pa); Progress bar-graph from Atmosphere (ATM)

to 99,999 Microns

Proof Pressure: 450 psi

Working Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -4°F to 140°F (-20°C to 60°C) Working Humidity: 0-95% RH (non-condensing) I

Class:

Battery Life: 150+ hours continuous Battery: (2) AAA batteries (included) Size: 6" long x 1.6" wide x 1.6" thick

including fitting (15.3 x 4 x 4 cm)

Weight: 0.39 lb (175 grams)

Warranty One year

UPC#	Description
69020	OMNI™ Digital Vacuum Gauge with 1/4" Coupler
69021	OMNI™ Digital Vacuum Gauge with 5/16" Coupler



VACUUM SENSOR CLEANING KIT

Follow cleaning procedure for these YELLOW JACKET® vacuum gauges: 69020 series OMNI™, 67044 series used with P51 digital manifold and Mantooth gauges or 69086 digital vacuum gauge.

Made in the USA



UPC# Description		Description
	69030	Vacuum Sensor Cleaning Kit

SuperEvac® LCD VACUUM GAUGE Full range from atmosphere to 1 micron

The SuperEvac® LCD vacuum gauge combines thermocouple sensor technology with advanced electronics for precise readings and repeatability not found with thermistor sensors or analog meters.

Thermocouple technology has long been proven in laboratory and precision industrial instrumentation for sensing the deep vacuum range. Thermocouple sensors are factory calibrated and exhibit few of the electronic variances of thermistor sensors found in many other electronic gauges. Durable molded case with storage for sensor, cable and brass connector.

Specifications

Response time: 3 seconds Calibration: Automatic Warm up: 3 seconds

Sensor cable: 5.5' (167 cm) coiled Sensor connection: 1/4" Male flare

Maximum pressure: To avoid sensor damage, do not exceed 5 psig

Operating temperature range: 32° to 120°F (0° to 49°C)

Display: 0.5" LCD with battery check

Automatic shut-off: Yes

Power: D cell battery, 70 hours continuous battery life **Dimensions:** 9" x 12.25" x 2.37" (230 mm x 310 mm x 60 mm) Accuracy: ± 20% of reading from 10 to 10,000 microns

UPC#	Description
69075	SuperEvac® LCD vacuum gauge full range complete in case
69067	Optional ball valve to add to sensor 1/8" NPT Female x 1/4" Female flare
69071	Brass connector 1/4" Female flare x 1/4" Female flare
69073	Replacement sensor for 69070, 69075
19110	Optional coupler to add to sensor 1/8" NPT Female x 1/4" Female flare
69058	Replacement cord



Thermocouple sensor features:

- No adjustments or warm-up. Stays calibrated after on/off switching and long evacuations
- Automatic battery compensation
- Automatic ambient temperature compensation
- · Replacement sensor requires no calibration

LCD gauge features:

- Automatic off 20 minutes after power up and no change
- Normal handling and jarring will not affect the LCD reading
- · Case protects electronic circuitry and sensor
- Calibration standards traceable to NIST
- Precision circuitry controls sensor and translates sensor input into micron readings
- Made in the USA



DIGITAL LCD ECONOMY VACUUM GAUGE



This product is protected by one or more of U.S. Patent Number: 6,779,350; 6,832,491; 7,073,346; 7,310,965; and 7,428,822.

The digital LCD economy vacuum gauge indicates air and moisture have been removed from the system. Track down the 14 level bargraph from atmosphere to 25 microns to know that the system is clean and the vacuum pump is performing properly. Packaged complete with 9V alkaline battery and hanging hook.

- Unique thermal conductivity sensor automatically compensates for temperature with no calibration
- Simple On/Off controls
- Easy-to-clean sensor handles 450 psi positive pressure
- Rugged contractor-grade construction with tough ABS housing and solid state circuitry for accuracy
- Automatic battery saver shuts gauge off after 20 minutes with no reading changes
- · Low battery indicator
- · Calibration standards traceable to NIST
- Patented technology
- Made in the USA



To keep the 69080 vacuum gauge accurate, it is best to avoid oil contamination. Keep the sensor vertical whenever possible and connect the gauge directly to the system, away from the pump.

UPC#	Description
69080	Digital LCD vacuum gauge with battery, hook and pouch
69081	Replacement soft-sided protective case
69079	Replacement battery door and screw
69095	Tee fitting

DIGITAL VACUUM GAUGE

Seven units of vacuum for confidence

This easy-to-use gauge shows that air and moisture have been removed from the system. Simple push of a button changes the display readout between 7 units of measurement. Each displays from atmosphere to 10 microns (bargraph indication above 25000 microns) of vacuum to let you know that your vacuum pump is clean and performing properly. If the sensor gets dirty, simply plug a new sensor into the gauge, run through a quick calibration process and be back on the job within minutes.



This product is protected by one or more of U.S. Patent Number: 6,779,350; 6,832,491; 7,073,346; 7,310,965; and 7,428,822.

- Unique patented thermal conductivity sensor automatically compensates for temperature
- Replaceable, cleanable, plug-in sensor (Part #69087) handles 450 psi positive pressure
- Displays seven different units of vacuum (microns, milliTorr, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)
- 12" coiled sensor cord stretches to 24" for easy reach, connectivity and readability of display
- · Low battery indicator
- Automatic shut-off after 20 minutes
- Calibration standards traceable to NIST
- \bullet 32° to 122°F (0° to 50°C) operating temperature range
- 14 oz. (392 g) with battery
- Approximately 25 hours continuous battery life
- Accuracy ±20% of reading
- Made in the USA

UPC#	Description
69086	Hand-held vacuum gauge with fabric carry pouch
69087	Replacement sensor for older models without detachable cords
69088	Replacement cable for original version - not detachable
40819	Replacement cable for new version - detachable
69101	Replacement sensor and cord assembly
69091	Replacement fabric pouch
69030	Vacuum Sensor Cleaning Kit

VACUUM PUMP ADAPTER

Convert a 3/8" or 1/2" vacuum pump intake into flare and Acme compatible fittings.





MADE IN THE USA

UPC#	Description
36018	1/2" Pump adapter with 1/4" flare and 1/2" Acme Male fittings
19015	1/2" Replacement gaskets for 36018 (10 pak)
36019	3/8" Pump adapter with 1/4" flare and 1/2" Acme Male fittings
19011	3/8" Replacement gaskets for 36019 (10 pak)

VACUUM PUMP INTAKE REDUCER ADAPTER





UPC#	Description
19030	Rubber gasket "O" ring (10 pak) for 19130 and 19133
19130	3/8" Female fl. x 1/4" Male fl. adapter
19131	1/2" Female fl. x 3/8" Male fl. adapter
19132	1/2" Female fl. x 1/4" Male fl. adapter
19133	3/8" Female fl. x 1/2" Male fl. adapter
19160	1/2" Female fl. x 1/2" Male Acme adapter
93058	Rubber gasket "O" ring for 19131, 19132 and 19160

HEAT GUN

600° and 1000°F settings. Shockproof and tough housing is durable and lightweight. Use for:

- Coil defrosting
- Faster vacuums
- Drying out condensation in motors, clutches, etc.

Kits include gun, adapters and case.

69092 Heat gun kit 115V - UL, CSA	

MECHANICAL VACUUM GAUGES



Mechanical vacuum gauges for system installation. Bourdon tube type gauge. 1/8" NPT Male bottom fitting. CAUTION: Handle gauges carefully to assure full service life. See page 53 for further details.

UPC#	Description	
69044	3 1/8" Vacuum gauge 0-30 inHg/760-0 Torr (mm)	
69045	3 1/8" Vacuum gauge European version (1000-0 millibar/30-0 inch)	





2. GAUGES

3. RECOVERY MACHINES

4. VACUUM PUMP SYSTEMS

6. HOSE ADAPTERS, VALVES & PARTS

7. WIRELESS AND ELECTRONIC INSTRUMENTS

8. LEAK
DETECTORS AND
MONITORS

9. HEATING INSTRUMENTS

10. SYSTEM TOOLS



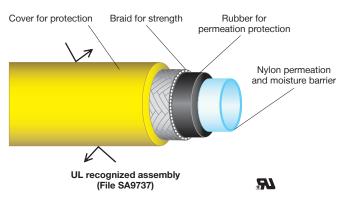


PLUS II™ HOSES

- UL recognized assemblies (File SA9737)
- The nylon permeation barrier meets SAE requirements J2196 for CFC, HCFC, HFC refrigerants
- Barrier provides improved resistance to moisture migration which contaminates expensive refrigerant
- 1/4" RYB PLUS II™ hoses are rated for 4000 psi (276 bar) minimum burst and 800 psi (55 bar) maximum working pressure and an operating temperature of -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA



THE ANATOMY OF A HOSE



PLUS II™ Hoses with UL assemblies available in the following configurations:

- 1/4" with 1/4" flare fittings
- 1/4" with compact ball valve end
- 1/4" with SealRight™ low loss anti-blow back fitting
- 1/4" for 5/16" flare (1/2 20 thread) service ports for R-410A
- 1/4" with FlexFlow[™] valve

A2L HOSES FOR LEFT-HANDED REFRIGERANT TANKS R-32/454B



- Conversion adapters from 1/4" Female SAE flare LEFT-HANDED (LH) x 1/4" Female SAE flare right-handed for A2L refrigerants
- Easily identified by double ring on tightening knurl for LH connection
- The moisture barrier provides improved resistance to moisture migration which contaminates expensive refrigerants



- 1/4" PLUS II™ hoses are rated for 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure and an operating temperature of -20° to 180°F (-28.8° to 82.2°C)
- UL recognized hose assemblies (File SA9737)
- Nylon permeation barrier meets SAE requirements J2196 for CFC, HCFC and HFC refrigerants
- Minimum bend radius: 6" (152 mm)
- Made in the USA



UPC #	Description
30260	Yellow PLUS II™ Hose, 60" ¼" LH to ¼" RH, 45°
30460	Yellow PLUS II™ Hose, 60" 1⁄4" LH to 1⁄4" RH, 45° w/Ball Valve
30660	Yellow PLUS II™ Hose, 60" 1/4" LH to 1/4" RH, 90°

See A2L Adapters in Section 6

Length	Yellow	Blue	Red	3 pak*
12"	21012	21212	21612	-
24"	21024	21224	21624	-
36"	21036	21236	21636	21983
48'	21048	21248	21648	21984
60"	21060	21260	21660	21985
72"	21072	21272	21672	21986
96"	21096	21296	21696	21988
10'	21110	21310	21710	-
12'	21112	21312	21712	-
25'	21125	21325	21725	-
50'	21150	21350	21750	-
75'	21175	21375	21775	-
100'	21200	21399	21799	-
Multi-length				21982 two 36", one 60 21981 two 36", one 72

^{* 3} pak includes a red, yellow and blue hose.

Replacement parts	
UPC#	Description
19020	Replacement gasket (10 pak)
19302	Adjust-a-Valve™ opener (10 pak)

PLUS II™ 1/4" HOSE With compact ball valve end



Designed for R-410A

- Metal handle at end of hose fits tight areas and traps all the gas
- Full flow valve
- Uses standard gasket and valve opener
- Made in the USA



UL recognized assemblies (File SA9737)

Compact ball valve end					
Length	Yellow	Blue	Red	3 pak	Black
36"	29036	29236	29636	29983	-
48"	29048	29248	29648	29984	-
60"	29060	29260	29660	29985	29595
72"	29072	29272	29672	29986	-
96"	29096	29296	29696	29988	_
10'	29110	29310	29710	-	-
12'	29112	29312	29712	-	_
25'	29125	29325	29725	-	-
50'	29150	29350	29750	_	_
75'	29175	29375	29775	-	-
100'	29199	29399	29799	-	-

Replacement parts		
UPC#	Description	
19020	Replacement gasket (10 pak)	
19302	Adjust-a-Valve™ opener (10 pak)	

PLUS II™ 1/4" HOSE With FlexFlow[™] valve



Designed for R-410A

- Valve handle position shows when valve is opened or closed
- Metal handle and smaller ergonomic valve with zero restriction for maximum flow
- Flexible length of hose between valve and fitting makes access to tight areas easier
- Made in the USA



UL recognized assemblies (File SA9737)

FlexFlow™ valve 8" from angle end				
Length	Yellow	Blue	Red	3 pak
36"	25036	25236	25636	25983
48"	25048	25248	25648	25984
60"	25060	25260	25660	25985
72"	25072	25272	25672	25986
96"	25096	25296	25696	25988
10'	25110	25310	25710	-
12'	25112	25312	25712	-
25'	25125	25325	25725	-
50'	25150	25350	25750	-
75'	25175	25375	25775	-
100'	25199	25399	25799	-

Replacement parts		
UPC#	Description	
19020	Replacement gasket (10 pak)	
19302	Adjust-a-Valve™ opener (10 pak)	

PLUS II™ 1/4" HOSE With SealRight™ low loss anti-blow back fitting



UL recognized assemblies (File SA9737)

Designed for R-410A

- Low loss anti-blow back SealRight[™] fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns
- 45° end for easy installation in tight areas
- Gaskets resist deterioration from existing CFC, HCFC and HFC refrigerants and oils
- Available with SealRight[™] fittings on both ends
- Made in the USA

45° SealRight fitting at one end				
Length	Yellow	Blue	Red	3 pak
12"	22012	22212	22612	-
24"	22024	22224	22624	-
36"	22036	22236	22636	22983
48"	22048	22248	22648	22984
60"	22060	22260	22660	22985
72"	22072	22272	22672	22986
96"	22096	22296	22696	22988
10'	22110	22310	22710	-
12'	22112	22312	22712	-
25'	22125	22325	22725	-
50'	22150	22350	22750	-
75'	22175	22375	22775	-
100'	22200	22399	22799	-

UPC#	Multi-length 3 pak
22981	Two 36" RB, one 72" Y
22982	Two 36" RB, one 60" Y

Replacement parts		
UPC#	Description	
19020	1/4" and 5/16" Replacement gasket (10 pak)	
19037	SealRight™ O-ring (10 pak)	
19038	Plug and gasket	
19039	Nut and clip	
19040	SealRight repair kit with valve, gasket, plug, spring and two O-rings	
19041	Complete kit includes 19038, 19039 and 19040	

PLUS II™ 1/4" HOSE For 5/16" flare (1/2 - 20 thread) service ports for R-410A



UL recognized assemblies (File SA9737)

- · Available with standard fittings or compact ball valve
- · Compatible with both POE and PVE oils
- Made in the USA

PLUS II[™] hose with 1/4" (7/16 – 20) Female flare on manifold connection and 5/16" (1/2 – 20) Female flare angled on service end

nda		

Length	Yellow	Blue	Red
36"	21403	21423	21463
60"	21405	21425	21465
72"	21406	21426	21466

For use with R-410A tanks with 1/4" fittings *Yellow PLUS I/" hose with standard 1/4" (7/16 – 20) flare fittings

Length	3 pak
36"	21483 (21036*, 21423, 21463)
60"	21485 (21060*, 21425, 21465)
72"	21486 (21072*, 21426, 21466)

PLUS II^{$^{\text{II}}$} hose with 5/16" (1/2 – 20) Female flare on manifold connection and 5/16" (1/2 – 20) Female flare angled on service end

Standard fitting

Length	Yellow	Blue	Red	3 pak
36"	21503	21523	21563	21583
60"	21505	21525	21565	21585
72"	21506	21526	21566	21586

PLUS II™ hose with compact ball valve (1/4" x 5/16")

Length	Yellow	Blue	Red	
36"	29403	29423	29463	
60"	29405	29425	29465	
72"	29406	29426	29466	

For use with R-410A tanks with 1/4" fittings

Length	3 pak	
36"	29483 (29036*, 29423, 2946	i3)
60"	29485 (29060* 29425 2946	55)

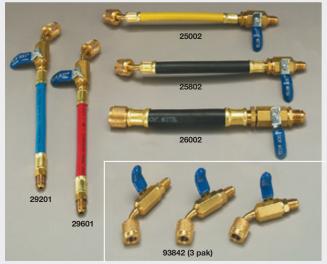
29486 (29072*, 29426, 29466) Compact ball valve (RYB 5/16" x 5/16")

Length	Yellow	Blue	Red	3 pak
36"	29003	29203	29603	29993
60"	29005	29205	29605	29995
72"	29006	29206	29606	29996

Replacement parts

UPC#	Description
19020	1/4" and 5/16" Replacement gasket (10 pak)
19302	Adjust-a-Valve™ opener (10 pak)

9" FlexFlow™ AND LOW LOSS **ADAPTER HOSES**



UL recognized assemblies (File SA9737) (Valves SA10088) (except 25802 and 26002)

Designed for R-410A

- Easy retrofit of existing PLUS II[™] hoses with ball valve capabilities
- Flexible hose between valve and fitting for handling in tight areas
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)*/**
- 800 psi working pressure***
- Minimum bend radius: 8" (203 mm)
- Made in the USA

Compact ball valve assemblies						
UPC# Description						
29001	1/4" Yellow ball valve adapter					
29201	1/4" Blue ball valve adapter					
29601	1/4" Red ball valve adapter					
29980	29001, 29201, 29601 (3 pak)					
93843	1/4" Compact ball valve – 45°					
93842	1/4" Compact ball valve – 45° (3 pak)					

FlexFlo	FlexFlow [™] assemblies					
UPC#	Description					
29011	1/4" to 5/16" Yellow FlexFlow™ adapter NEW!					
29211	1/4" to 5/16" Blue FlexFlow™ adapter NEW!					
29611	1/4" to 5/16" Red FlexFlow™ adapter NEW!					
25002	1/4" Yellow FlexFlow™ adapter					
25202	1/4" Blue FlexFlow™ adapter					
25602	1/4" Red FlexFlow™ adapter					
25980	25002, 25202, 25602 (3 pak)					
25802	1/4" Heavy duty FlexFlow™ adapter*					
26002	3/8" Heavy duty FlexFlow™ adapter*/***					
26202	Yellow standard "B" FlexFlow™ adapter**/***					
27002	Acme 1/2" Yellow FlexFlow™ adapter					
19095	Set of 2 handles and screws					

*25802 and 26002: Operating temperature -22° to 176°F (-30° to 80°C)

**26202: Operating temperature -20° to 200°F (-28.8° to 93.3°C)

***26002 and 26202: 3000 psi (207 bar) burst and 600 psi (41 bar) working pressures

Replace	Replacement parts					
UPC# Description						
19011	3/8" Replacement gasket (10 pak)					
19020	1/4" Replacement gasket (10 pak)					
19302	Adjust-a-Valve [™] opener (10 pak)					



Underwriters Laboratories Inc. Registered Component Mark – applies to all standard 1/4" *PLUS If*[™] and 1/4" RYB FlexFlow[™] hoses



PLUS II™ 3/8" "B" CHARGING HOSE

Designed for R-410A

PLUS II[™] features in a larger volume hose for fast, high vacuum or charging.

- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Large selection of fittings available
- Made in the USA

Replace	ment parts
UPC#	Description
19011	3/8" Replacement gasket (10 pak)

		Common s	elections		Other selections					
	3/8" Str. fl. x 3/8" Str. fl.			3/8" fl. x	3/8" Str. fl. x 3/8" 45°			3/8" Str. fl.	1/4" Str. fl.	
Length	Yell	ow	Blue	Red	FlexFlow	Yellow	Blue	Red	x 3/8" 90°	x 1/4" 45°
36"	14536	B36	27836	28036	26236	18136	28236	28436	20036	20436
48"	14548	B48	27848	28048	26248	18148	28248	28448	20048	20448
60"	14560	B60	27860	28060	26260	18160	28260	28460	20060	20460
72"	14572	B72	27872	28072	26272	18172	28272	28472	20072	20472
96"	14596	B96	27896	28096	26296	18196	28296	28496	20096	20496
10'	14610	B120	27910	28110	26310	18210	28310	28510	20110	20510
12'	14612	B144	27912	28112	26312	18212	28312	28512	20112	20512
25'	14625	B300	27925	28125	26325	18225	28325	28525	20125	20525
50'	14650	B600	27950	28150	26350	18250	28350	28550	20150	20550
75'	14675	B900	27975	28175	26375	18275	28375	28575	20175	20575
100'	14699	B1200	27999	28199	26399	18299	28399	28599	20199	20599



PLUS II™ 1/4" HEAVY DUTY CHARGING HOSE

Heavy duty construction for substantially increased service life.

Designed for R-410A

- Flexibility for all-weather easy handling
- Pulls 75 micron vacuum or better on 36" hose
- 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure
- Operating temperature -22° to 176°F (- 30° to 80°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA

Replacement parts							
UPC# Description							
19020 Replacement gasket (10 pak)							
19302	Adjust-a-Valve™ opener (10 pak)						

		Con	Other selections					
Length	Length HCA hose Str. x angle		HCA hose Str. x angle Hose with FlexFlow [™] Hose with ball val		HCL hos	e Str. x 90°	HCS hose Str. x Str.	
12"	15012	HCA-12"	-	-	15212	HCL-12"	15412	HCS-12"
24"	15024	HCA-24"	-	-	15224	HCL-24"	15424	HCS-24"
36"	15036	HCA-36"	25836	29836	15236	HCL-36"	15436	HCS-36"
48"	15048	HCA-48"	25848	29848	15248	HCL-48"	15448	HCS-48"
60"	15060	HCA-60"	25860	29860	15260	HCL-60"	15460	HCS-60"
72"	15072	HCA-72"	25872	29872	15272	HCL-72"	15472	HCS-72"
96"	15096	HCA-96"	25896	29896	15296	HCL-96"	15496	HCS-96"
10'	15110	HCA-120"	25910	29910				
12'	15112	HCA-144"	25912	29912				
25'	15125	HCA-300"	25925	29925	Blac	k only. Longer	r lengths ava	ailable.
50' 15150 HCA-600"		25950	29950	Please specify.				
75'	15175	75 HCA-900" 25975 29975						
100'	15199	HCA-1200"	25999	29999				

PLUS II™ 3/8" HEAVY DUTY COMBINATION CHARGING/VACUUM HOSE

Pulls a vacuum much faster than the 1/4" hose.

- Operating temperature -22° to 176°F (- 30° to 80°C)
- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Minimum bend radius: 8" (203 mm)
- Vacuum rated to 20 microns
- Made in the USA

Replacement parts						
UPC# Description						
19020	1/4" Replacement gasket (10 pak)					
19011	3/8" Replacement gasket (10 pak)					
19302	Adjust-a-Valve [™] opener (10 pak)					



Common selections				Other selections						
Length	3/8" Str. fl. x 3/8" Str. fl.				3/8" Str. fl. x FlexFlow™	3/8" fl. x 3/8" 45°	3/8" fl. x 3/8" 90°	3/8" fl. :	x 1/4" 45°	1/4" fl. x 1/4" 45°
36"	15636	BC-36"	26036	19636	19836	16236	BCA-36"	20236		
48"	15648	BC-48"	26048	19648	19848	16248	BCA-48"	20248		
60"	15660	BC-60"	26060	19660	19860	16260	BCA-60"	20260		
72"	15672	BC-72"	26072	19672	19872	16272	BCA-72"	20272		
96"	15696	BC-96"	26096	19696	19896	16296	BCA-96"	20296		
10'	15710	BC-120"	26110	19710	19910			20310		
12'	15712	BC-144"	26112	19712	19912		lengths	20312		
25'	15725	BC-300"	26125	19725	19925		e. Please	20325		
50'	15750	BC-600"	26150	19750	19950	specify. Longer than 8' not recommended		20350		
75'	15775	BC-900"	26175	19775	19975	for evacuation.	20375			
100'	15799	BC-1200"	26199	19799	19999	ioi evacuation.		20399		

PLUS II™ 1/2" AND 5/8" HEAVY DUTY COMBINATION CHARGING/VACUUM HOSE

Heavy duty construction with PLUS II™ barrier technology reduces permeation and vacuum loss. Large I.D. reduces vacuum time substantially over 1/4" or 3/8" hose.

- Pull a more complete vacuum
- Faster refrigerant transfer
- Faster charging on large systems
- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -22° to 176°F (-30° to 80°C)
- Other fittings available on request
- Minimum bend radius: 10" (254 mm)
- Vacuum rated to 20 microns
- Made in the USA



Replace	Replacement parts				
UPC#	Description				
19015	1/2" and 5/8" Replacement gaskets				
19020	1/4" Replacement gasket (10 pak)				
19011	3/8" Replacement gasket (10 pak)				
19302	Adjust-a-Valve™ opener (10 pak)				

	Common selections				Other selections					
Length	"C" 1/2" fl. "D" 5/8" fl. x 1/2" fl. x 5/8" fl.		"CA" 1/4" "DA" 1/4" angle end x 1/2" fl. angle end x 5/8" fl.		1/2" fl. x 3/8" fl.	3/8" fl. x 3/8" fl.				
36"	15836	C-36"	16036	D-36"	16436	CA-36	16636	DA-36	19236	20636
48"	15848	C-48"	16048	D-48"	16448	CA-48	16648	DA-48	19248	20648
60"	15860	C-60"	16060	D-60"	16460	CA-60	16660	DA-60	19260	20660
72"	15872	C-72"	16072	D-72"	16472	CA-72	16672	DA-72	19272	20672
96"	15896	C-96"	16096	D-96"	16496	CA-96	16696	DA-96	19296	20696
10'	15910	C-120"	16110	D-120"	26" h	بع النب ممم	.II to 00 mi	24000	19310	20710
12'	15912	C-144"	16112	D-144"		36" hose will pull to 20 microns and lower. Hoses longer than 8' not recommended for evacuation.			19312	20712
25'	15925	C-300"	16125	D-300"					19325	20725
50'	15950	C-600"	16150	D-600"	reco	mmenaea	ior evacua	tion.	19350	20750

Black only. Longer lengths available. Specify type, length and fitting combination.

PLUS II™3/4" HEAVY DUTY CHARGING HOSE



Large 3/4" I.D. designed to save time in charging or evacuation of centrifugals and other large systems.

- Constructed for heavy duty use with most refrigerants
- 3000 psi (206 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Available with steel 3/4" Female, 3/4"
 Male flares, 3/4" Male pipe or hex fittings
- Operating temperature -20° to 200°F (-28.8° to 93.3°C)
- Minimum bend radius: 12" (305 mm)
- Not for use with NH3



Length	3/4" 3/4" "O" rin	fl. –	3/4" hex x 3/4" hex copper gasket seal
12"	18412	E-12"	20812
24"	18424	E-24"	20824
36"	18436	E-36"	20836
48"	18448	E-48"	20848
60"	18460	E-60"	20860
72"	18472	E-72"	20872
96"	18496	E-96"	20896
10'	18510	E-120"	20910
12'	18512	E-144"	20912
25'	18525	E-300"	20925
50'	18550	E-600"	20950
Replace	ement pa	arts	

Replace	Replacement parts				
UPC#	Description				
19012	3/4" "O" ring				
59655	3/4" Copper gasket				

AUTOMOTIVE MANIFOLD HOSES FOR R-134A SYSTEMS



These 1/4" hoses combine PLUS IITM hose with 1/2" Acme fittings to meet SAE requirements. You get PLUS IITM double barrier protection in a hose manufactured specifically for automotive applications. Fitting threads are 1/2" Acme Female and 14 mm Male fittings.

MADE IN THE USA

Color	Yellow	Blue	Red	3 pak
Length	Straight Acme QC x 45° Acme SealRight™	1/2" fe. Acme x 14 mm	1/2" fe. Acme x 14 mm	
60"	27460	27260	27660	27102
72"	27472	27272	27672	27101
96"	27496	27296	27696	27104
10'	27510	27310	27710	27103



AUTOMOTIVE CHARGING MANIFOLD AND HOSES FOR 1234YF SYSTEMS

Charging manifold and hoses designed specifically for 1234yf. Manifold body made of lightweight forged aluminum alloy for handling ease and the durability and reliability required for repeated use.

MADE IN THE USA

Color	Yellow	Blue	Red				
Length	3/16" hose (12 mm barb x 45° QC)	3/16" hose (12 mm x 12 mm barb)					
36"	17803	17823	17863				
48"	17804	17824	17864				
60"	17805	17825	17865				
72"	17806	17826	17866				
96"	17808	17828	17868				
120"	17810	17830	17870				
144"	17812	17832	17872				
180"	17815	17835	17875				
4004 CT	4004 (Table Observed Markett						

1234yf Test & Charging Manifold

9849 TITAN® 2-Valve Manifold with 72" PLUS II™ SAE RYB hoses with couplers, R/B gauges, bar/psi/kPa, R1234yf, °F

MADE IN

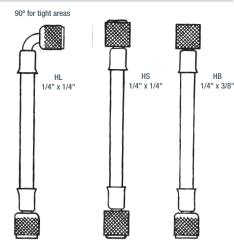
SPECIAL 1/4" PLUS II™ CHARGING HOSES

YELLOW JACKET® 1/4" yellow charging hoses with special fittings include straight, 3/8" and 90° fittings. Red and blue hoses also available.

Length	1/4" fl. x 1/4" 90° fl.		1/4" fl. x 1/4" 90° fl. 1/4" fl. x 1/4" fl.		1/4" fl. x 3/8" fl.	
36"	12036	HL36	13036	HS36	14036	HB36
48"	12048	HL48	13048	HS48	14048	HB48
60"	12060	HL60	13060	HS60	14060	HB60
72"	12072	HL72	13072	HS72	14072	HB72

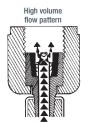
Longer lengths available. Please specify.

Replacement parts				
UPC#	Description/Quantity			
19010	1/4" Gasket (6 pak) and valve depressor (3 pak)			
19020	Replacement gasket (10 pak)			
19302	Adjust-a-Valve™ opener (10 pak)			



HOSE COMPARISON CHART

1/4" Flexible hoses	3/8" Flexible hoses	1/2" and 5/8" Flexible hoses
Easily connects to 1/4" Male flare access fitting on system	Evacuates and charges faster than 1/4" hose	Evacuates and charges faster than 1/4" hose
		Allows you to pull a deeper vacuum
		More efficient job of removing moisture and contaminants from the system
PLUS II [™] 1/4" Charging hose (SealRight, [™] FlexFlow and ball valve ends)	PLUS II™ 3/8" Charging hose	PLUS II™ 1/2" and 5/8" Charging hose
Adjust-a-Valve™ valve core depressor easily opens all out-of-tolerance Schrader valves (SealRight hoses offer different technology)	PLUS II™ hoses with double barrier protection	PLUS II™ hoses with double barrier protection
PLUS II [™] hoses offer double barrier protection		Large I.D. reduces vacuum time
Nylon layer for permeation, braid for strength, and outer cover for protection		substantially over 1/4" or 3/8" hose Faster refrigerant transfer and faster
Fully UL recognized assemblies		charging on large systems
(File SA9737)		Wide selection of fittings are available
Temp: -20° to 180°F (-28.8° to 82.2°C)	Temp: -20° to 180°F (-28.8° to 82.2°C)	Temp: -22° to 176°F (-30° to 80°C)
Burst: 4000 psi (276 bar) minimum	Burst: 3000 psi (207 bar) minimum	Burst: 3000 psi (207 bar) minimum
Working: 800 psi (55 bar) maximum	Working: 600 psi (41 bar) maximum	Working: 600 psi (41 bar) maximum
Safety factor: 5 to 1	Safety factor: 5 to 1	Safety factor: 5 to 1
Available lengths: 12 inches to 100 feet	Available lengths: 12 inches to 100 feet	Available lengths: 12 inches to 100 feet



The Adjust-a-Valve™ valve core depressor easily opens out-of-tolerance Schrader valves. Simply adjust height with needle nose pliers. Designed for repeat usage; replacement is convenient.

Fittings available <i>PLUS II</i> [™] hoses			
Туре	Str.	45°	90°
1/8" Female flare			
3/16" Female flare			
1/4" Female flare			
1/4" Female SealRight™			
3/8" Female flare			
5/16" Female flare			
1/4" Male flare			
1/8" NPT Male			
1/4" NPT Male			
1/2" Female Acme			
14 mm Male			
Not all hose and fitting combinations are listed in this catalog. As	k for specifics		

Inspect your hoses on a regular basis.

Since 1964, YELLOW JACKET® 1/4" charging hoses have "year of manufacture" coded or listed on the rim of the nut. Prior to 2006, a series of I's, X's, O's, A's, B's or C's indicated the year. Since mid-2006, the actual year of manufacture has been used. *If your hoses are more than five years old, we recommend that you replace them.*

6	1964	4 BBBB	1997
1	1970	3 BBB	1998
6 IIIIII	1971	2 BB	1999
11	1976	1 B	2000
6 XXXXXX	1977	6 CCCCCC	2001
1 X	1982	5 CCCCC	2002
6 000000	1983	4 CCCC	2003
10	1988	3 CCC	2004
6 AAAAAA	1989	2 CC	2005
1 A	1994	1 C or 2006	2006
6 BBBBBB	1995	2007	2007
5 BBBBB	1996	All after 2007 are stamped v	vith year of mfg.

Ounces of liquid held per foot of hose at 80° F									
Hose type R-22 R-134a R-404A R-407C R-410A									
1/4" <i>PLUS II</i> ™	0.33	0.33	0.29	0.31	0.29				
1/4" Heavy duty	0.31	0.32	0.27	0.30	0.28				
3/8" <i>PLUS II</i> ™	0.77	0.78	0.67	0.73	0.68				
3/8" Heavy duty	0.77	0.78	0.67	0.73	0.68				
1/2" Heavy duty	1.68	1.70	1.47	1.60	1.49				
3/4" Heavy duty	3.53	3.58	3.09	3.37	3.13				

AMMONIA CHARGING HOSE



Designed with steel quick couplers at both ends. Features include:

- Regular CH20 gaskets for 1/4" hoses (19010, 19020).
 CH11 gaskets for 3/8" hoses (19011)
- 1/4" and 3/8" 2500 psi (172 bar) minimum burst, 500 psi (34 bar) maximum working pressure
- 1/4" operating temperature -20° to 176°F (-28.8° to 80°C) and minimum bend radius: 6" (152 mm)
- 3/8" operating temperature -22° to 176°F (-30° to 80°C) and minimum bend radius: 8" (203 mm)
- Made in the USA

1/4"	Str. fl. x 1/4" 45°		3	3/8" Str. fl. bo	th ends	
UPC#	Part#	Ler	ngth	UPC#	Part#	
16848	NHA-48"	48	3"	19448	NBC-48"	
16872	NHA-72"	72	2"	19472	NBC-72"	
16896	NHA-96"	90	6"	19496	NBC-96"	
16910	NHA-120"	1	0'	19510	NBC-120"	
16912	NHA-144"	1:	2'	19512	NBC-144"	
Steel ha	Steel half union ammonia fittings					
UPC#	Description					
16801	1/4" Male fl. x 1/4'	' NPT M	ale Str.			
16802	1/4" Male fl. x 1/4'	NPT M	ale 90°			
16803	3/8" Male fl. x 1/4"	' NPT M	ale			

 $\ensuremath{\text{NH}}_3$ manifold on page 23.

FUEL OIL ASSEMBLY HOSES

Reinforced hose designed for quick pump to nozzle connection and oil burner connections.

- Flexible to absorb vibration and swelling while providing positive cut-off
- 4000 psi (276 bar) minimum burst and
 800 psi (55 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA

UPC#	Length	Description
78041	12"	3/16" Female flare x 3/16" Female flare Pump to nozzle connector
78042	12"	1/4" Female flare x 1/4" Female flare Pump to nozzle connector
78112	12"	1/8" NPT Female swivel x 1/8" NPT Male Pump to nozzle connector or gauge to pump
78043	18"	3/16" Female flare x 3/16" Female flare Pump to nozzle connector
78044	18"	1/4" Female flare x 1/4" Female flare Pump to nozzle connector

Longer lengths available.

OIL PUMP VIBRATION ELIMINATOR

Reinforced rubber hose helps eliminate noise and vibration when installed in a heating system.

- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA



	UPC#	Length	Description
ı	78012	12"	3/8" Male flare x 1/4" NPT Male oil burner connector

CYLINDER VALVE HOSESWith finger tight drum fitting

Designed for finger tight operation on 125 lb. and 145 lb. refrigerant cylinders. Gaskets seal without wrenches.



UPC#	Description
19020	Replacement gasket for 1/4" and 1/2" Acme hose (10 pak)
18001	Cylinder gasket (10 pak)

Use cylinder valve adapters only. See page 33.

UPC#	L.	Part#	Туре	Fittings	Burst pressure	Working pressure	Operating temp.	Min. bend radius
18612	12"	CVX-12	1/4" Heavy duty	1/4" Male flare x 3/4" NPS	4000 psi (276 bar)	800 psi (55 bar)	-22 to 176 (-30° to 80°C)	6" (152 mm)
18912	12"	CVY-12	3/8" Heavy duty	3/8" Male flare x 3/4" NPS	3000 psi (207 bar)	600 psi (41 bar)	-22 to 176 (-30° to 80°C)	8" (203 mm)
18072	72"	CVH-72	1/4" Original	1/4" Female flare x 3/4" NPS	2500 psi (172 bar)	500 psi (34 bar)	-20 to 180 (-28.8° to 82.2°C)	6" (152 mm)
18372	72"	CVB-72	3/8" Standard	3/8" Female flare x 3/4" NPS	3000 psi (207 bar)	600 psi (41 bar)	-20 to 200 (-28.8° to 93.3°C)	6" (152 mm)

HIGH PRESSURE CONTROL HOSE

For HFC, HCFC and CFC refrigerants and hydrocarbons



The YELLOW JACKET® pressure control hose is constructed of a thermoplastic polymer inner tube and cover. This new material eliminates the vibration problems that are present in copper capillary tube installations.

The higher temperature ratings of this thermoplastic to 266° F eliminate the failures caused by maximum load conditions on rubber type pressure control hoses.

Between the inner tube and the cover, the hose is reinforced with a polyester braid of high tensile strength with high modulus, giving it the ability to withstand higher pressures.

Available in any combination of 1/4" or 3/8" brass SAE flare straight or 90° angle fittings. Hex nuts are brass. Copper gaskets provide the best possible seal.

- Improved permeation characteristics. R-134a permeation tested at: 0.188 oz./ft./yr. 0.0118 lb./ft./yr 17.6 gr./m./yr.
- Results with other refrigerants will also show superior performance characteristics
- For use with most HFCs such as R-134a, R-404A, R-407A, R-407B, R-407C, R-410A and R-507, HCFC such as R-22, HC's, R290 and
- Usable oil types include polyol ester, alkylbenzene and mineral oils.

Specifications

I.D.: .156" (4.0 mm) O.D.: .325" (8.2 mm)

Working pressure: 800 psi, 55 bar, 5.5 MPa Burst pressure: 4000 psi, 276 bar, 27.6 MPa Minimum temperature: -49° F (-44° C) Maximum temperature: 266° F (130° C) Minimum bend radius: 4" (102 mm)

Length*	UPC#					
(assembly)	1/4" Str. x Str.	1/4" Str. x 90°	1/4" 90° x 90°	3/8" Str. x Str.	3/8" Str. x 90°	
12"	78612	78712	78812	78912	79112	
18"	78618	78718	78818	78918	79118	
24"	78624	78724	78824	78924	79124	
30"	78630	78730	78830	78930	79130	
36"	78636	78736	78836	78936	79136	
48"	78648	78748	78848	78948	79148	
60"	78660	78760	78860	78960	79160	
72"	78672	78772	78872	78972	79172	
96"	78696	78796				

^{*} Special lengths are readily available.



STAINLESS STEEL HOSE SPECIFICATIONS

YELLOW JACKET stainless steel assemblies are 300 series corrugated hose and braid for applications where temperature and pressure could be a problem.

With stainless steel braid wrapping a stainless steel core, all hoses on this page prevent permeation and moisture infusion. Use with all standard refrigeration oils and refrigerants, as well as the new alternative oils and refrigerants including R-123.

Applications: vacuum and charging, vibration isolation, movable components and permanent application. **Not for use with NH**₃.

		St	ainless steel ho	se specifications	;
	Size	Max psi working*	Flexing bend radius	Permanent bend radius	Temperature/pressure correction
Ī	1/4"	1275 (88 bar)	5.5"	1"	68°F – 1.00
ĺ	3/8"	1000 (69 bar)	6.5"	1-1/4"	200°F86 300°F80
	1/2," 5/8"	1000 (69 bar)	8.5"	1-1/2"	400°F – .78
ĺ	3/4"	725 (50 bar)	10"	2"	500°F77 800°F76
	1"	700 (48 bar)	11.5"	2-3/4"	900°F74
ĺ	1-1/4"	550 (38 bar)	13"	3-1/4"	1000°F – .70

 $^{^{\}star}$ PSI at 68°F with a 4-to-1 safety factor. Core is T-321 SS with 300 Series SS braid.

Standard and custom length assemblies are made to order. Minimum length 12."

QUICK COUPLER ASSEMBLY

For vacuum and charging

Oversized to increase flow and speed evacuation. Pull 25 microns and better on 36" length.

- · Brass quick coupler
- Standard 45° angle at one end on 1/4" and 3/8" (90° available)
- Straight fittings only on 1/2", 5/8" and 3/4"
- Made in the USA



Length	Str. x 45° 1/4" I.D.	Str. x 45° 3/8" I.D.	Str. x Str. 1/2" I.D.	Str. x Str. 5/8" I.D.	Str. x Str. 3/4" I.D.
36"	81636	81736	81836	81936	82036
48"	81648	81748	81848	81948	82048
60"	81660	81760	81860	81960	

SWEAT FITTING ASSEMBLY



	male t fitting		ale t fitting
86136	1/4" x 36"	85136	1/4" x 36"
86236	3/8" x 36"	85236	3/8" x 36"
86336	1/2" x 36"	85336	1/2" x 36"
86436	5/8" x 36"	85436	5/8" x 36"
86536	3/4" x 36"	85536	3/4" x 36"
86636	7/8" x 36"	85636	7/8" x 36"
86736	1-1/8" x 36"	85736	1-1/8" x 36"
86836	1-3/8" x 36"	85836	1-3/8" x 36"

Manufactured with straight, copper sweat ends.

- · Male sweat to fit inside mating tube
- Female sweat to fit outside mating tube
- · Made in the USA



GET MAXIMUM BENEFIT FROM YOUR YELLOW JACKET METAL HOSES

Keep your hoses on the job longer and the YELLOW JACKET warranty in effect by avoiding sharp bending and twisting that causes early failure. The warranty does not cover fatigue failure. Replace gaskets in quick couplers as needed to ensure a proper sealing.

FLARE ASSEMBLY For display cases, etc.



Stainless steel assemblies are made with a combination of Male and Female flares. Custom assemblies can be made.



Fl. size	Male fl.	Male fl.	Fe. fl.
x length	x Male fl.	x Fe. fl.	x Fe. fl.
1/4" x 36"	82136	83136	84136
1/4" x 48"	82148	83148	84148
3/8" x 36"	82236	83236	84236
3/8" x 48"	82248	83248	84248
1/2" x 36"	82336	83336	84336
1/2" x 48"	82348	83348	84348
5/8" x 36"	82436	83436	84436
5/8" x 48"	82448	83448	84448
3/4" x 36"	82536	83536	84536
3/4" x 48"	82548	83548	84548

NOTE: Stainless steel hoses are made-to-order and cannot be returned.

NOTE: Custom lengths are available for all stainless steel hose assemblies on this page.

CO₂ TEST AND CHARGING MANIFOLDS

Manifold and hoses designed specifically for transcritical CO₂ (R-744) applications.



The YELLOW JACKET® TITAN® Test and Charging Manifold for transcritical CO₂ systems is constructed with a forged aluminum alloy body making it lightweight for handling ease and durability. No sightglass means added safety. It features true 45° SAE flare hoses 78" in length.

- Large, easy-to-read 3-1/8" (80 mm) liquid-filled red and blue, 1% accuracy (Class 1) gauges; psi/bar
- Proven, double "O"-ring piston for reliability and long service life.
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- · Fourth hose to enable connection to hi/lo sides, refrigerant tank, and vacuum pump for diagnostics, evacuation and charging without switching hoses.
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4").
- Dedicated transcritical CO₂ hose 78" (200 cm) in length
- Designed and assembled in the USA





Specifications

Scales:

LP 30 in. Hg/1500 psi (-1/+105 bar)

-60° to 85°F (-52° to 30°C) HP 0/3000 psi (0/210 bar)

4-valve forged aluminum body

Precision stainless steel valve feed screws

No sight glass for added safety

Class 1, 3-1/8" (80 mm), oil-filled, pulse-free

Fittings: (3) 1/4"; (1) 3/8" (vacuum application only)

Hoses: Three (3) black, 78" (200 cm), 1/4" SAE fittings (45°)

- · Operating pressure 1740 psi (120 bar)
- · High pressure copper gaskets

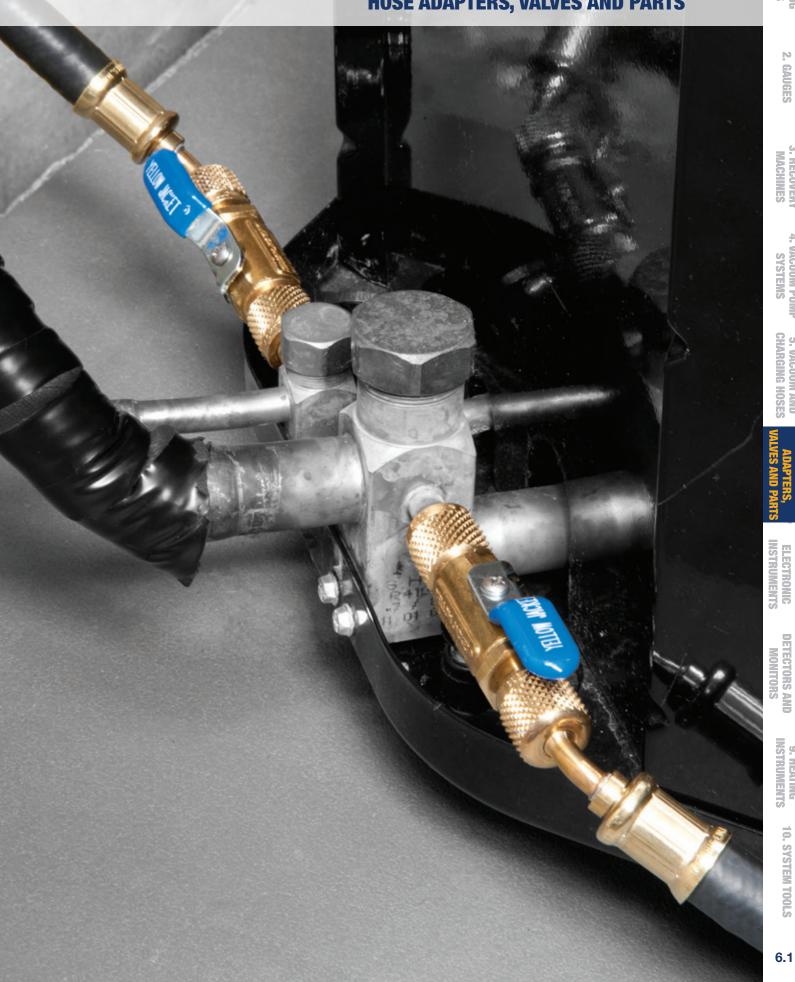
One (1) yellow, 78" (200 cm), 3/8" SAE fittings

- · Operating pressure 594 psi (41 bar)
- · Neoporene built-in gaskets

LIDO#	Baraninian .
UPC#	Description
45925	TITAN® CO2 Manifold with hoses (3) black and (1) yellow
45930	CO2 Tanscritical Test and Charging Manifold with Quick Couplers
UPC#	Replacement Parts
45922	CO2 78" (200 cm) black replacement hose (single)
45923	Nylon CO2 Manifold bag with handle and straps (optional)
45924	CO2 Manifold Briefcase
14579	3/8" 78" (200 cm) yellow replacement hose (single)
49193	High pressure replacement gauge
49194	Low pressure replacement gauge
79472	1/4" STR X 45° CO2 Hose 72"
79510	1/4" STR X 45° CO2 Hose 120"

For replacement parts, refer to the manual (also available at yellowjacket.com)

HOSE ADAPTERS, VALVES AND PARTS



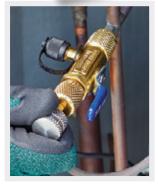
RealTorque® CORE REMOVAL TOOLS AND SUPERHEAT KITS





Torque Mechanism Clicks when Schrader Core has been Properly Tightened to 3-5 in-lb.

The RealTorque® Vacuum/Charge Valve with Side Port removal of system Schrader cores can greatly increase the speed of recovery and evacuation. Once charging is complete, it is important that the system Schrader cores be properly



tightened to prevent leaks. The RealTorque™ Core Removal Tool has an integrated torque mechanism that clicks as soon as the Schrader core has been tightened to the manufacturer recommended torque value of 3-5 in-lb. This provides assurance that the Schrader core is properly tightened on every job and minimizes the chances of leaks from this area of the system.

FEATURES & BENEFITS

- Core removal improves the speed of recovery and evacuation
- Torque mechanism clicks when Schrader core has been properly tightened to 3-5 in-lb
- Side port provides attachment location for vacuum gauge
- Available in 1/4" and 5/16" sizes
- Complete valves and superheat kits supplied in hard cases for protection
- One-year warranty
- Made in USA



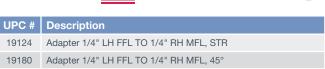


UPC #	Description
18991	RealTorque® 1/4" Vacuum/Charge Valve with Side Port
18992	RealTorque® 5/16" Vacuum/Charge Valve with Side Port
18994	RealTorque® 1/4" Male x 5/16" Female Vacuum/Charge Valve with 1/4" Side Port
18998	1/4" Torque CRT Assembly
18999	5/16" Torque CRT Assembly

A2L ADAPTERS FOR LEFT-HANDED REFRIGERANT TANKS R-32/454B



- Conversion adapters from ¼" Female SAE flare LEFT-HANDED
 (LH) x ¼" Male flare for A2L applications
- Easily identified by double ring on tightening knurl for LH connection
- Patented CH14 "adjust-a-valve" opener in all 1/4" female ends
- · Works with or without Schrader core
- · Available in straight, 45° and 90° configuration
- Made in the USA



See A2L Hoses in Section 5

19204

RealTorque® SUPER HEAT KITS

Adapter 1/4" LH FFL TO 1/4" RH MFL, 90°

The RealTorque® SuperHeat Kits include all the tools necessary for accurate system superheat calculations. The thermometer and core removal tool with side port allow for the pressure and temperature measurements to be taken at the same system location. Compare these measurements to the system refrigerant P/T chart to determine the system superheat.



Once charging is complete, use the RealTorque® Core Removal tool to properly tighten the system Schrader core to the manufacturer's recommended torque value of 3-5 in-lb with its integrated torque mechanism. The kits also include all the tools necessary to replace Schrader cores without losing system pressure even if the core or mating core threads are damaged. Kits are available for 1/4" (69111) and 5/16" (69112) systems.

UPC #	Description
69111	RealTorque® 1/4" SuperHeat Kit with Torque CRT
69112	RealTorque® 5/16" SuperHeat Kit with Torque CRT

See replacement parts on website.

1/4" 4-IN-1 BALL VALVE TOOL

For vacuum, charge, cores and recovery



Remove and replace Schrader cores without losing charge.

• Extra 1/4" side port on 18975 to attra

- Extra 1/4" side port on 18975 to attach electronic micron vacuum gauge right at system for greater accuracy or to add refrigerant
- Evacuate and charge through an unrestricted line for increased speed and higher vacuum
- Core removal allows recovery unit to work at maximum efficiency, speeding the recovery process

UPC#	Description
18975	Vacuum/charge valve with side port
18971	Vacuum/charge valve without side port
18980	Accessory set - 2 piece
18978	Schrader rethreading accessory
18979	Broken Schrader remover accessory
18983	Quad rings (10 pak)
18997	Grappler rod/nut assembly
18973	Gasket for 18975 (5 pak)

Seal kit includes core, cap, 4 "O" rings, gasket Schrader cores (10 pak)



5/16" 4-IN-1 BALL VALVE TOOL

For R-410A systems with 5/16" access ports



Similar to the 1/4" 4-in-1 core tool but with 5/16" flare fittings. For use with R-410A systems and mini splits with larger 5/16" service ports.

MADE IN THE USA

UPC#	Description
18985	5/16" Vacuum/charge valve with side port
18981	5/16" Vacuum/charge valve without side port
18987	5/16" Grappler rod/nut assembly
18988	5/16" Rethread accessory
18989	5/16" Schrader remover
18984	Seal kit includes core, cap, 4 "O" rings, gaskets
19173	5/16" Quick coupler x 1/4" MFL Schr
19305	Schrader cores (10 pak)
18986	1/4" Male x 5/16" female vacuum/ charge valve
18973	Gasket for 18975 (5 pak)

COMPACT BALL VALVES 1/4" and 5/16"

19305



Compact ball valves feature full flow for charging and recovery. Metal valve handle.

- 1/4" ball valves are UL recognized to 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure
- 5/16" for R-410A applications where 5/16" system ports are used
- 5/16" are UL recognized to 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure

UPC#	Description
93844	1/4" Compact ball valve – straight
93843	1/4" Compact ball valve – 45°
93842	1/4" Compact ball valves – 45° (3 pak)
93825	5/16" Compact ball valve for 5/16" Female flare x 1/4" Male flare-45°
93826	5/16" Compact ball valve for 1/4" Female flare x 5/16" Male flare
93827	5/16" Compact ball valve for 5/16" Female flare x 5/16" Male flare

FULL CONTROL BALL VALVES FOR VACUUM/CHARGING



When building your own charging/vacuum system, these straight flow-through valves connect hoses and provide full-flow capacity.

- No angles to cause restrictions and pressure drops
- Handle position shows when the valve is opened or securely closed

	MADE IN THE USA
--	--------------------

	M. fl. x M. fl.	M. fl. x 1/4" FPT	M. fl. x Fe. fl.	Gaskets
1/4" SAE*	93834	93833	93844	19020
5/16" SAE	-	-	93827	19020
3/8" SAE*	93836	93832	93846	19011
1/2" SAE	93838	-	93848	19015
1/2" Acme*	93830	93831	93840	19020
19095	Replacement handle/screw for all 1/4", 3/8" and Acme valves (2 pc. set)			
19096		ment hand e valves (2		or all

* UL Listed

GAS RETENTION VALVE



- Valve controls refrigerant flow from access fitting
- · Closes Schrader before disconnecting
- Back seat valve feature to retain gas in hose when disconnecting
- 1/4" Female flare x 1/4" Male flare
- 500 psi working pressure
- Made in the USA

UPC#	Description
18993	Core depressor valve
18995	"O" ring set

VACUUM/CHARGE VALVE



1/4" vacuum/charge valve with or without side port. For faster vacuum/charging or removing/replacing Schrader cores.

MADE IN THE USA

UPC#	Description	
18990	Vacuum/Charge valve with side port	
19000	Vacuum/Charge valve	
Replacement parts		
18995	"O" ring set	
18996	Shut-off stem	
18997	Grappler rod/nut assembly	

QUICK COUPLER-STYLE BRAZE-IN FITTINGS



Braze-in brass fitting with replaceable soft seat. Quick coupler-style fittings are the same as supplied on metal hose.

MADE IN THE USA

UPC#	Description
19082	1/4" Str. Female fl. with CH20 gasket
19083	1/4" 45° Female fl. with CH20 gasket
19084	1/4" 90° Female fl. with CH20 gasket
19085	3/8" Str. Female fl. with CH11 gasket
19086	3/8" 45° Female fl. with CH11 gasket
19087	3/8" 90° Female fl. with CH11 gasket
19088	1/2" Str. only Female with CH80 gasket

Use 19015 (CH80), 19020 (CH20) and 19026 (quad ring) seals.

VALVE CORE TOOL



Self contained tool for quickly removing and replacing cores. Handle contains six cores.

UPC#	Description
19306	Valve core tool
19305	Schrader valve (10 pk)

125 AND 145 LB. CYLINDER VALVE ADAPTER



Finger tight adapters fit 125 and 145 lb. cylinders. Seal remains seated.



UPC#	Description
19105	3/4" NPS cylinder adapter with 1/4" Male flare
19106	3/4" NPS cylinder adapter with 3/8" Male flare
18001	Replacement gasket (10 pak)

VACUUM PUMP INTAKE ADAPTER



Reducing adapter for pump intakes on $\mathsf{SuperEVAC}^\mathsf{TM}$ and other vacuum pumps.



MADE IN THE USA

UPC#	Description
19130	3/8" Fe. fl. x 1/4" M. fl. adapter
19131	1/2" Fe. fl. x 3/8" M. fl. adapter
19132	1/2" Fe. fl. x 1/4" M. fl. adapter
19160	1/2" Fe. fl. x 1/2" M. Acme adapter
19133	3/8" Fe. fl. x 1/2" M. fl. adapter

VACUUM PUMP ADAPTER



Convert a 3/8" or 1/2" vacuum pump intake into 1/4" and 1/2" Acme R-134a compatible fittings.

UPC#	Description
36018	1/2" Pump adapter with 1/4" flare and 1/2" Acme Male fittings
36019	3/8" Pump adapter with 1/4" flare and 1/2" Acme Male fittings

MODIFIED NEEDLE VALVE In-line control



MADE IN THE USA

UPC#	Description
69670	Needle type bleed valve 1/4" flare

MANIFOLD PARTICULATE FILTER



Manifold particulate filters trap particles before they damage valve seats or pass into recovery equipment. Screens are replaceable and cleanable.

UPC#	Description
41119	1/4" Manifold particulate filter
41120	3/8" Manifold particulate filter
41121	1/2" Manifold particulate filter
41122	Replacement filter screen (5 pak)

ADD-A-HOSE COUPLER



Add-a-hose couplers easily connect hoses to the length desired.

MADE IN THE USA

UPC#	Description	UPC#	Description
19143	3/16" Male flare	19150	5/8" Male flare
19144	1/4" Male flare	19152	3/4" Male flare
19146	3/8" Male flare	19142	1/2" Acme
19148	1/2" Male flare	-	-

QUICK COUPLERS Expanded line



UPC# Description

Gauge quick couplers with CH14 adjustable valve opener

5/16" Quick couplers with

CH14 adjustable valve opener

3/16" Female QC 90° x 1/4" Male flare

1/4" Female QC 90° x 1/4" Male flare

1/4" Female QC 90° x 3/8" Male flare

3/8" Female QC 90° x 3/8" Male flare

3/8" Female QC 90° x 1/2" Male flare

1/4" Female QC x 1/8" NPT Fe.

5/16" QC Str. x 1/4" Male flare

5/16" QC 90° x 1/4" Male flare

1/4" QC Str. x 5/16" Male flare

19222* 1/4" QC 90° x 5/16" Male flare

ACME 1/2" couplers – auto straight

1/4" Female QC x 1/2" Acme Male

1/4" Female hex x 1/2" Acme Male for permanent applications

1/2" Acme Male x 1/2" Acme Female 1/2" Acme Female x 1/4" Male flare

1/2" Acme Female x 1/8" NPT Male
1/2" Acme Female x 14 mm Male
Quick Coupler ACME X 1/4 MPT

1/4" Female QC Str. x 1/4" NPT Fe.

1/4" Female QC 90° x 1/8" NPT Fe.

1/4" Female QC 90° x 1/4" NPT Fe.

90° Quick couplers

19220

19202

19203

19214

19110

19118

19218*

19121

19221*

19122* 19222*

19161

19162

19166

19168

- Full size with deep knurling for easy handling
- CH14 "Adjust-a-Valve" opener in all 1/4" Female ends
- Acme conversion couplers are available for recovery tank threads and R-134A cylinder threads
- 5/16" Conversion couplers available
- Made in the USA

UPC#	Description
Straight	t quick couplers
19125	1/8" Female QC x 1/4" Male flare (Ford)
19120	3/16" Female QC x 1/4" Male flare (GM)
19101	1/4" Female QC x 1/4" Male flare
19102	1/4" Female QC x 3/8" Male flare
19111	1/4" Female QC Str. x 1/8" NPT Male
19116	1/4" Female QC Str. x 1/4" NPT Male
19103	3/8" Female QC x 3/8" Male flare
19104	3/8" Female QC x 1/4" Male flare
19115	1/2" Female QC x 3/8" Male flare
19114	3/8" Female QC x 1/2" Male flare
19020	Gaskets (10 pk)

QUICK COUPLERSSchrader core in male end



- All couplers have Schrader valve cores in Male flare end
- Female coupler end has deep knurling for easy handling
- Patented CH14 "Adjust-a-Valve" opener in all 1/4" Female ends
- Made in the USA

UPC#	Description		
Straight quick couplers			
19171	1/4" Female QC x 1/4" Male flare		
19172	3/8" Female QC x 1/4" Male flare		
90° Ber	nd quick couplers		
19191	1/4" Female QC x 1/4" Male flare		
19192	3/8" Female QC x 1/4" Male flare		
45° R-4	IOA couplers		
19173	5/16" Female QC x 1/4" Male flare		
19174	1/4" Female QC x 5/16" Male flare		
19175	5/16" Female QC x 5/16" Male flare		

SEALRIGHT™ QUICK COUPLERS

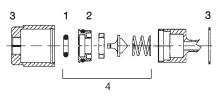


SealRight™ fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet nonventing regulations and preventing finger burns. One-piece attaches quickly, saving up to 50 percent in time compared to 2-piece quick couplers.

- Works with or without Schrader core
- Gaskets resist deterioration from SealRight repair assembly components
- CFC, HCFC, HFC refrigerants and refrigerant oils. Field serviceable
- Made in the USA



UPC#	Description
19109	1/4" SealRight™ Str. x 1/4" Male flare
19208	1/4" SealRight™ 45° x 1/4" Male flare
19209	1/4" SealRight™ 90° x 1/4" Male flare
19100	Set of 19109 and 19209
19117	1/4" SealRight™ Str. x 3/8" Male flare
19217	1/4" SealRight™ 90° x 3/8" Male flare
19128	1/4" SealRight™ Str. x 1/8" NPT Female
19129	1/4" SealRight™ Str. x 1/4" NPT Female
19169	Acme 1/2" SealRight™ x 1/2" Acme
19163	Acme 1/2" SealRight™ x 1/4" Male flare



UPC#	Description
	ht repair assembly components
19037	"O" rings (10 pak) (1)
19038	Plug assembly with all seals (2)
19039	Nut and clip (3)
19040	Rebuild kit (4)
19041	Overhaul kit with all above parts
19045	Gasket set

SINGLE VALVES



- Individual manifolds for hi- and lo-sides of system
- Individual valves are available in two or three port versions
- Nylon seals with double "O" rings

Low-side manifold R600A

High-side manifold R600A/600/290

Low-side manifold R600A/600/290

Made in the USA

40338

40339

40340

UPC#	Description
40317	High-side manifold with gauge
40318	Low-side manifold with gauge and hook
40315	2 Port valve – 1/8" NPT Female x 1/4" Male flare
40325	3 Port valve – 1/8" NPT Female x 2 1/4" Male flares
40350	2 Port valve – 1/4" QC Female with CH14 depressor x 1/4" Male flare with Schrader
40326	Low-side 1/4" valve for R-32 and R-410A

QUICK COUPLER GASKETS AND "O" RINGS











The only gaskets designed for optimum performance with YELLOW JACKET® Charging Hoses. Works with all refrigerants. Manufactured to strict tolerances to resist blow out.

UPC#	Gasket/ Part	Quantity	Application
19020	CH20/10	10	1/4" Hose 5/16" Hose 1/2" Acme hose
19005	CH20/100	100	1/4" Hose
19011	CH11	10	3/8" Hose
19015	CH80	10	1/2"-5/8" Hose
19012	E hose	10	3/4" Hose
18001**		10	Cylinder valve
19021	1/8" Gasket	10	1/8" Coupler
19022		5	60667 Recovery pliers
19010	CH20 and CH14	6 3	1/4" Hose opener
UPC#	"O" ring	Quantity	Application
19034	-	10	"O" ring for
19037	_	10	14 mm Male 1/4" SealRight
10001		.0	"O" ring

UPC#	Description
59651	1/4" Copper gaskets (10 pak)
59652	3/8" Copper gaskets (10 pak)
59653	1/2" Copper gaskets (10 pak)
59654	5/8" Copper gaskets (10 pak)
59655	3/4" Copper gaskets (10 pak)

PARTS KITS AND EMPTY BOXES



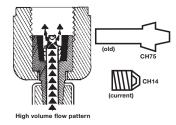
The 19003 complete kit includes the following gaskets, valve openers and SealRight parts in a 12 compartment case.

- Five 1/8" gaskets
- Five 1/8" valve openers
- One hundred 3/16"-1/4" gaskets
- Ten 1/4" Adjust-a-Valve openers
- Ten 1/4" flat valve openers
- Ten 3/8" gaskets
- Ten 1/2"-5/8" gaskets
- · Ten cylinder valve flat gaskets
- Ten SealRight "O" rings
- Four SealRight plug and seal assemblies
- Four 1/4" SealRight nut and clip
- Made in the USA



		
UPC#	Description	
19003	Complete kit	
19004	11" x 6-3/4" x 3/4" Kit box with parts label	
60178	11" x 6-3/4" x 3/4" 12 Compartments empty	
60135	11" x 6-3/4" x 3/4" 18 Compartments empty	

"ADJUST-A-VALVE™" **OPENERS**



The patented Adjust-a-Valve™ reaches out-of-tolerance Schrader valves in 1/4", 3/16" and 5/16" couplers. Simply rotate the opener with needle nose pliers to the desired height and when finished, rotate it back. Adjust-a-Valve[™] for 1/4" and 5/16" hoses is the same.

UPC#	Description
19302	Adjust-a-Valve [™] openers (10 pak)
19301	1/4" Valve openers (10 pak)
19304	1/8" Valve openers (10 pak)

GASKET REMOVER PICK

Easily remove worn gaskets from hoses and replace with new gaskets. Sharp, angled pick is long enough to pull the gasket from deep inside the hose. Notch on the opposite end of the pick for placing the depressor inside the hose. Pick stores inside case along with five CH20 gaskets (included) for protection and safety.





UPC#	Description
19047	Gasket Remover Pick (Individual)
19048	Counter Display (12 pak)

AUTOMOTIVE R-134a A/C COUPLERS

Premium with control valve



Couplers interface with R-134a service ports. 14 mm Female thread or 1/4" Male flare available.

- Quick, easy connect/disconnect
- Control valve for access to systems even at working pressures
- Integral safety sleeve holds coupler securely to service port
- · Highest flow characteristics
- Low profile for tight applications



UPC#	Description
41301	Chrome hi-side x 14 mm R-134a coupler
41302	Chrome lo-side x 14 mm R-134a coupler
41327	Hi-side x 3/8" Male fl., R-134a coupler
41328	Lo-side x 3/8" Male fl., R-134a coupler
41337	Hi-side x 1/4" Male fl., R-134a coupler
41338	Lo-side x 1/4" Male fl., R-134a coupler
41300	Replacement "O" rings (2 pak)

LIQUID CHARGING ADAPTER

Convert liquid to saturated vapor



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems. A liquid charging adapter is necessary for safe and fast liquid (saturated vapor) charging through the low pressure side of a system. The YELLOW JACKET® liquid charging adapter connects to the cylinder valve or refrigerant tank.

- To protect the compressor, adapter orifice reduces liquid flow to a level below compressor capacity
- Refrigerant flashes off into a saturated vapor to speed entry
- Eliminates the time and work of heating cylinders
- Made in the USA



UPC#	Description
41123	1/4" Liquid charging adapter
41124	5/16" Liquid charging adapter
41132	Replacement "O" ring/orifice for 1/4" adapter
41138	Replacement "O" ring/orifice for 5/16" adapter

AUTOMOTIVE R-134a ECONOMY A/C COUPLERS



A basic R-134a service coupler with no control valve. Snaps on for instant flow.

UPC#	Description
41318	Lo-side coupler with 1/4" flare
41317	Hi-side coupler with 1/4" flare
41305	Replacement "O" ring set (6 pak)

AUTOMOTIVE 1234YF A/C COUPLERS



- Couplers interface with 1234yf service ports.
- M12x1.5-6H Female thread
- · Quick, easy connect/disconnect
- Meets SAE J639

500000	MADE IN
	THE USA

UPC#	Description
41441	1234yf hi-side coupler, 12mm
41442	1234yf lo-side coupler, 12mm

AUTOMOTIVE A/C FITTINGS COUPLERS



Adapter fittings designed to work with 1/2" Acme or 14 mm threads.

UPC#	Description
19157*	14 mm Male x 1/4" Male flare
19156*	14 mm Male x 3/8" Male flare
19161	1/2" Acme Male x 1/4" Female flare
19165	1/2" Acme Female x 1/4" Male flare
19158	1/2" Acme Female x 14 mm Male
19162	1/2" Acme Male x 1/4" Female flare hex
19168	1/2" Acme Female x 1/8" Male pipe
19169	1/2" Acme Male x 1/2" Acme SealRight
19163	1/2" Acme SealRight x 1/4" Male flare
19166	1/2" Acme Female x 1/2" Acme Male
40265	1/2" Acme Male x 1/8" NPT Male half union
19142	1/2" Acme union
19153*	1/2" Acme Female hex x 13 mm R-134a lo-side Male for A/C system

* Not pictured

7.1

WIRELESS AND ELECTRONIC INSTRUMENTS















Wireless and Electronic Instruments

Convenient wirelsss measurements for complete HVAC/R diagnostics.





· One-year warranty





YJACK™ PROBES & P51-TITAN MANIFOLD - SEE CHARGING SYSTEM & DIAGNOSTIC TOOLS

WIRELESS REFRIGERANT CHARGING SCALE



Convenient Wireless Measurements!

With a 220 lb. capacity, large platform and wireless Bluetooth® communication, this accurate scale makes refrigerant charge measurements fast and easy. Just connect with any smart device and you are ready to go...with .05% accuracy and 0.2 oz. resolution, service technicians can count on precision measurements every time. Save the charging measurements to your smart device, and you have a permanent record for that installation or service call.

Features and Benefits

Low Energy Bluetooth® communication

· Lightweight, durable design

· Stability control for accurate

220 lb. (100kg) capacity

• 0.05% accuracy & 0.2 oz. resolution

Overload protection

Oversized platform (12 in./

Integrated handle

· Carrying case included

· 9V battery included



The Wireless Refrigerant Scale 68864 is controlled and operated with any Smart Device via Bluetooth® and the YJACK VIEW™ app.

READINGS SCREEN OVERVIEW

YJACK VIEW™ READINGS SCREEN OVERVIEW

- · Readings screen will display the scale weight and will also display the weight change and elapsed time since the last set
- Both readings can be set/reset by pressing on the corresponding box
- · Weights are displayed as lb./oz. or kg



Specifications

Weight Capacity: 220 lb. / 100 kg

Overload Protection:

Pounds and ounces (lb & oz) Measurement Units:

or kilograms (kg) Reading Accuracy: 0.05% of reading

Reading Resolution:

32°F - 122°F (0°C - 50°C) Operating Temperature:

Scale Platform Diameter: 11.8 in (300mm) Scale Weight: 6.4 lb. (2.9 kg) Power: 9V battery (included)

Battery Life: 40+ hours App OS Compatibility: iOS or Android

Bluetooth® Technology: Bluetooth® Low Energy (BLE)

Description

Wireless refrigerant scale, 220 lb.

REFRIGERANT CHARGING SCALE



Accurate, compact and economical!

With a 220 lb. capacity and solid accuracy, this compact YELLOW JACKET® charging scale can handle the job, no matter what the size. Service technicians can count on precise information while on the job with 0.05% accuracy and 0.17 oz. resolution.

Features and Benefits

- Compact and lightweight
- Rugged, low profile design
- Maximum weight: 220 lb. (100 kg)
- · Large, backlit LCD
- Control module with six foot cord stores under the scale when not in use
- Stability indicator shows when the scale is ready to take a reading
- Over-range indicator
- Auto power off
- Long battery life 40 hours continuous battery life
- Battery life indicator
- · Carrying case with storage pouch and shoulder strap included

Specifications

Weight Capacity: 220 lb. / 100 kg

Resolution: 0.17 oz. / 0.011 lb. / 5g Accuracy: +0.05% of reading + 10g

Display: 05" (1.27 cm) LCD

(7-segment)

Readout Options: Lbs. / oz. / kg

10.6" x 10.6" x 2.9" Overall Size:

(27.1 cm x 27.1 cm x 7.4 cm)

Overall Weight: 8 lbs. (3.6 kg)

Battery Type: 5 x 1.5V AAA alkaline batteries

Battery Life: 40 hours continuous

Warranty: 1 year

14° F to 104° F Operating Temperature:

(-10° C to 40° C

Temperature Fluctuation Range: 41° F / hr. (5° C)

5° F to 122° F Storage Temperature:

(-15° C to 50° C)

Relative Humidity: 50 - 85%

Control module stores inside the platform when not in use.



UPC#	Description
68862	220 lb, charging scale with bag

DIGITAL ELECTRONIC CHARGING SCALES

Electronic charging scales show the progress of the charge as it's happening, indicating when to close the valves and stop the charge. Works with any refrigerant in any system.

- Calibration standards traceable to NIST
- Removable control module on retractable 5' coiled cord
- Mechanical overload protection and "OL" alert on LCD
- Industrial grade circuitry for long life performance
- Minus (-) reading shows weight removed from the platform

• Single point load cell strain gauge for long-term stability and accuracy



Full bridge configuration with four strain gauges for accuracy.

Programmable electronic charging scales have added capabilities for automated, faster and more economical charging. Simply program the charging weight and the valve will close automatically when the charge is complete.

- Mesh filter in charging module protects solenoid valve from debris
- Low flow triggers automatic hold to extend solenoid life
- Schrader valve prevents backflow through solenoid
- Charging accuracy is equal to scale accuracy +/- 0.25 oz.
- Solenoid valve with 400 psi maximum operating pressure differential (MOPD) allows metering broad range of refrigerants
- Made in the USA







Convert standard 68802 and 68800 scales to programmable with upgrade kits 68804 and 68805. Each kit includes a charging module, power pack, instruction manual and larger carrying case to hold all parts.





UPC#	Description
68802	Electronic charging scale 110 lbs. (50 kg)
68812	Electronic charging scale 220 lbs. (100 kg)
68803	Programmable electronic charging scale 110 lbs. (50 kg)
68813	Programmable electronic charging scale 220 lbs. (100 kg)
68800	Metric electronic charging scale 50 kg (110 lbs.)
68810	Metric electronic charging scale 100 kg (220 lbs.)
68801	Metric programmable charging scale 50 kg (110 lbs.)
68811	Metric programmable charging scale 100 kg (220 lbs.)
68804	115V Upgrade kit
68805	230V Upgrade kit
68806	115V Adapter
68807	230V Adapter
68818	230V Adapter (UK)
68835	Replacement battery cover (black)
69089	Replacement battery cover (blue)
68808	Charging module

Specifications

Resolution: 0.1 oz./0.01 lb./0.01 kg

Display: Sealed LCD with high resolution 0.5" characters

Keypad: Moisture resistant membrane keypad with tactile metal domes

Operating temperature range: 32° to 122°F (0° to 50°C) Storage temperature range: -4° to 158°F (-20° to 70°C) Power: 9V battery, battery life approximately 25 hours

Specifications: 110 lbs. (50 kg) scale

Platform size: 9" x 9" (228 mm x 228 mm)

Case size: 15.5" x 12.25" x 3.25" (394 mm x 311 mm x 83 mm)

Accuracy: ± 0.5 oz./ ± 0.03 lb./ ± 0.015 kg or 0.1% of reading,

whichever is greater

Total unit weight: 9 lbs. (4.1 kg)

Specifications: 220 lbs. (100 kg) scale

Platform size: 11.3" x 11.3" (287 mm x 287 mm)

Case size: 18" x 13" x 4.25" (457 mm x 330 mm x 108 mm)

Accuracy: \pm 1.0 oz./ \pm 0.06 lb./ \pm 0.03 kg or 0.1% of reading,

whichever is greater

Total unit weight: 12 lbs. (5.4 kg)



Model 68802 - 110 lbs. (50 kg) 9" x 9" (228 mm x 228 mm)

Model 68812 - 220 lbs. (100 kg) 11.3" x 11.3" (287 mm x 287 mm)

MANTOOTH® WIRELESS VACUUM GAUGE AND P/T GAUGE COMBINATION



The YELLOW JACKET® ManTooth®-PTV (67023) shown above provides vacuum and high- and low-side P/T readings. This full set includes dual non-tethered pressure/temperature gauges, two wired temperature clamps, and one interchangeable vacuum gauge. The single ManTooth® PTV (67021) can be combined with an existing ManTooth® P/T device (67001) for adding wireless vacuum capability and/or expanding it to a full system analysis tool. Simply update your ManTooth® P/T app to version 2.0, connect to the 67020 hardware, and you're ready to go!

To enable mounting on 5/16" systems, add coupler 19221 (90°) or 19121 (straight).



Product Features:

- Interchangeable/removable vacuum gauge
- Easy-to-clean vacuum sensor
- · Built-in Schrader cores for easy refrigerant charging
- Operates with and without hoses attached
- Two year warranty
- High impact glass reinforced housing
- Rechargeable LiPo battery for long battery life
- Robust/rugged vacuum sensor
- Integral magnet for mounting on framework
- Integrated rubber side grip for easy handling

App Features:

- Available in English, French, Spanish, Dutch, and German.
- Data logging to record and document values during servicing
- Improved connectivity and reconnect process if signal is lost
 Ability to download logged data for graphing in Excel
- For iOS and Android devices
- Backwards compatible with existing ManTooth® Devices (excluding vacuum gauge)

UPC#	Description
67020	ManTooth®-V (Vacuum only) with side grip
67021	ManTooth®-PTV Single with side grip
67023	ManTooth®-PTV Dual with side grip
69030	Vacuum sensor cleaning kit
UPC#	Replacement Parts
67044	Vacuum sensor
67012	USB cord
67014	Carrying case
93394	Tether cap
19020	Hose gaskets (10 pak)
19121	Straight 5/16" Flare quick connect x 1/4" Male coupler
19221	90° 5/16" Flare quick connect x 1/4" Male coupler
19302	Valve depressor (10 pak)
19305	Schrader valve (10 pak)

Pressure/Temperature Specifications

Pressure Sensing Resolution 0.1 psi, 0.1 bar, 1 kPa, 0.001 MPa, 0.01 kg/cm²

Pressure Sensing Accuracy 0.5% of full scale at 25°C; 1% of full scale 55°F to 130°F; 2% of full scale -40°F to 248°F

Working Pressure 0 – 700 psia (48.3 bar)

Proof Pressure Tolerable pressure without internal damage 1000 psia
Burst Pressure Tolerable pressure without loss of seal 1500 psia

Temperature Sensor Range (Instrument) Sensing element: -40°F to 266°F (-40°C to 130°C); Max Cord temp: 176°F (80°C); Max Clamp Temp: 203°F (95°C)

Temperature Display Resolution 0.1°F or °C
Temperature Accuracy (Instrument) ±0.2°C (±0.36°F)

Working Temperature -4°F to 160°F (-20°C to 71°C) Limited by battery

Storage Temperature -4°F to 160°F (-20°C to 71°C) - for best battery performance do not store at over 100°F (38°C)

Working Humidity 0-95% RH (non-condensing)

IP Class IP 50

Bluetooth Range 70-90 ft. (Class 1) or 30-40 ft. (Class 2) in most cases (varies depending on the Bluetooth capability

of smart device used). Under perfect conditions (clear line of sight and low interference)

communications can extend up to 300 feet.

Bluetooth Radio Class 1 Bluetooth 2.1 Radio

Size and weight 6" long x 1.6" wide x 2.3" thick (15.3 x 4 x 5.8 cm); 0.5 lbs (225 grams)

Superheat and Subcool

Automatically calculated by the ManTooth® App

Max. and Min. Pressures Displays and records the maximum and minimum pressures

Refrigerant Database 98 NIST refrigerant profiles included; upgradeable

Screenshot Feature Save pressure and temperature readings from your sessions; automatically organize

Temperature Sensors

Capable of measuring 2 temperatures using high accuracy NTC thermistors

Pressure Transducers

System Attachment

Capable of measuring 2 temperatures using high accuracy NTC thermistors

67001/67003 – one pressure transducer; 67002 – two pressure transducers

Very small internal volume minimizes refrigerant loss during system analysis.

Pressure Zeroing Simple single button zeroing at the start of each session

Elevation Compensation Enter elevation at the start of the session for effortless psia compensation

Battery Rechargeable LiPo battery for 10+ hours continuous life

Vacuum Specifications

Cord Length Approximately 33"

Magnet Strength 8 lbs. holding force
Operational Temperature Range 10 – 122F 12 – 50C

Calibration Calibration standards traceable to NIST

Resolution .1 micron Warm-Up Time and Response Time Instant

0.1 psi, 0.1 bar, 1 kPa,

MANTOOTH® WIRELESS DIGITAL PRESSURE/TEMPERATURE GAUGE



The YELLOW JACKET® ManTooth® Wireless Digital Pressure/ Temperature Gauge provides wireless connection to your smart device so you can test the system without losing refrigerant (no hoses or manifolds necessary)!

The free downloadable ManTooth® RSA app wirelessly calculates and displays the system's actual pressures, temperatures, superheat and subcooling in an easy-to-read color format on your iPhone®, iPad® or Android™ device.

Additional Features:

- · Built-in Schrader ports to easily adjust refrigerant charge
- Range up to 400' (unobstructed)
- YELLOW JACKET® ManTooth® RSA app (free download)
- Two-year warranty
- Screenshot feature allows you to save pressure and temperature readings from your sessions which can be automatically organized by location and unit being serviced
- Share screenshots via e-mail right from your phone
- Easily track and store service history
- Rechargeable lithium polymer battery with 10 hours battery life

The ManTooth® Single Pressure Wireless Digital P/T Gauge includes a single hardware device and clamp. Two single units can be purchased in a case by ordering Part #67003.

For dual pressure readings, use two of the 67001 ManTooth® single pressure gauges or the 67002 ManTooth® Dual Pressure Unit which comes with a P/T module, tether unit and two temperature probe clamps. This unit also includes a convenient carrying case which can be purchased separately for the single pressure unit.

UPC#	Description
67001	ManTooth® Single Pressure Gauge (includes P/T Module with boot, temperature probe clamp, and USB cable)
67002	ManTooth® Dual Pressure Gauge Set (includes P/T Module and tether unit with boots, two temperature probe clamps, and USB cable in case)
67003	Two (2) ManTooth® Single Pressure Gauges (includes two P/T Modules with boots, two temperature probe clamps, and two USB cables in case)
UPC#	Replacement Parts
UPC# 67010	Replacement Parts Clamp
67010	Clamp
67010 67012	Clamp USB Cord
67010 67012 67013	Clamp USB Cord Blue boot
67010 67012 67013 67014	Clamp USB Cord Blue boot Carrying case
67010 67012 67013 67014 93394	Clamp USB Cord Blue boot Carrying case Tether cap

Specifications:

Pressure Sensing Resolution

Pressure Sensing Accuracy

Working Pressure Proof Pressure

Burst Pressure

Temperature Sensor Range (Instrument)

Temperature Display Resolution Temperature Accuracy (Instrument) Working Temperature Storage Temperature Working Humidity IP Class **Battery Life** Range

Bluetooth Radio Size

Weight Superheat and Subcool

Max. and Min. Pressures

Refrigerant Database

Screenshot Feature

Temperature Sensors

Pressure Transducers

System Attachment

Pressure Zeroing

Elevation Compensation

Battery

0.001 MPa, 0.01 kg/cm² 0.5% of full scale at 25°C; 1% of full scale 55°F to 130°F; 2% of full scale -40°F to 248°F 0 - 700 psia (48.3 bar) Tolerable pressure without internal damage 1000 psia Tolerable pressure without loss of seal 1500 psia Sensing element: -40°F to 266°F (-40°C to 130°C) Max Cord temp: 176°F (80°C): Max Clamp Temp: 203°F (95°C) 0.1°F or °C ±0.2°C (±0.36°F) -4°F to 160°F (-20°C to 71°C) -4°F to 160°F (-20°C to 71°C) 0-95% RH (non-condensing) 10+ hours continuous 70-90 ft. (Class 1) or 30-40 ft. (Class 2) in most cases (varies depending on the Bluetooth capability of smart device used). Under perfect conditions (clear line of sight and low interference) communications can extend up to 300 feet. Class 1 Bluetooth 2.1 Radio 6" long x 1.6" wide x 2.3' thick (15.3 x 4 x 5.8 cm) 0.5 lbs (225 grams) Automatically calculated by the ManTooth App Displays and records the max and min pressures 126 NIST refrigerant profiles included; upgradeable Save pressure and tem perature readings from your sessions which can be automatically organized by location and serviced unit Capable of measuring 2 temperatures using high accuracy NTC thermistors 67001/67003 - one 67002 - two Very small internal volume minimizes refrigerant loss during system analysis. Simple single button zeroing at the start of each session

Enter at start of session for effortless psia compensation Rechargeable LiPo battery









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OMNI™ DIGITAL VACUUM GAUGE



The YELLOW JACKET® OMNI™ Digital Vacuum Gauge is an easy-to-use, compact vacuum gauge that is loaded with features for the price. And it's rugged, too. Made with high impact, glass reinforced housing, it survives moisture and accidental drops or attachment to a high pressure line. The easy-to-clean vacuum sensor handles 450 psi positive pressure and reads several units of vacuum (microns, millibar, Torr and Pascal).

- · Visual signal when target vacuum level is reached
- Electronic paper display for clear visibility even in direct sunlight
- · Rich and intuitive user interface turn it on and it is ready to use with default settings
- 45° bend for fitting (1/4" or 5/16")
- · Automatic power down and time out
- · Power savings multiple time-out selections
- · Low battery indicator and automatic power-down when inactive
- · Adapter fittings available
- Made in the USA



Compact, easy-to-use, and more unique features than any other unit on the market.

Specifications

Vacuum Reading Resolution:

1 micron (from 1,000 to 5 microns) 10 microns (from 10,000 to 1,000 microns)

100 microns (from 99,999 to 10,000 microns)

Display Vacuum Measurement Accuracy:

+/- 20% of reading (from 10,000 to 25 microns)

Vacuum Reading Range:

5 to 99,999 Microns

(133.3 mBar, 100 Torr, 13,333 Pa);

Progress bar-graph from Atmosphere (ATM)

to 99,999 Microns

Proof Pressure: 450 psi

Working Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -4°F to 140°F (-20°C to 60°C) Working Humidity: 0-95% RH (non-condensing)

Class:

Battery Life: 150+ hours continuous Battery: (2) AAA batteries (included) Size: 6" long x 1.6" wide x 1.6" thick

including fitting (15.3 x 4 x 4 cm)

Weight: 0.39 lb (175 grams)

Warranty One year

UPC	Desc	ription
69020	OMNI [*]	Digital Vacuum Gauge with 1/4" Coupler
6902	OMNI [†]	Digital Vacuum Gauge with 5/16" Coupler



VACUUM SENSOR CLEANING KIT

Follow cleaning procedure for these YELLOW JACKET® vacuum gauges: 69020 series OMNI™, 67044 series used with P51 digital manifold and Mantooth gauges or 69086 digital vacuum gauge.

Made in the USA



UPC#	Description
69030	Vacuum Sensor Cleaning Kit

DIGITAL VACUUM GAUGESeven units of vacuum for confidence

This easy-to-use gauge shows that air and moisture have been removed from the system. A simple push of a button changes the display readout between 7 units of measurement. Each displays from atmosphere to 10 microns (bargraph indication above 25000 microns) of vacuum to let you know that your vacuum pump is clean and performing properly. If the sensor gets dirty, simply plug a new sensor into the gauge, run through a quick calibration process and be back on the job within minutes.



This product is protected by one or more of U.S. Patent Number: 6,779,350; 6,832,491; 7,073,346; 7,310,965; and 7,428,822.

- Unique patented thermal conductivity sensor automatically compensates for temperature
- Replaceable, cleanable, plug-in sensor (Part #69087) handles 450 psi positive pressure
- Displays seven different units of vacuum (microns, milliTorr, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)
- 12" coiled sensor cord stretches to 24" for easy reach, connectivity and readability of display
- Low battery indicator
- Automatic shut-off after 20 minutes
- Calibration standards traceable to NIST
- 32° to 122°F (0° to 50°C) operating temperature range
- 14 oz. (392 g) with battery
- Approximately 25 hours continuous battery life
- Accuracy ±20% of reading
- Made in the USA

UPC#	Description
69086	Hand-held vacuum gauge with fabric carry pouch
69087	Replacement sensor for older models without detachable cords
69088	Replacement cable for original version - not detachable
40819	Replacement cable for new version - detachable
69101	Replacement sensor and cord assembly
69091	Replacement fabric pouch
69030	Vacuum Sensor Cleaning Kit

SUPEREVAC® LCD VACUUM GAUGE Full range from atmosphere to 1 micron

The SuperEvac® LCD vacuum gauge combines thermocouple sensor technology with advanced electronics for precise readings and repeatability not found with thermistor sensors or analog meters.

Thermocouple technology has long been proven in laboratory and precision industrial instrumentation for sensing the deep vacuum range. Thermocouple sensors are factory calibrated and exhibit few of the electronic variances of thermistor sensors found in many other electronic gauges. Durable molded case with storage for sensor, cable and brass connector.

	Ci				

Response time: 3 seconds Calibration: Automatic Warm up: 3 seconds

Sensor cable: 5.5' (167 cm) coiled Sensor connection: 1/4" Male flare

Maximum pressure: To avoid sensor damage, do not exceed 5 psig

Operating temperature range: 32° to 120°F (0° to 49°C)

Display: 0.5" LCD with battery check

Replacement cord

Automatic shut-off: Yes

Power: D cell battery, 70 hours continuous battery life Dimensions: 9" x 12.25" x 2.37" (230 mm x 310 mm x 60 mm) Accuracy: ± 20% of reading from 10 to 10,000 microns

UPC#	Description
69075	SuperEvac® LCD vacuum gauge full range complete in case
69067	Optional ball valve to add to sensor 1/8" NPT Female x 1/4" Female flare
69071	Brass connector 1/4" Female flare x 1/4" Female flare
69073	Replacement sensor for 69070, 69075
19110	Optional coupler to add to sensor 1/8" NPT Female x 1/4" Female flare



Thermocouple sensor features:

- · No adjustments or warm-up. Stays calibrated after on/off switching and long evacuations
- Automatic battery compensation
- Automatic ambient temperature compensation
- Replacement sensor requires no calibration

LCD gauge features:

- Automatic off 20 minutes after power up and no change
- Normal handling and jarring will not affect the LCD reading
- · Case protects electronic circuitry and sensor
- Calibration standards traceable to NIST
- · Precision circuitry controls sensor and translates sensor input into micron readings
- Made in the USA



DIGITAL LCD ECONOMY VACUUM GAUGE



This product is protected by one or more of U.S. Patent Number 6,779,350; 6,832,491; 7,073,346; 7,310,965; and 7,428,822.

The digital LCD economy vacuum gauge indicates air and moisture have been removed from the system. Track down the 14 level bargraph from atmosphere to 25 microns to know that the system is clean and the vacuum pump is performing properly. Packaged complete with 9V alkaline battery and hanging hook.

- Unique thermal conductivity sensor automatically compensates for temperature with no calibration
- Simple On/Off controls
- Easy-to-clean sensor handles 450 psi positive pressure
- Rugged contractor-grade construction with tough ABS housing and solid state circuitry for accuracy
- Automatic battery saver shuts gauge off after 20 minutes with no reading changes
- · Low battery indicator
- Calibration standards traceable to NIST
- Patented technology
- Made in the USA

To keep the 69080 vacuum gauge accurate, it is best to avoid oil contamination. Keep the sensor vertical whenever possible and connect the gauge directly to the system, away from the pump.

UPC#	Description
69080	Digital LCD vacuum gauge with battery, hook and pouch
69081	Replacement soft-sided protective case
69079	Replacement battery door and screw
69095	Tee fitting

POCKET THERMOMETERS

1" and 1-3/8" dial thermometers are adjustable with a 5" stainless steel stem. Colored sheath with pocket clip.

- Individually calibrated
- Shock resistant



UPC#	Description
69251	1" Dial 0° to 220°F (12 pak)
69252	1" Dial 40° to 160°F (12 pak)
69253	1" Dial 50° to 550°F (12 pak)
69255	1-3/8" Dial -40° to 160°F (-40° to 70°C) (12 pak)
69256	1-3/8" Dial 0° to 220°F (-10° to 110°C) (12 pak)
69265	1" Dial 0° to 70°C (12 pak)





POCKET DIGITAL THERMOMETER



Digital head rotates 180° for easy reading.

- On/off button
- Auto off after 10 minutes
- Reading updates every second
- 5" (125 mm) stem

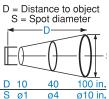
UPC#	Description
69107	Digital thermometer -58° to 302°F (-50° to 150°C)
69250	69107 display (12 pak)
69110	Battery

PISTOL-GRIP INFRARED THERMOMETER

With wide measurement of -40° to 932°F, this easy-to-use tool is the effective choice for high or low temperature and refrigeration applications. For accuracy and resolution, the focal point is a tight 10:1 ratio with laser sighting.

- Selectable 3-point emissivity for simple set-up
- Backlight for dark area use
- °F/°C switchable
- ± 2% or 2°C accuracy
- 0.1°F resolution at -40° to 212°F (-40° to 100°C)
- Fast response time of 500 msec





UPC#	Description
69228	Pistol-grip infrared thermometer

DIGITAL THERMOMETER PROBES Differential and single

Single Probe "K" type:

- Single "K" type input
- °F/°C switchable
- Maximum and minimum hold
- · Low battery indicator
- Power off after 30 minutes

Differential "K" type:

- Dual "K" type thermocouple inputs
- T1, T2 or T1-T2 differential readings
- Resolution 1°

Specifications

Temperature range: -58° to 1999°F (-50° to 1300°C)

Resolution: 0.1 or 1°

Display: LCD 5/8" (16 mm)

Operating temperature range: 32° to 120°F

(0 to 49°C)

Storage temperature range: -20° to 130°F

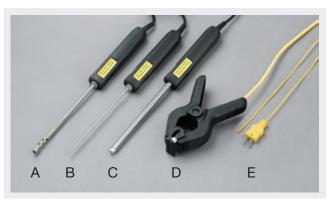
(-29 to 54°C)

Power: 9V, battery life approximately 200 hours

Dimensions: 7.2" x 2.75" x 1.6" (180 mm x 70 mm x 40 mm)

Accuracy: -58° to 1800°F ± (0.3% of reading

 $+ 2^{\circ}F$); -50° to 982°C \pm (0.3% of reading $+ 1^{\circ}C$)



UPC#	Description	Maximum temperature	Length	Response time (sec.)
69215	Type "K" air probe (A)	1112°F (600°C)	4 ft. (1.21 m)	5
69217	Type "K" 1.375 clamp-on probe (D)	248°F (120°C)	10 ft. (3.05 m)	3
69218	Type "K" general purpose probe (E)	500°F (260°C)	3 ft. (0.91 m)	3
69220	Type "K" surface probe (C)	1650°F (900°C)	4 ft. (1.21 m)	3
69222	Type "K" puncture probe (B)	1112°F (600°C)	4 ft. (1.21 m)	12

ANEMOMETER



This hand-held instrument reads both air velocity and temperature simultaneously when balancing air conditioning/heating ventilation systems.

UPC#	Description
68915	Anemometer kit
68916	Replacement 2.75" (70 mm) diameter probe assembly

- Microprocessor controller
- · Calculates cfm air volume
- Records minimum and maximum readings
- · Averages air velocity
- Display "hold" button freezes LCD reading
- °F/°C switchable
- Auto off after 20 minutes
- RS232 output

Specifications

Air flow ranges: 125 - 4900 ft/min Resolution: 1 ft/min and 0.01 m/sec.

Accuracy: ±2%

Temperature: 14° to 122°F (-10° to 50°C)

Resolution: 0.01°F and 0.1°C Accuracy: ±1.0°F (±0.6°C)

Power: 9V battery, battery life approximately

100 hours

Fan diameter: 2-7/8" (70 mm)

DIGI-ALARM THERMOMETER



This compact unit measures from -58° to 392°F (-50° to 200°C) and triggers an alarm at the high and low programmed temperatures.

- No calibration
- °F/°C switchable
- Data hold function
- Key tone for operation confirmation
- Maximum/minimum temperature memory
- Foldaway stand
- Automatic self test after battery installation

Specifications

Measurement range: -50 to 200°C / -58 to 392°F

Accuracy: ±1°C between -19.9 to 119.9°C

±2°C between 120 to 199.9°C

otherwise ±3°C

+1.8°F between -3.8 to 183.8°F ±3.6°F between 248 to 391.8°F

otherwise ±5.4°F

Display resolution: 0.1° over full range Alarm resolution: 1° over full range

Sampling rate: 1 second Battery: Requires one 1.5 volt size AAA/UM4 or

equivalent (included)

Ambient temperature: 0 to 50°C / 32 to 122°F

UPC#	Description
69239	Digi-alarm thermometer

8.1

LEAK DETECTORS AND LEAK MONITORS





3. RECOVERY MACHINES

4. VACUUM PUMP SYSTEMS

5. VACUUM AND CHARGING HOSES

6. HOSE ADAPTERS, VALVES & PARTS

7. WIRELESS AND ELECTRONIC INSTRUMENTS

9. HEATING INSTRUMENTS

10. SYSTEM TOOLS



AccuProbe™ Leak Detectors

The only tool you will need for fast, easy and certain leak detection.



ACCUPROBE™ IR LEAK DETECTOR WITH INFRARED SENSOR









Use the infrared (IR) sensor for ultimate sensitivity, accuracy and reliability. Identifying the smallest leaks is fast and easy. Detects all CFC, HCFC, HFC and HFO refrigerants, including R-134A, R-404A, R-410A and R-1234YF. The Smart Alarm LED shows the size of the leak on a rising scale. Coupled with two modes for sensitivity gives the AccuProbe™ IR the ability to locate a leak of any size.

- Sensor Type: Infrared
- Senses All CFC, HCFC, HFC and HFO Refrigerants
- Sensitivity Modes: High and Low (Auto Zero)
- Manual zero capability
- Audible and Visual Leak Indication
- Regulations: CE, EN14624, EN61010, SAE2913
- Rechargeable Li-Ion Battery
- · Sensitivity will not degrade over time
- USB micro charging port (cable included)
- Includes one (1) spare filter
- Includes carrying case
- Two year over-the-counter warranty
- Made in the USA



Specifications

- Minimum Sensitivity: 0.1 oz/ yr. (3 g/yr.)
- Body Material: ABS
- Body Length: 8.25" (210 mm)
- Probe Length: 17" (430 mm)
- Weight: 0.84 lb. (0.38 kg)
- Calibration: Automatic
- Response Time: Instantaneous
- Battery Life: 8 hours
- Fast Charge Time: 3 hours
- Holds Charge When Not In Use: 9 months (app.)
- Operating Temperature Range:
 - -4°F to 140°F (-20°C to 60°C)

|--|

69320 AccuProbe IR™ Leak Detector

Accessories and Parts

69321 Replacement Filters (5 pack) 69322 Replacement Battery Pack

Use the solid electrolyte sensor or UV technology (or both at the same time) to detect the more current and difficult HFC refrigerants such as R-134a, R-404A, R-407 and R-410A, in addition to all HCFC (R-22) refrigerants including SNAP approved hydrocarbon and HFO refrigerants, all with minimal chance of false alarms.

ACCUPROBE™ UV LEAK DETECTOR



Our solid electrolyte sensor technology reduces heat and gives the sensor longer life than traditional heated anode or heated diode detectors.

3 UV lights fluoresce between 395 and 415 nanometers.

The Smart Alarm™ LED shows how big or small a leak is on a scale of one to nine:

- 1 to 3 less than 0.1 oz./yr.
- 4 to 6 0.1 to 0.5 oz./yr.
- 7 to 9 more than 0.5 oz./yr.

In addition to the Smart Alarm indicator, the AccuProbe UV features low, normal and high sensitivity levels with visual and audible signals.

- If there is no response from the flashing tip or beeping signal at the preset normal sensitivity in the general area of a suspected leak, select high sensitivity
- High sensitivity will detect even low levels that could be missed with other detection systems
- Use low sensitivity as you move the tip over more defined areas of a system
- Long life, stable sensor

- Robust, ergonomic design is easy to use in close areas and extendable into hard-to-reach areas
- Instantaneous response time
- Clears in 12 seconds or less after exposure to a 1.75 oz (50g)/yr. leak
- · Automatic calibration and reset to ambient
- Low battery indicator
- Microcontroller technology
- SAE J2913 certified, CE marked, EN 14624
- 24-month limited warranty
- Made in the USA



Specifications

Sensitivity:

HFC (R-134a) 0.06 oz. (1.7g)/yr. HCFC (R-22) 0.03 oz. (0.9 g)/yr. HFO (1234yf) 0.15 oz. (4.3 g)/yr.

Heated solid electrolyte sensor: Over 300 hours service life with minimal cleaning and no adjustments

Maintenance required: None Body length: 10.5" (270 mm) Probe length: 17" (430 mm) Weight: 17 oz. (480 g)

Warm up time: 20 seconds or less

Calibration: Automatic
Response time: Instantaneous
Power: 4 AA alkaline batteries,
4.5 hours continuous life

Operating temperature range: 24° to 125°F (-4° to 52°C)

Storage temperature range: -4° to 122°F (-20° to 50°C) Humidity: 0 to 95% RH

non-condensing

Approvals: SAE J2913

CE marked, EN 14624

UPC#	Description
69336	AccuProbe UV
69337	AccuProbe UV with global power supply (US, EU, UK, AU, NZ)
69338	AccuProbe UV - Japan

03330	ACCUPROBE OV - Japan
Access	sories and Parts
69375	A/C Adapter - global power supply (US, EU, UK, AU, NZ) CE and GS approved
69383	Kit – sensor, filters and bottle
69384	Replacement sensor and filter
69385	Sensor filters (5 pak)
69386	Leak sensor bottle
69387	Carrying case with inserts
69388	Battery cover/screw (AccuProbe UV)

AccuProbe™ II LEAK DETECTOR



Low, normal and high sensitivity levels with audible signals to quickly and easily pinpoint leaks.



Specifications

Sensitivity: HFC (R-134a) 0.06 oz. (1.7 g)/yr. HCFC (R-22) 0.03 oz. (0.9 g)/yr. HFO (1234yf) 0.15 oz. (4.3 g)/yr.

Sensor life: Over 300 hours service life with minimal cleaning and no adjustments

Probe length: 17" Weight: 15 oz. Warm up time: 20 seconds or less Power: 4 AA alkaline batteries, 4.5 hours continuous life Approvals: SAE J2913 CE marked, EN 14624

UPC#	Description
69354	AccuProbe II leak detector
69383	Kit – sensor, filter and bottle
69384	Replacement sensor and filter
69385	Sensor filters (5 pak)
69386	Leak sensor bottle
69387	Carrying case with inserts
69361	Zipper pouch

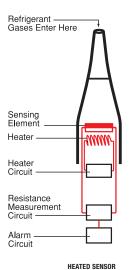
Tips for Detecting System Leaks with Leak Detector:

- Inspect entire A/C system for signs of oil leakage, corrosion cracks or other damage. Follow the system in a continuous path so no potential leaks are missed.
- Make sure there is enough refrigerant in the system (about 15% of system capacity or 50 psi min.) to generate pressure to detect leaks.
- 3. Check all service access port fittings. Check seals in caps.
- 4. Move detector probe at 1" per second within 1/4" of suspected leak area.
- 5. Refrigerant is heavier than air so position probe below test point.
- 6. Minimize air movement in area to make it easier to pinpoint the leak.
- Verify an apparent leak by blowing air into suspected leak to clean the area and see if the leak remains.
- 8. When checking for evaporator leaks, check for gas in condensate drain tube.

ELECTROLYTE SENSOR

Electrolyte Sensor Leak Detectors

When the electrolyte sensing element is exposed to refrigerant, an electrochemical reaction changes the electrical resistance within the element, causing an alarm. The sensor is refrigerant specific with superior sensitivity to all HFCs and HCFCs, and minimal chance of false alarms. When exposed to large amounts of refrigerant, which could poison other systems, the electrolyte sensor clears quickly and does not need recalibration before reuse.



${ m H_2}$ **DETECTOR** Detects 5% ${ m H_2}$ in 95% Nitrogen Tracer Gas



Many countries are now adopting laws that ban the use of refrigerants for system testing. The YELLOW JACKET $\rm H_2$ was developed for the $\rm H_2$ (95% nitrogen and 5% hydrogen) tracer gas mixture.

When used with the H₂/nitrogen tracer gas mixture, the YELLOW JACKET H₂ will detect leak rates less than 5 ppm.

- · Long life, stable sensor
- Does not require rechargeable batteries
- Automatic calibration and reset to ambient
- Three adjustable sensitivity levels
- Low battery indicator
- CE Certified
- True mechanical pump
- Two-year warranty
- Made in the USA



Specifications

Sensitivity: Less than 5 ppm Sensor life: Over 300 hours Response Time: Instantaneous Probe length: 17" Weight: 1.5 lbs. Warm up time: 20 seconds or less Power: 4 AA alkaline batteries, 8 hours continuous life Approvals: EN35422 and EN14624

UPC#	Description
69341	H2 leak detector
69342	Replacement sensor
69343	Carrying case with inserts (grey)

MICRO LED UV LEAK DETECTION KITS AND LAMPS For all A/C systems and lamps



Individual reflectors surround each of five LEDs recessed for protection in the stainless steel head.

- Long life LEDs
- · Constant ON switch
- Sealing locks out moisture
- AA Alkaline battery included (dispose of batteries via disposal practices in your area)
- Aluminum body

UPC#	Description
69782	395-415 nm wavelength UV LED flashlight
69788*	Micro UV LED and dye kit for auto
69789*	Micro UV LED and dye kit for AC/R
69793	Replacement pouch for LED (for older style with black casing)
69794	Lithium battery (2 pak) (for older style with black casing)

* Not for direct injection into R-410A systems due to high pressure. Bulbs not replaceable.

LARGE SYSTEM INJECTORS

Systems with up to 32 gallons of lubricant



Self-contained injection system for inducing up to 16 oz. of universal AC/R dye into the largest systems. Add to the lo-side. Easily works on all system pressures to 300 psi, .35 oz. per stroke. Hose included with SealRight end.

- Recommended for R-410A
- Made in the USA



UPC# [Description
69555 L	Large system injector
77950 L	Large system injector with coupler

CALIBRATED A/C SCREW INJECTION



This 2 oz. injector is easy to refill and easy to operate. Calibrations are clearly marked on the injector. Connect to A/C lo-side and rotate handle. AC/R and auto models. Maximum port pressure of 250 psi. MADE IN THE USA

UPC#	Description
69729	Universal screw injector (no hose)
69730	1/4" Calibrated A/C screw injector (with hose)
69731	Auto R-134a calibrated A/C screw injector with service coupler
69732	Auto R-134a calibrated A/C screw injector without service coupler
69723	1/4" replacement hose
69724	R-134a replacement hose
-	69729 69730 69731 69732 69723

UNIVERSAL A/C DYE INJECTORS AND HOSE



US Patent # 6,164,348

Universal A/C dye injectors work in AC/R and auto A/C systems. Four 1/4 oz. applications of dye in each disposable tube make it economical, fast and clean. Hose features back flow check valve.

- Maximum system port pressure of 80 psi
- Not for direct injection into R-410A systems due to high pressure
- Made in the USA



	UPC#	Description
	69702	Hose plus 2 injectors for AC/R
	69703	Auto R-134a hose, coupling and injectors
	69705	Injector hose with SealRight
3	69706	Auto R-134a injector hose and service coupler

DYE AND OIL INJECTORS



Body and cap are rugged aluminum with an "O" ring seal. 1/4" Male fitting at one end with Schrader. A ball valve for control on other end with a short length of hose. Valve depressor in 1/4" Female end. 600 psi working pressure.

Saves time on many applications:

- Add oil to system
- · Put oil in after changeout
- · Add scanner fluorescent solution
- · Add additives to system
- · Refrigerant sampling
- Recommended for R-410A
- Made in the USA



UPC#	Description
69559	1/4 oz. Oil injector
69560	1/2 oz. Oil injector
69561	2 oz. Oil injector
69562	4 oz. Oil injector
69563	"O" ring 1/4 and 1/2 oz. injector (5 pak)
69564	"O" ring 2 and 4 oz. injector (5 pak)
69722	Replacement hose

UNIVERSAL A/C DISPOSABLE INJECTORS

Universal disposable 1 oz. applicator for fast economical dispensing. Universal dye for all common refrigerants and oils. Two 1/2 oz. applications for regular split systems or four 1/4 oz. applications for small appliances or auto A/C.



- Less costly and faster than many other methods
- · One dye minimizes inventory
- No back-up refrigerant to move dye into system
- · Maximum system port pressure
- · Not for direct injection into R-410A systems due to high pressure
- Made in the USA



Easy to use: connect to system, push in plunger, then disconnect

UPC#	Description
69700	1 oz. (30 ml) Injector (6 pak) (12 residential applications/case)
69721	1 oz. (30 ml) Injector (2 pak) (4 residential applications/package)
69727	1 oz. (30 ml) Injector

UNIVERSAL A/C DYE SOLUTIONS



Universal dye for A/C systems with mineral, alkyl benzene or polyol ester lubricants.

- Field proven and sold worldwide
- Passed thermal stability tests
- One dye for AC/R systems
- Raw material QC assures dye uniformity
- Made in the USA



UPC#	Description
69711	1/4 oz. (7.5 ml) Universal A/C (24 pak)
69708	1/2 oz. (15 ml) Universal A/C (12 pak)
69709	1 oz. (30 ml) Universal A/C (6 pak)
69710	2 oz. (60 ml) Universal A/C (6 pak)
69712	8 oz. (240 ml) Universal A/C
69713	8 oz. (240 ml) Universal A/C (6 pak)
69803	1 gal. (3.78 L) Universal A/C

Oil/fluid and coolant dyes available on page 87.

FLUORESCENT SCANNER SOLUTIONS

Technology to match refrigerant and system volume



Different concentrations of fluorescent solutions are available to match the refrigerant volume in a system.

- Operating temperature is -40°F for all solutions
- When working on split systems, use solution 3 even if system has 10 lbs. or less of gas
- Made in the USA



Self-Infusing Injector Tubes			
Solution Concern	System with Gas Size	Ester Oil System P/N	
1 (0.5 oz.)	3 to 4.9 lbs.	69621 - 6 Pak	
2 (0.5 oz.)	5 to 9.9 lbs.	69622 - 6 Pak	
3 (0.5 oz.)*	10 to 25 lbs.	69623 - 6 Pak	

* Use on all split systems

- 1 Systems with 3 to 4.9 lbs. gas
 - 2 Systems with 5 to 9.9 lbs. gas
 - 3 Systems with 10 to 25 lbs. gas

DYE APPLICATION AMOUNTS

Application

Small appliance A/C or refrigerant systems Larger systems

System size in lbs. of refrigerant

Up to 4.9 lbs. (2.22 kg) Up to 25 lbs. (11.34 kg) Above 25 lbs. (11.34 kg)

Universal dye amount

0.25 oz. (7.5 ml) 0.5 oz. (15 ml) 0.5 oz. (15 ml) per gallon of oil

Not recommended for systems with internal temperatures below -40°F. Compatible with mineral, alkylbenzene, ester and PAG oil systems.



FLUORESCENT SOLUTIONS

For non-refrigerant applications



The oil and fluid dve solution is for finding leaks in oilbased applications. Use 1 oz. per 2 gallons of oil.

- · Pin point leaks in milling machines and hydraulic systems such as cherry pickers
- · Find seal and gasket leaks in engines, compressors and transmissions
- Locate leaks in gasoline or diesel fuel equipment, offset printing presses, injection-molding machines, locomotive engine oil coolers and oil-cooled chillers
- Made in the USA



UPC#	Description
69733	1 oz. (30 ml) Oil and fluid dye (6 pak)
69734	1 oz. (30 ml) Oil and fluid dye (24 pak)
69735	8 oz. (240 ml) Oil and fluid dye

YELLOW JACKET solutions meet or exceed applicable **ASHRAE** and ANSI tests and SAE standard J2297 for R-134a UV leak detection.

COMBUSTIBLE GAS DETECTOR With ultra-sensitive, long life sensor



Detects all hydrocarbon and other combustible gases including propane, methane, butane, industrial solvents and more.

Unit is preset at normal sensitivity, but you can switch to high or low. Slow beeping indicates that unit is warmed up. Frequency increases when a leak is detected until an alarm sounds when moving into high gas concentration. The Smart Alarm™ LED indicates leak size.

If no leak is detected in a suspected area, select high sensitivity. This will detect even low levels in the area. Move the tip over more defined areas, and you will be alerted when the tip encounters the concentration at the leak source.

- Ultra-sensitive sensor detects less than 15 ppm methane and better than 12 ppm for propane. Performs equally well on a complete list of detectable gases including acetylene, butane and isobutane
- · Automatic calibration and zeroing
- Sensor replacable after full service life
- Smart Alarm LED shows how big or small a leak is on a scale of one to 9.
- 24-month limited warranty (12-month warranty on sensor)
- Made in USA

CLEANERS



Scan-off UV Cleaner

Water-based biodegradable spray cleans scanner solution from system.

Natural Degreaser

Heavy duty biodegradable degreaser removes scanner solution from system.

Hand Cleaner

Cleans solution from hands.

UPC#	Description
69698	19 oz. Natural degreaser #01020
69699	16 oz. Hand cleaner
69696	8 oz. Scan-off solution
69697	8 oz. Scan-off solution (12 pak)

APPLICATIONS:

- Internal gas lines/pipes
- Propane filling stations
- · Gas heaters
- Combustion appliances
- Hydrocarbon refrigerant
- Heat exchangers
- Marine bilges
- Manholes
- Air quality • Arson residue (accelerants)

Specifications

Warm up time: 25 seconds

Power battery: 4 AA alkaline batteries,

20 hours continuous life Probe length: 17" (43.17 cm) Sensor life: 500 hours Body length: 10.5" (26.67 cm) Weight: 16 oz. (0.45kg)

Operating temperature range: 32° to 110°F

(0° to 43°C)

UPC#	Description
69371	Replacement sensor
69372	Replacement sensor cover
69373	Combustible gas detector with case
69387	Carrying case – blow molded
69379	Battery cover and screw (2003-2011)





Easy to Use • Reliable • Accurate



6 Parameters Displayed

COMBUSTION ANALYZER NEW!

3 m 1

Ambient CO Monitor, Manometer and Analyzer All One Instrument

- Two gas sensors for 02 and CO, high CO protection
- C02, combustion efficiency, excess air, ambient CO monitor
- Flue gas CO detector, displaying PPM to alert CO poisoning hazard
- CO over-limit sensing provides sensor longevity
- Field-replaceable sensors
- Built-in dual pressure manometer and optional manometer tube accessory to monitor system and flue pressures
- 15 pre-programmed fuels and internal data storage
- Six simultaneous readings on backlit display
- Compact and lightweight with a magnetic protective holster
- 7" duct probe with adjustable depth stop for easy access
 - Inline condensate trap and soot filter for easy cleanup
- YELLOW JACKET® YJ Combustion App
- Automatic generation of QR Code to download analyses for records
- · Long-lasting, rechargeable battery
- · Protective hard carrying case
- Wireless printer option (included in CA502P P/N 68602)
- Ideal for high-efficiency condensing HVAC systems
- One-year warranty

UPC#	Description
68601	Combustion Analyzer CA502
68602	Combustion Analyzer CA502P with Printer
68611	Combustion Analyzer Printer
68612	Combustion Analyzer Filters 5-Pak

COMBUSTIBLE GAS LEAK DETECTOR





Quickly Detect Gas Leaks in Hard-to-Reach Places

 Detects combustible hydrocarbon gases (i.e. natural gases, LPG) with rapid response time

Displays readings in PPM, % Vol, % LEL

- Auto-zero drift adjustment
- Audible and visible alarms
- Flexible 11" gooseneck probe
- Field replaceable sensors
- Protective hard carrying case
- One-year warranty

UPC#	Description
69310	Combustible Gas Leak Detector

VALVES & PARTS

7. WIRELESS AND **INSTRUMENTS**

SUPERHEAT CALCULATION KIT



Easily take an internal temperature reading for calculating system superheat.

- Read from -58° to 302°F (-50° to 150°C)
- °F/°C switchable
- Extract Schrader cores without opening system
- · Remove broken Schrader cores
- · Chase damaged threads
- Replace cores
- · Use as vacuum valve to increase flow and reduce vacuum and charging time
- Use to reduce recovery time
- Made in the USA





Accessory set 18980.

UPC#	Description
69103	Superheat kit without accessory kit
69104	Complete superheat kit and accessories (as shown)
69106	Digital thermometer and nut - 40° to 230°F
69107	Pocket thermometer (made in China)
18975	Improved vacuum/charge valve
18978	Schrader rethreading accessory
18979	Broken Schrader remover accessory
18980	Accessory set - 2 piece
18997	Grappler rod and nut assembly

SLING PSYCHROMETER

Measures wet and dry bulb temperatures of surrounding air for immediate conversion of readings to relative humidity percentage.

- One piece unit in self-contained housing fits into your pocket
- · Calibrated and easy-to-read
- "Slide rule" scale built into case
- · Accurate to 1 percent of "Hygrometric Tables"



UPC#	Description
69010	Sling psychrometer
69011	Replacement wicks (5 pak)
69015	Replacement thermometer

WATER-TYPE MANOMETER

Economical plastic tube manometer helps you set manifold pressure for natural or L.P. gas. Goes to -2" W.C. for newer systems.

- Strong magnet on manometer holds it in convenient upright position
- Includes tubing with fitting
- Made in the USA



HEAT PUMP KIT 5/16"





Complete Kit for Fast, Safe Heat Pump Installations and Service.

The YELLOW JACKET® Heat Pump Kit is developed specifically for R410A/R32 Mini-Split Systems with a single 5/16" SAE access point. This kit allows the service technician to quickly and safely install and service heat pumps with minimal refrigerant loss. Featuring a 3 1/8" (80 mm) heavy duty gauge and hose set designed for 800 psi, it can read pressure whether the heat pump is in heating, cooling or transition. The Heat Pump Kit includes a thermometer, core removal tool, OMNI™ digital vacuum gauge and eccentric cone flaring tool. The rugged carrying case keeps all tools organized and protected.

UPC #	Description		
61040	Heat Pump 5/16"		
Replace	Replacement Parts		
40346	Heat Pump Single Valve Manifold R-410A/R-32 °F and °C		
49142	Replacement Gauge R-410A/R-32 °F and °C		
29491	Heavy Duty 12" Hose with 1/4" x 5/16" Ball Valve		
15024	Heavy Duty 24" Hose with 1/4" x 1/4" 45° Black		
18985	5/16" Core Removal Tool		
69239	Digi-Alarm Thermometer		
60295	Eccentric Cone Flaring Tool		
69021	OMNI™ Digital Vacuum Gauge with 5/16" Coupler		
61045	Carrying Case		

DIGITAL PSYCHROMETER



Quickly measure humidity, dry bulb, dew point and wet bulb. No need to whirl a meter or refer to a chart for results.

- °F/°C switchable
- Data hold
- Auto power off
- · Display relative humidity and temperature simultaneously
- Response time of 60 seconds to changes in humidity

Specifications

Temperature range: -4° to 122°F (-20° to 50°C)

Resolution: 0.1°F/°C, 0.1% RH

Operating temperature range: 4° to 122°F

(-20° to 50°C) 0-100% RH

Power: 2 AAA batteries

Dimensions: 7" x 1-7/8" x 1"

(178 mm x 48 mm x 25 mm)

Weight: 2.65 oz. (75 g)

Accuracy: Relative humidity functions

(± 3% RH at 25°C)

Temperature ± 1°F (0.6°C)

Sensors: Temperature: thermistor bead Humidity: polymer film (capacitance)

Update rate: 2-6 seconds depending on function

UPC#	Description
69008	Digital psychrometer

FUEL OIL TEST KIT



Determine pump efficiency, cut-off and suction, as well as analyze or troubleshoot burner efficiency.

Kit includes 2" gauge, 30" 0-150 lb. scale and 12" hose with fittings.



UPC#	Description
78020	Complete fuel oil gauge kit
78021	2" Fuel oil gauge only
78023	Carrying case
78011	12" Hose – no valve opener
78024	Fitting set (4 pak)
78025	Adapter for 1/8" NPT
78031	2-1/2" Gauge, scale 30", 0-150 lbs.
78032	2-1/2" Gauge, scale 30", 0-300 lbs.

All gauges are 1/8" NPT.

OIL PUMP VIBRATION ELIMINATOR



Reinforced rubber hose helps eliminate noise and vibration when installed in a heating system.

- 1250 psi (86 bar) minimum burst, 250 psi (17 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Made in the USA



UPC#	Length	Description
78012	12"	3/8" Male flare x 1/4" NPT
		Male oil burner connector

ADAPTER CORD -TEST CONNECTOR

A 12" lead using number 14-3 wire and Female plug one end. Three large clips other end with red, black and green insulators. 120/240V - AC.



UPC#	Maximum amps	Clip size
69522	15 Amp	Large

GAS PRESSURE TEST KIT



Easier to use than a manometer, this compact kit helps you accurately set manifold pressure for natural or L.P. gas.

- Sensitive diaphragm gauge calibrated in inches of water column and ounces per square inch
- Improved lamination strength of diaphragm (bellows) to brass plate withstands higher over-pressure
- Tube nipple for easy connection to system manifold
- Two gauge ranges available
- Made in the USA



Original Improved Double bellows Single bellows

The unique single bellows on brass plate design replaces the double bellows for a stronger seal that better resists over-pressure.

UPC#	Description
78055	Complete test kit – 0-10" W.C.
78056	Barb-fitting gauge – 0-10" W.C.
78057	1/4" NPT Male gauge – 0-10" W.C.
78060	Complete test kit – 0-35" W.C.
78061	Barb-fitting gauge – 0-35" W.C.
78066	1/4" NPT Male gauge – 0-35" W.C.
78062	Hose with nipple
78064	Brass barb-fitting
78065	Rubber nipple
78059	Gauge crystal
78063	Carrying case

2" GAS TEST GAUGE 1/2", 3/4" and 1" pipe



Easy-to-read gauge to test system pressure for leaks in new installations. Pressure drop indicates leakage. 0-30 gauge is in 1/4 lb. increments and 0-15 gauge is in 1/5 lb. increments. Brass threaded bell for leak tight connection.

UPC#	Description
78076	2" Test unit 0-15 lb. gauge 1/2" pipe
78077	2" Test unit 0-15 lb. gauge 3/4" pipe
78080	2" Test unit 0-30 lb. gauge 3/4" pipe
78087	2" Test unit 0-60 lb. gauge 3/4" pipe
78090	2" Test unit 0-100 lb. gauge 3/4" pipe
78091	Gauge 1/4" NPT Male 0-100 lb.
78079	2" Test unit 0-15 lb. gauge 1" pipe
78085	2" Test unit 0-30 lb. gauge 1" pipe
78095	2" Test unit 0-100 lb. gauge 1" pipe
78096	Schrader fitting 1/8" NPT Male x tire fitting (0.305" - 32)

3-1/2" GAS TEST GAUGE 3/4" and 1" pipe



Larger 3-1/2" gauges are easier to read. Scale in psi and bar. Brass threaded bell for leak tight connection.

UPC#	Description
78084	3-1/2" Test unit 0-30 3/4" pipe
78086	3-1/2" Test unit 0-100 3/4" pipe
78088	3-1/2" Test unit 0-30 1" pipe
78089	3-1/2" Test unit 0-100 1" pipe
49422	Gauge only 3-1/2" test unit 0-60 psi
49421	Gauge only 3-1/2" test unit 0-30 psi
49424	Gauge only 3-1/2" test unit 0-100 psi

SYSTEM TOOLS





Deluxe 45° Flaring Tool

A full range 1/8" to 3/4" O.D. flaring tool for soft copper



DELUXE 45° FLARING TOOL

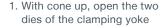


- Designed with the new R-410A system requirements in mind
- Self-centering yoke grips without marring or constricting tube
- Automatic tube height gauge for correct tubing height
- Multi-faceted burnishing cone produces a burnished flare seat for a positive seal
- Easy-to-use with four basic steps
- Made in the USA



Note: To improve grip on copper, all moving parts including the wing nut threads, wing nut mating threads and feed screw threads must be oiled regularly. Failure to do so may result in tubing slippage, undersize flares and damage to the tool.







 Select sizes on underside of dies to match tubing



3. Insert tubing until it touches the height gauge

start of 45° burnished flare

4. Turn the feed screw to flare the tubing

UPC#	Description
60278	Deluxe flaring tool for 1/8" to 3/4" O.D.
60214	Replacement wing nut
60268	Replacement grip
60269	Wing nut and bolt
60273	Burnishing cone and pin
60274	Yoke assembly

R-410A Flare Diameters

- Installation instructions for systems using R-410A vary between manufacturers with respect to 45° flares. Some require the larger flares produced by the Deluxe 45° Flaring Tool (60278) while others prefer the rolled flare produced by the eccentric cone flaring tool
- Instead of the standard 1/4" (7/16-20 thread, 1/4" O.D.) fitting for air conditioning systems, some manufacturers are moving to 5/16" (1/2-20 thread, 5/16" O.D.) to differentiate fittings and avoid misconnections. These fittings can often be found on mini split systems

Maximum Diameter of Flare Cone (Average)

Flare size	SAE spec produced by most flaring tools	Some R-410A mfgr. specs produced by 60278
1/8"	0.181"	*
3/16"	0.248"	*
1/4"	0.327"	0.358"
5/16"	0.406"	*
3/8"	0.488"	0.520"
1/2"	0.622"	0.654"
5/8"	0.748"	0.776"
3/4"	0.917"	0.945"

* These tube sizes are not used by some R-410A equipment manufacturers. The Deluxe Flaring Tool 60278 adopts the SAE standard for these sizes.

ECCENTRIC CONE FLARING TOOL WITH FLARE SIZING GAUGE



Off-center hardened steel cone with 45° flare produces a rolling action for uniform flare walls without galling in 3/16" to 3/4" O.D. tubing.

- Large feed screw handle for smooth turning with little effort
- Black oxide-finished steel flaring bars are heat-treated for durability and secure grip on tubing
- Recommended for soft materials such as copper and aluminum
- Built-in clutch release to prevent over-torquing

UPC#	Description
60295	Eccentric Cone Flaring Tool with Flare Sizing Gauge

INSTRUMENTS

45° FLARING TOOLS 3/16" to 1-1/8"



- 60210 heavy-duty is designed for tight spaces
 60220 heavy duty.
- 60230 heavy-duty flares on tubing up to 3/4"
- 60290 large is designed to flare on tubing up to 1-1/8"
- Hardened steel flaring bar to resist tube slippage
- Forged steel yoke that slips over bar and locks with a turn
- Precision threaded feed screw and long handle
- Chrome finish



UPC#	Description
60210	Heavy-duty flaring tool for 3/16," 1/4," 5/16," 3/8," 7/16," 1/2," 5/8" O.D.
60212	Flaring bar only for 60210
60230	Heavy-duty flaring tool for 1/2," 5/8," 3/4" O.D.
60232	Flaring bar only for 60230
60213	Yoke for 60210 up to 5/8" flare
60214	Wing nut
60233	Yoke for 60230 up to 3/4" flare
60290	Large flaring tool for 3/4, 7/8, 1, 1-1/8 O.D.
60293	Flaring yoke for 60290
60292	Flaring bar for 60200

The only replaceable parts are those listed above.

FLARE/BURNISH TOOL



Multi-faceted cone rolls a precise flare and simultaneously burnishes it on brass, copper and aluminum.

UPC#	Description
60270	Flare/burnish tool for 3/16" to 5/8" O.D.
60271	Flare yoke only for 60270
60272	Flaring bar for 60270

The only replaceable parts are those listed above

UNIVERSAL 45° FLARE/BURNISH TOOL



Universal designed bar will hold all inch and metric size tubing up to 5/8" (16 mm).

- Flare bar is compact and easy to use in tight spaces
- Multi-faceted cone rolls out precise 45° flare and burnishes simultaneously
- Flare is formed above flare bar

UPC#	Description
60275	Universal flaring tool for 3/16" to 5/8" O.D.
60276	Flaring bar only for 60275
60277	Flaring yoke only for 60275

The only replaceable parts are those listed above.

LIGHTWEIGHT SWAGE/FLARE KIT



The aluminum body and bar makes this half the weight of traditional steel designs.

- Six quick-change positions for flaring soft copper and aluminum tube
- The chrome finish of the swaging pin allows for an easy flare operation
- Strong aluminum bars each hole flare tested more than 1000 times.
- Swage pin sizes are molded into the case for easy organization
- Quick connect on yoke saves time during pin/cone changing
- Built-in slide gauge to easily meet desired flare sizes without the guesswork.
- One yoke for both flaring and swaging
- Blow-molded carrying case included

UPC#	Kit Swaging/Flaring Sizes
60430	Inches: 6 positions for 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. tube
60431	Inches: 6 positions for 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. tube
	Metric: 6 positions for 6, 8, 10, 12, 16 and 18 MM O.D. tube; hex wrench included
UPC#	Replacement Parts
60428	Replacement case for 60430/60431
60432	Lightweight 60430/60431 bar, inch
60433	Lightweight 60431 bar, metric
60434	Replacement yoke for 60430/60431
60435	6 mm swage pin for 60431
60436	8 mm swage pin for 60431
60471	10 mm swage pin for 60431
60437	12 mm swage pin for 60431
60438	16 mm swage pin for 60431
60451	18 mm swage pin for 60431
60452	Flaring cone for 60430/60431
60472	1/4" swage pin for 60430
60473	5/16" swage pin for 60430
60474	3/8" swage pin for 60430
60477	1/2" swage pin for 60430
60478	5/8" swage pin for 60430
60479	3/4" swage pin for 60430

SWAGING AND 45° FLARING TOOL 3/4" to 1-1/8" 0.D.



60455 large-size swages and flares for 3/4", 7/8" and 1-1/8" O.D. tubing

UPC#	Description	
60446	1/2" Swage adapter	
60447	5/8" Swage adapter	
60448	3/4" Swage adapter	
60449	Flare cone 1/2" to 3/4"	
60443	Complete yoke for 60440/60453	
60232	Flare bar 1/2" to 3/4" O.D.	
60448	3/4" Swage adapter	
60455	Large swage/flare kit complete 3/4" to 1-1/8" O.D.	
60457	7/8" Swage adapter	
60458	1-1/8" Swage adapter	
60459	Flare cone 3/4" to 1-1/8"	
60456	Complete yoke for 60455	
60292	Flare bar 3/4" to 1-1/8" O.D.	
60441	Handle screw assembly	
60442	"C" clip and nut	

SWAGING AND 45° FLARING TOOL 3/16" to 3/4" O.D.



This combination tool both flares and swages soft or annealed copper and similar materials.

- Six hardened and plated alloy steel adapters are interchangeable to convert sizes and functions
- Slip-on self-centering steel yoke has a feed screw with extra long handle
- · Deeply knurled adapters
- Flaring bars are hardened and chrome plated for durability
- Kit comes complete with six swage adapters, flaring cone, two flaring bars, yoke and a deluxe case

9	MADE IN

UPC#	Description
60440	Swage/flare kit complete for 3/16" to 3/4" O.D.
60450	Case only
60451	Case insert only
60444	3/16" and 3/8" Adapter
60439	1/4" Adapter
60445	5/16" Adapter
60446	1/2" Swage adapter
60447	5/8" Swage adapter
60448	3/4" Swage adapter
60449	Flare cone for 3/8" to 3/4" - 45° adapter
60442	"C" clip and nut
60441	Handle/feed screw
60443	Complete yoke 60440/60453
60212	Flare bar for 3/16" to 5/8" O.D.
60232	Flare bar for 1/2" to 3/4" O.D.

FLARING/CUTTING KITS



A wide variety of heavy-duty tool kits for flaring 3/16" to 3/4" O. D.

60260



60240

UPC#	Description
60240	Full range 45° flaring kit for 3/16" to 3/4" O.D. with yoke, two bars, case, instructions
60230	45° Flaring tool only for 1/2" to 3/4" O.D.
60250	45° Flaring/cutting kit for 3/16" to 5/8" O.D. with 60210 flaring tool, 60101 cutter, case, instructions
60260	Full range 45° flaring/cutting kit for 3/16" to 3/4" O.D. same as 60240 with 60101 cutter, case, instructions

ELECTRIC/MANUAL LIGHTWEIGHT FLARING TOOL



UPC#	Kit Flaring Sizes
60241	Inches: 6 positions for 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. tube
60242	Metric: 6 positions for 6, 8, 10, 12, 16 and 18 MM O.D. tube
UPC#	Replacement Parts
60433	Lightweight 60431 bar, metric
60434	Replacement yoke for 60430/60431
60243	Replacement side handle for 60241/60242

For super fast flaring, remove the top handle and replace with an electric drill bit

- For use with electric/power drill (with torque adjusted function only
- Handle included for manual flaring
- Side handle locks movement of the yoke assembly during flaring
- The hardened, polished eccentric cone of with 45° flare produces a rolling action for uniform flare walls without galling in 1/4" to 3/4" O.D. tubing
- Built-in clutch release to prevent over-torquing

9. HEATING INSTRUMENTS

TUBING EXPANDER/SWAGER For 5/16" to 1-5/8" O.D.





With long handles for comfortable leverage, easily expand 5/16" to 1-1/8" O.D. soft copper and aluminum tubing in seconds. Select from nine expander heads to attach to the front of the handles.

- Precise swaging on the job
- Re-round deformed tubes and fittings
- Salvage shorts and scrap to make couplings
- Handles, tapered expanding pin, and other moving surfaces heat treated for durability
- Use on 0.063" wall soft copper and aluminum to 1-5/8" O.D. (anneal hard copper prior to use)
- Use on 0.047" wall soft steel to 7/8" O.D.
- Kit includes six expander heads; three optional sizes sold separately



Sets in case		
UPC#	Description	
60407	Expander kit with handles; heads for 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" tubing O.D.; deburring tool, carrying case, instructions	
60412	Expander handles	
60405	Nut and bolt	
60410	Expander handle hinge bolt (9 mm)	
60411	Blue case	
60427	Steel roller	
60429	Drive pin	

Expander heads				
UPC#	Description	Maximum wall thickness	Swage depth	Segment stretch
60413*	5/16" Expander head	0.039"	0.24"	_
60414	3/8" Expander head	0.039"	0.35"	0.06"
60415	1/2" Expander head	0.047"	0.43"	0.06"
60416	5/8" Expander head	0.047"	0.57"	0.06"
60417	3/4" Expander head	0.047"	0.59"	0.06"
60418	7/8" Expander head	0.047"	0.71"	0.06"
60420	1-1/8" Expander head	0.063"	0.77"	0.90"
60422*	1-3/8" Expander head	0.063"	0.77"	0.90"
60424*	1-5/8" Expander head	0.063"	0.77"	0.90"
Outlined since and accountable				

^{*} Optional sizes sold separately.

PUNCH-TYPE SWAGING TOOL



- Expands one end of copper tubing for connecting same size tubes
- Heat-treated and plated alloy steel
- Made in the USA

60462 Clamping bar only

Swaging sets		
UPC#	Description	
60475	Set – 4 piece in pouch for 1/4", 3/8", 1/2" and 5/8"	
60476	Set – 5 piece in pouch for 1/4", 5/16", 3/8", 1/2" and 5/8"	
60461	Set with clamping bar and 6 punches 3/16" to 5/8"	



Single	gle tools	
UPC#	Description	
60460	Multi-swage punch, 6 sizes 3/16" to 5/8'	
60463	3/16" O.D. punch	
60464	1/4" O.D. punch	
60465	5/16" O.D. punch	
60466	3/8" O.D. punch	
60467	1/2" O.D. punch	
60468	5/8" O.D. punch	
60469	3/4" O.D. punch	
60470	7/8" O.D. punch	

HYDRAULIC TUBE EXPANDER KIT

- Hydraulic power
- · Eliminates fittings
- · Lightweight and portable
- Easy one-hand operation





UPC# Description 60493 Deluxe hydraulic expander kit: heads for 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8" and 1-5/8" tubing O.D.; small cutter, tube reamer, carrying case and instructions 60495 Replacement expander pin 3/8" to 1-5/8" 60498 Replacement case 60499 Replacement grease tube 60413-24 Replacement expander heads (see above)

ALLOY RATCHET HAND TUBE BENDER







UPC #	Replacement Parts	Bending Radius
63325	Deluxe Alloy Ratchet Tube Bender Kit (includes 63342 Reverse Bender)	Hadias
63331	Alloy Ratchet Tube Bender Kit	
63342	Reverse Bender for 63331	
63326	Alloy Bending Mandrel - 1/4"	1"
63327	Alloy Bending Mandrel - 5/16"	1-1/8"
63332	Alloy Bending Mandrel - 3/8"	1-1/4"
63333	Alloy Bending Mandrel - 1/2"	1-1/2"
63334	Alloy Bending Mandrel - 5/8"	1-1/2"
63335	Alloy Bending Mandrel - 3/4"	1-3/4"
63336	Alloy Bending Mandrel - 7/8"	2"
63329	Crossbar Assembly 3/4" to 7/8"	
63330	Crossbar Assembly 1/4" to 5/8"	
60328	Fillister Head Screw	
60348	Wing Nut and E-Clip	
63340	Ratchet Bar and Catch Bolt	
60343	Bender Body Housing	
N/A	Spiral Pins	
60344	Catch Pin and Spring	
60345	Catch Lever	
60346	Flat Spring	
60349	Tension Spring	
60347	Feed Lever	
63339	Ratchet Body Assembly	
63338	Plastic Carrying Case	
60101	Small Cutter for 1/8" to 1-1/8" OD	
60161	Tube Reamer - 1/16" to 1-3/8"	

 $^{^{\}star}$ Designates the call-out number for the parts diagram on the 60331 instruction chart.

FULL RANGE HEAVY DUTY TUBE BENDERS For 1/4" to 7/8" radius



Make fast bends on almost every size of soft copper, brass, aluminum, steel and soft stainless steel tubing to 180°.

60390 is a compact three-in-one bender for 1/4," 5/16" and 3/8" O.D. tubing. Calibrated markings for bends up to 180° help you duplicate angles.

UPC#	Bending radius	Description
60390	15/16"	1/4", 5/16", 3/8" 3-in-1 Tube bender
60373	9/16"	1/4" Tube bender
60374	11/16"	5/16" Tube bender
60375	15/16"	3/8" Tube bender
60377	1-1/2"	1/2" Tube bender
60378	2-1/4"	5/8" Tube bender
60379	3"	3/4" Tube bender
60380	3-1/4"	7/8" Tube bender

SPRING TUBE BENDER For 1/4" to 7/8"





Spring benders slip over soft copper and aluminum tubing during bending to help prevent tube collapse.

- Silver-plated finish
- Conforms to Fed. Spec. GGG-B-191-a Type IV

UPC#	Description
60354	1/4" O.D. bending spring
60355	5/16" O.D. bending spring
60356	3/8" O.D. bending spring
60357	7/16" O.D. bending spring
60358	1/2" O.D. bending spring
60359	5/8" O.D. bending spring
60360	3/4" O.D. bending spring
60361	7/8" O.D. bending spring
60351	Set-6 sizes-1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D.
60352	Set-4 sizes-1/4", 3/8", 1/2" and 5/8" O.D.
60353	Set-4 sizes-1/2", 5/8", 3/4" and 7/8" O.D.

9. HEATING INSTRUMENTS

DIGITAL ADJUSTABLE TORQUE WRENCH







FEATURES & BENEFITS

- Interchangeable heads
- Digital torque value readout
- +/- 2% accuracy
- · CW and CCW operation
- · Peak hold and track mode selectable
- Buzzer and LED indicator for 9 pre-set target torques
- Four user selectable units of measure (ft. lb., in. lb., N-m, kg-cm)
- 50 data memory for recall and joint torque auditing
- Auto sleep (after about five minutes idle)
- Water contact indicator
- Two AAA batteries included

P/N	Description
60624	Deluxe Digital Adjustable Torque Wrench (with 3/8" Drive Ratchet Head P/N 60632)
60648	Digital Adjustable Torque Wrench
60632	3/8" Drive Ratchet Head (included in 60624)
60647	Adjustable Wrench Head .20" to 1.18" (5-30 mm)
Optional Accessory	
60625	Adjustable Wrench Head .32" to 1.61" (8-41 mm)

Captures and Displays Torque Measurement in Real Time Mode to Provide Users with Unprecedented 1 Levels of Control and Accuracy



The YELLOW JACKET® Digital Adjustable Torque Wrench (P/N 60624 and 60648) has 9 common preset torque values, which display on the digital screen as the flare nut is tightened. For added assurance, indicator lights increase as the torque value is approached. With adjustable wrench heads, you can leave your other wrenches at home. The protective carrying case keeps it safe as you carry it from job site to job site.



SPECIFICATIONS

Digital Adjustable Torque Wrench P/N 60624 & 60648:

Guaranteed Accuracy Range: 12.5 - 62.7 ft. lb. (17 - 85 N-m)

150 - 752 in. lb. (173 - 867 kg-cm)

Accuracy: CW: ±2%; CCW: ±3%

Data Memory Size: 50 Pre-Sets: 9

LED Indicators: 6 (1 red, 5 green)

Operation Mode: Peak hold/track
Unit Selection: ft. lb., in. lb., N-m, kg-cm

Gear Teeth: 52

Head Open Size: .2 - 1.18 inches (5 - 30 mm)

Battery Type: Two AAA (non-rechargeable)

Operating Temperature: $14^{\circ}F \sim 140^{\circ}F (-10^{\circ}C \sim 60^{\circ}C)$ Storage Temperature: $4^{\circ}F \sim 158^{\circ}F (-20^{\circ}C \sim 70^{\circ}C)$ Humidity: Up to 90% non-condensing

Drop Test: 1 m Vibration Test: 10 g

Description	Length	Max Torque	Torque Measuring Range
3/8" Drive Ratchet Head	10.6"	62.7 ft. lb.	3.1-62.7 ft. lb.
	270 mm	85 N-m	4.2-85 N-m
Adjustable Wrench .20" to 1.18" (5-30 mm)	12.8"	49.0 ft. lb.	2.4-49.0 ft. lb.
	325 mm	66.5 N-m	3.3-66.5 N-m
Adjustable Wrench .32" to 1.61" (8-41 mm)	13.3"	47.0 ft. lb.	2.3-47 ft. lb.
	338 mm	63.75 N-m	3.2-64 N-m

PRECISION TORQUE WRENCH



Designed to accommodate the full range of ductless mini-split flare nut sizes and torque requirements.

Easier-to-use and more adjustable than other flare nut torque wrenches on the market.

Precision torque wrench for exact tightening to 10-80 N-M or 7.4-59 ft. lb.

- · Adjustable in Newton-meters and foot-pound.
- · Six interchangeable open end adapters.

60650 (6 Heads): Sizes: 17, 22, 24, 26, 27 & 29 mm 60652 (8 Heads): Sizes: 16, 17, 21, 22, 24, 26, 27 & 29 mm

- The N-M and foot-pound (FT-LB) scales are marked on the barrel of the wrench for easy and permanent reference.
- The micrometer-type sleeve is easy to read and allows accurate pre-set torque values to be set. When the set torque is reached, the wrench produces an audible click and a slight, safe release of tension to prevent over tightening.
- This product has been designed to be tough, durable and easy to use. It comes supplied in a blow-molded storage and carry case.
- Accurate within 4% when measured per BSEN 26789 & ISO 6789 & ASME BI07.14M & DIN3122 regardless of the open end adapter head used.



The N-M and foot-pound (FT-LB) scales are marked on the barrel of the wrench for easy and permanent reference.

UPC#	Description
60650	Torque wrench kit - 6 heads
60652	Torque wrench kit - 8 heads

SOLENOID VALVE SERVICE MAGNET

The YELLOW JACKET® Solenoid Valve Service Magnet is the quickest and easiest way to manually operate solenoid valves. It works by magnetically lifting the stem assembly and plunger to actuate the valve during service.

Test and Control

Use this solenoid service magnet to test, troubleshoot, or manually activate and control a direct connected or pilot operat-

ed 2-way solenoid, 3-way reclaim or 4-way reversing valve, typically found in a reverse cycle air conditioner or heat pump.



This magnet can also be used to hold a solenoid valve open during recovery and evacuation so the entire system can be accessed.

To optimize recovery, simply remove the solenoid coil from all normally closed valves – refrigerant control valves, hot gas defrost valves, reversing valves, etc. Then apply the YELLOW JACKET® solenoid magnet to each valve to speed up recovery and evacuation.

To help isolate solenoid valve issues, remove the coil from the valve and apply the YELLOW JACKET® solenoid magnet. If the valve actuates, an electrical or solenoid coil issue is indicated. If the valve actuates but there is no flow, this indicates a plugged valve. No actuation indicates the problem is in the valve body itself.





Solenoid Valve

4-Way Reversing Valve

Other Uses

- Use in place of the power head on a hot water oil shutoff valve to eliminate the need to wait for the delay on open
- Use it to temporarily replace a faulty coil to open the solenoid valve
- Use it to turn the power on or replace the solenoid if it is bad

Specifications

Opening: 0.75 in. (18 mm) fits most common

manufactured valves including reversing valves.

Diameter: 1.5 in. Length: 1.6 in.

UPC#	Description
61192	Solenoid Service Magnet

DELUXE MINI-SPLIT TOOL KIT



YELLOW JACKET® Deluxe Mini-Split Tool Kit 60994 for the most complete set of premium tools designed for the growing variety of mini-split brands and sizes.

- Designed for all mini-split refrigerants (R22/404A/410A)
- . Takes the guesswork out of finding the right tool for the job
- · Meets manufacturers' specifications on mini-split installations and repairs
- One-year warranty



Kit includes:

- TITAN 4-Valve Manifold: Designed for all mini-split refrigerants and pressures (including heating modes)
- 60" PLUS II™ Hoses: Rated for 4000 psi (276 bar) minimum burst and 800 psi (55 bar) maximum working pressure. (RYB) 1/4" with 1/4" compact ball valve x 1/4" flare fittings
- . Eccentric Cone Flare Tool with Flare Sizing Gauge Creates high quality flares for 3/16" to 3/4" O.D. tubing
- Hex Key Sets Imperial (12 sizes) and Metric (9 sizes)
- Two Vacuum/Charge Valves with Side Port 5/16" x 1/4" x 1/4" and 5/16" x 5/16" x 5/16"
- · Adjustable Digital Torque Wrench

Adjustable spanner head fits flare nut sizes .2" to 1.18" (5 to 30 mm), with a torque measuring range of 3.1 to 62.7 ft. lbs. (4.2 to 85 N-m) Adjustable Torque Wrench Head 10-41 mm

- Tube Cutter and Deburring Tool
- Mirror with telescopic head and pocket clip

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UPC #	Description	
60994	Deluxe Mini-Split Tool Kit with Digital Adjustable Torque Wrench	
Replacen	nent Parts	
18985	5/16" x 5/16" x 5/16" Vacuum/Charge Valve with Side Port	
18986	5/16" x 1/4" x 1/4" Vacuum/Charge Valve with Side Port	
19173	1/4" Male Flare x 5/16" Female Flare Adapter	
19305	10-Pack of Replacement Schrader Cores	
29985	3-pak 60" PLUS II™ RYB Hoses	
49963	TITAN 4-Valve Manifold	
60121	Tube Cutter, 1/4" to 7/8" Tube Diameter	
60163	Deburring Tool	
60295	Eccentric Cone Flare Tool with Flare Sizing Gauge (60297)	
60625	Adjustable Torque Wrench Head 10-41 mm	
60648	Digital Adjustable Torque Wrench	
60669	Imperial Hex Key Set - 12 sizes	
60670	Metric Hex Key Set - 9 sizes	
60990	Tool Bag 16"	
78098	1 1/4" Diameter Glass Mirror	
93891	60" Heavy Duty Hose, 3/8" x 5/16" Flare Fittings	

MINI-SPLIT TOOL KIT



The YELLOW JACKET® Mini-Split Tool Kit 60993 addresses many of the special requirements found in mini-split installation manuals

- · Designed for all mini-split refrigerants (R22/407C/410A)
- · Takes the guesswork out of finding the right tool for the job
- . Meets manufacturers' specifications on mini-split installations and repairs
- One-year warranty



Kit includes:

Heat Pump Manifold

Designed to handle all mini-split refrigerants and pressures (including heating modes)

60" PLUS II™ Hoses

Rated for 4000 psi (276 bar) minimum burst and 800 psi (55 bar) maximum working pressure. (RYB) 1/4" with 1/4" flare fittings

- . Eccentric Cone Flare Tool with Flare Sizing Gauge Creates high quality flares for 3/16" to 3/4" O.D. tubing
- · Hex Key Set

Mini-Split Hex Keys: 5/32", 3/16", 5 mm and 6 mm

- · Vacuum/Charge Valve with Side Port 5/16" x 1/4" x 1/4"
- · Adjustable Digital Torque Wrench

Adjustable spanner head fits flare nut sizes .2" to 1.18" (5 to 30 mm), with a torque measuring range of 3.1 to 62.7 ft. lbs. (4.2 to 85 N-m)

- Tube Cutter and Deburring Tool
- Tool Bag 16"

Durable nylon bag with strap - over 25 pockets

UPC #	Description
60993	Mini-Split Tool Kit with Digital Adjustable Torque Wrench
Replacen	nent Parts
18986	5/16" x 1/4" x 1/4" Vacuum/Charge Valve with Side Port
21985	3-pak 60" PLUS II™ RYB Hoses
41019	Heat Pump Manifold R-22/407C/410A
60101	Tube Cutter, 1/8" to 1-1/8" Tube Diameter
60163	Deburring Tool
60295	Eccentric Cone Flare Tool with Flare Sizing Gauge (60297)
60648	Digital Adjustable Torque Wrench
60749	Hex Key Set
60990	Tool Bag 16"

SERVICE WRENCHES





Standard reversible ratchet wrench with square openings: 1/4" and 3/16" at one end; 3/8" and 5/16" at other end.



Heavy-duty features a heavier handle and larger gear. Stronger gear teeth are combined with strong reversing mechanism for long service life.

Square opening 3/16" and 1/4" at one end; 3/8" and 5/16" at other end.



Knuckle saver design for convenience in tight areas. Square opening 1/4" and 3/16" one end; 3/8" and 5/16" at other.



Reversible wrench for larger service valves. 3/8" square one end; 1/2" square at other.



7" heavy-duty reversible ratchet wrench with hex openings 1/2" and 9/16" at one end; square 3/16" and 1/4" at other end.

Service wrenches		
UPC#	Description	
60613	Straight service wrench	
60618	Heavy-duty service wrench	
60616	Off-set service wrench	
60615	Refrigeration wrench for large valves	
60612	7" Heavy-duty wrench	
60003	60613 (50 pak)	
60006	60616 (50 pak)	
60008	60618 (42 pak)	

CAUTION: Do not use cheater bars.

SERVICE WRENCH AND ADAPTER

Combination service wrench and hex adapter for accessing liquid and suction based valves on residential and commercial units up to 7.5 tons. Heat-treated hex works for 3/16" and 5/16" hex valves. Black oxide plated. New adapter for some York and Coleman units.





UPC#	Description
60609	Hex key adapter
60610	60613 service wrench and 60609 adapter
60638	Shorter 3/16" and 5/16" hex key adapter

KNUCKLE-SAVER™ HEX WRENCH SETS

Three-piece or five-piece





The offset design saves knuckles in tight places.

- · Accurately sized and broached ends for correct fit
- · Heat-treated critical wear parts for long life
- Finger control reversing
- Chrome plated for durability
- · Made in the USA

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Description	Hex sizes
Set - 5 wrenches	1/4" to 7/8"
Set - 3 wrenches	1/4" to 9/16"
Ratchet wrench	1/4" x 5/16"
Ratchet wrench	3/8" x 7/16"
Ratchet wrench	1/2" x 9/16"
Ratchet wrench	5/8" x 11/16"
Ratchet wrench	3/4" x 7/8"
	Set - 5 wrenches Set - 3 wrenches Ratchet wrench Ratchet wrench Ratchet wrench Ratchet wrench

SPORLAN VALVE WRENCH





Spanner end tightens packing nut around super heat adjustment stem. 1/8" square end adjusts Sporlan solenoid valves with manual lift stems as on Series B6 and E6 through MA 50. Also 3/16" square at same end for expansion valves.

UPC#	Description
60617	Sporlan valve wrench

FLARE SIZING GAUGE NEW!

- · Lightweight and compact
- · Covers 6 common diameters of flares
- · Quick access to tube size and torque specifications

UI	PC#	Description
6	0297	Flare Sizing Gauge





INSTRUMENTS

60101

TUBE DEBURRING TOOL

For fast deburring, rotate blade.





UPC#	Description
60163	Deburring tool with spare blades
60164	Replacement blade for 60163
60165	Economy deburr for 60139 tube cutter
60166	Economy deburr for 60146 tube cutter

TUBE REAMER/BURR REMOVER

Steel blades remove inner and outer burrs.



UPC#	Description
60161	Tube reamer - 1/16" up to 1-3/8" O.D.

PREMIUM TUBE CUTTERS





Snare blade stored in handle

Enclosed precision feed mechanism for easy, smooth cutting.

- · Wide rollers with flare cut-off groove for convenience. Ground surface for easy rolling
- · Wheel retracts into cutter body to save 1" in cutting radius
- · Textured finish is easy to grip and hold
- · Alloy steel wheels have a sharper cutting wheel edge for less burr on copper, aluminum and mild steel tubing
- · Wheels are pinned to rotate in either direction without the screw backing out
- Corrosion-resistant finish on lightweight aluminum frame

- · Fold away steel reamer with turned cutting edge for deburring
- · Flare cut-off groove for quickly removing damaged flare
- · Small and large sizes available
- Conforms to Fed. Spec. GGG-C-771-d, 1-31, 64. Type II, Class 1.

CONSTRICTOR/CUTTER

Cutter modified with blunt wheel to roll down the tube O.D.



UPC#	Description
60101	Small cutter* for 1/8" to 1-1/8" O.D.
60102	Large cutter* for 1/4" to 1-5/8" O.D.
60103	Constrictor/cutter for 1/4" to 1-1/8" O.D.

Spare parts listed on page 104

HEAVY DUTY MINI-CUTTERS

Extended



Mini-cutters are compact yet easy to grip and feature large rollers and flare cut-off groove.

Mini-cutter 60121 for heavy-duty cutting from 1/4" to 7/8" O.D.

Small Mini 60160 cuts 1/8" to 5/8" with a turning radius of only 1-3/16".

Big Mini 60142 cuts from 1/4" to 1-1/8" O.D.



turning radius for 60160



UPC#	Description
60160	Small Mini for 1/8" to 5/8" O.D.
60121	Mini-cutter for 1/4" to 7/8" O.D.
60142	Big Mini for 1/4" to 1-1/8" O.D.

Spare parts listed on page 104



- "I beam" design uses aluminum alloy for both strength and light weight
- Wide body has long rollers to hold tubing and includes a flare cut-off groove
- Contoured handle for easy gripping also holds spare cutter wheel
- Separate deburr tool slides into cutter body

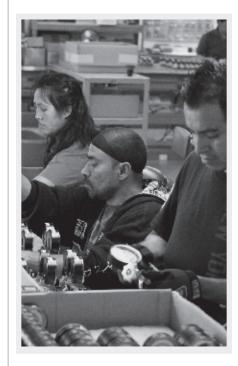
UPC#	Description
60139	Tube cutter for 3/8" to 2-5/8" O.D.
60146	Large tube cutter for 2" to 5-1/8" O.D.
60165	Replacement deburr tool for 60139
60166	Replacement deburr tool for 60146
60136	Individual/Retainer screw
60172	Handle screw for 60139
60173	Handle and screw for 60139
60174	Spring for 60139

CAPILLARY CUTTER



Cleanly cut capillary tubing without flattening or constricting tubing.

UPC#	Description
60195	Capillary cutter



PIPE CUTTER For black iron



Cuts black iron pipe more cleanly and quickly than other types of cutters. Cast iron body holds heat-treated steel cutter wheel.

- Fine pitch threads assure easy cuts on black pipe
- Large rollers for clean right angle cuts

UPC# Description 60131 6 lb. pipe cutter for

00131	o ib. pipe cutter for 1/6 to 2
60132	Pipe cutter wheel for 60131

PVC AND POLYETHYLENE PIPE CUTTER



- Easy ratchet action and unique hooked tube-gripping jaws give an easy and clean cut
- Steel alloy blade is replaceable, repairable and heat-treated for long life

UPC#	Description
60190	PVC pipe cutter up through 3/4"
60191	PVC pipe cutter up through 1-1/4"
60152	PVC pipe cutter up through 2-1/8"
60193	Replacement blade for 60190
60194	Replacement blade for 60191
60155	Replacement blade for 60152

TIPS FOR CUTTING

Cutters are designed for different applications and materials, and must be used properly for optimum performance.

- Tubing cutters are designed for softer thinner-wall materials such as copper, aluminum and brass. The wheel is designed very specifically with a sharp edge for quick cutting
- Black iron pipe cutters are larger in size and use fine pitch threads and large rollers for clean right-angle cuts

To ensure lasting tool performance, use the correct cutters for copper and pipe cutters for black iron pipe.

UPC#	Qty	Pkg*	UPC#	Qty	Pkg*	Description	Cutter
60098	1	В	60099	10	В	Cutter wheels for stainless	60101, 60102, 60103
60079	1	В	60097	5	В	Axel with detent	60101, 60102, 60103
60093	1	В	_	_	_	Package one each wheel, pin	60101, 60102, 60103
60100	1	В	60107	10	В	Cutter wheels for copper	60101, 60102, 60103, 60160
60106	1	В	60117	10	В	Constrictor wheels	60101, 60102, 60103
60077	1	В	60095	5	В	Reamer screw and washer	60101, 60102, 60103
60078	1	В	60096	5	В	Reamer	60101, 60102, 60103
60108	1	В	60129	5	В	Screw for knob	60101, 60102, 60103
60074	1	В	60075	5	В	Screw for cutter wheel	60121
50072	1	В	60073	10	В	Cutter wheels	60121
0800	1	В	60125	5	В	Screw for cutter wheel	60121, 60123
60120*	1	В	60116*	20	В	Cutter wheels	60121, 60142
60144	1	В	60143	5	В	Cutter blade pin and clip	60142
60124	1	В	60115	10	В	Cutter wheels	60139
50136	1	_	60140	5	_	Screw/retainer	60139
60172	1	В	_	-	_	Screw for handle	60139
60174	1	В	_	-	-	Spring for shaft	60139
60165	1	_	_	-	_	Replacement deburr tool	60139
60147	1	В	60148	5	В	Cutter wheels	60146
60141	1	В	60149	5	В	Screws for cutter wheels	60146
60166	1	_	_	_	_	Replacement deburr tool	60146
60110	1	В	60088	10	В	Cutter wheel	60122 and 60160
50081	1	В	60085	10	В	Screw	60122 and 60160
60110	1	В	60088	10	В	Spare cutting wheel	60122 and 60160
50081	1	В	60085	10	В	Spare screw	60160
60111	1	В	60089	10	В	Cutter wheel for Imperial	75015 174-F, 274-F, 312-FB, 374-F TC 1000, TC 1020, TC 2050
60112	1	В	60090	10	В	Cutter wheel for stainless Imperial	75046 174-F, 274-F, 312-FB, 374-F TC 1000, TC 1020, TC 2050
60082	1	В	60086	10	В	Screw for Imperial	74762 174-F, 274-F, 312-FB, 374-F TC 1000, TC 1020, TC 2050
60113	1	В	60091	10	В	Cutter wheel for Imperial	74761 206-FA
60083	1	В	60087	10	В	Screw and nut for Imperial	77511 206-FA

^{*} For old model with Ritchie imprint.

SERVICE COUNTER KIT



Kit quantities only. Order individual parts and packs for restocking from chart.

Service counter cutter parts kit 60130						
UPC#	Qty	Description Cutter				
60130		Counter selection - tube cutter maintenance kit as below				
60179	1	Kit box only with label - empty				
60100	3	Cutter wheels for copper				
60079	3	Axel with detent				
60097	5	Axel with detent	60101			
60077	3	Reamer screw and spacer	60102			
60078	3	Reamer	60103			
60106	3	Constrictor wheel				
60098	3	Cutter wheel for stainless				
60108	3	Screw for knob				
60120	6	Cutter wheels 60121 (old)*, 60				
60072	3	Cutter wheels 60121 (new)*				
60080	3	Cutter wheel screw and retainer	60121 (old)*			
60074	3	Cutter wheel screw and retainer	60121 (new)*			
60144	3	Cutter pin and clip for wheel 60142				
60124	3	Cutter wheels 60139				
60136	3	Cutter wheel screw and retainer 60139				
60110	3	Spare cutting wheel	60160			
60081	3	Spare screw 60160				

^{* 60121 (}old) model with Ritchie imprint. * 60121 (new) model with YELLOW JACKET imprint.

RETAINING RING PLIERS – COMBINATION INTERNAL/EXTERNAL

Compact pliers for use on SealRight $^{\text{\tiny{TM}}}$ coupler with interchangeable tips.



- Six point broached jaw for accurate tip alignment. Adjustable for hex tips
- High handle-to-jaw ratio for increased mechanical advantage
- Easy-to-use just set lever to "internal" or "external"
- Adjustable stop for efficient internal ring installation and prevention of external ring damage
- Spring return for easy control
- Includes pouch with five pairs of alloy steel replaceable tips and hex wrench

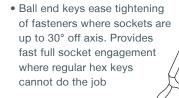
Works on internal and external retaining rings where bearings are used, where a shaft must be held in a bore, under the dashboard and more.

UPC#	Description
60593	Small pliers for 1/4" - 1" (8 mm - 26 mm) internal rings; 1/8" - 1" (3 mm - 26 mm) external rings
60596	Replacement tip set for 60593: straight 0.023" (0.6 mm), 0.036" (0.9 mm), 0.047" (1.2 mm); 90° 0.036" (0.9 mm), 0.047" (1.2 mm)

HEX KEYS

All hex keys from 1/20" to 5/16" are premium 8650 heat-treated steel alloy for rugged use.

- Chamfered square cut ends for easy socket insertion
- · Corrosion-resistant finish
- Patented organizer case with identifying slots that lock keys in place when not in use









UPC # Standard End	UPC # Bail End	Description
60670	60685	12 piece set with case
60669	-	Metric - 12 piece set with case

12" HEX KEY WRENCHES

- Heat-treated for long life
- Chamfered ends for easy insertion into sockets
- Black finish



UPC# 25 per pkg.	Size		UPC# Individual
60750		cs. Hex key wro s all sizes belov	,
60757	5/64"	1-3/4"	60857
60758	3/32"	1-3/4"	60858
60760	1/8"	1-3/4"	60860
60762	5/32"	1-3/4"	60862
60763	3/16"	1-3/4"	60863
60764	7/32"	1-3/4"	60864
60765	1/4"	1-3/4"	60865

FOLD-UP HEX KEY SETS





Locate the correct key size easily. For rugged use, each key is premium 8650 heat-treated steel alloy.

- Chamfered square cut ends for easy socket insertion
- Corrosion-resistant finish
- Smooth one-piece handle with sizes clearly marked
- Keys snap to work position for leverage and fold into handle for compact storage
- · Replacement keys available

UPC#	Description
60700	Hex key set - 8 sizes - 1/20", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"
60710	Hex key set - 9 sizes - 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"

FAN BLADE PULLER



All steel design includes a 15/16" hex head and 5/8" shaft milled back 1-1/2" and undersized for 1/2" shaft opening. A self centering alignment tool is included.

Four fingers attach to the fan blade. For durability they are made of hardened 4140 chrome moly steel.

- Remove squirrel cage type blower wheels
- Pull off fan blades
- Remove pulleys or sheaves
- Fits 1-3/4" hub maximum (will work on a 10" pully if the diameter is less than 1-3/4")

Comes with 8 screws, 4 for hex key and 4 for wrench.

UPC#	Description
60590	Fan blade puller complete
60591	Replacement "fingers" (4)
60592	Bolt for 60590

REFRIGERANT RECOVERY PLIERS



The fastest and easiest way to evacuate refrigerant before disposal of a unit.

- Snaps onto refrigerant line and punctures large hole for immediate and maximum full flow to recovery unit
- One adjustable tool fits all sizes from 3/16" to 7/8" O. D. hard tubing
- Replaceable hardened steel needle

UPC#	Description
60667	Refrigerant recovery pliers
60668	Replacement needle and gasket
19022	Replacement gasket only (5 pak)

PINCH-OFF TOOLS

60665 will pinch off and reround 1/4", 5/16", 3/8" and 1/2" copper. 60661 pinches off copper and other lines quickly. Trigger release. 60666 is a Vise Grip® pinch-off tool.



UPC#	Description
60665	Bar-style pinch-off and reround tool
60661	Plier type pinch-off tool
60666	Vise Grip® pinch-off tool

MaxFlow™ COMBINATION OIL PUMP

Pump oil into the compressor *on the down stroke* while the system is under pressure, making pumping easier with a positive stroke.

• Remove oil for recovery and conversion

Add oil to existing systems

Pumps 2.6 oz. or 78 ml per stroke

Pumps against
 200 psi pressure

 Comfort-grip rubber handle

 Universal stopper automatically adjusts to all standard openings in 1, 2-1/2 and 5 gallon oil containers

Suction transfer hose and fittings included.
 Connects to bottom of unit to pump oil from equipment quickly and efficiently

 Use with alkyl-benzene, ester-based, polyol ester, mineral and synthetic oils

Made in the USA



UPC#	Description
77940	MaxFlow [™] combination oil pump with tubing
77941	Automatic stopper for oil container openings for new 77940 pump
77942	"O" ring kit for 77940
77920	Adapter fitting straight – 1/8" NPT Male x 1/4" flare
77921	Adapter fitting 90° angle – 1/8" NPT Male x 1/4" flare
77922	24" suction hose – 1/4" fitting one end only

I.D. 1/4

Note: Not for use with ammonia laden oil.

MaxFlow™ DELUXE OIL PUMP

The MaxFlow[™] deluxe oil pump is a high capacity unit for quick charging.

Remove oil for recovery and conversion

 Add oil to existing systems

 Pumps 3.8 oz. (112.38 ml) per stroke

 Fits all size oil containers

77938 77939

59653

 Foot stand base provides support and leverage while pumping against the high pressures of a running compressor

 Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently

1/2" copper gasket soft (10 pak)

 Use with alkyl-benzene, ester-based, polyol ester, mineral and synthetic oils

• Will pump against 250 psi pressure



Optional 1/2" flexible suction hose, 24" long - fitting one end only

Optional 3/8" flexible drain hose, 24" long — fitting one end only

Optional tubing:

77938, 77939

REFILLABLE OIL INJECTORS

Add liquid to systems and sample refrigerant quickly and easily.

- Body and cap are rugged aluminum with "O" ring seal
- Male fitting at one end with Schrader. A ball valve for control on other end with a short length of hose
- Valve depressor in Female end
- 600 psi maximum working pressure
- Made in the USA

UPC#	Description
69560	1/2 oz. Oil injector 1/4" Male flare x 1/4" Female Q.C.
69561	2 oz. Oil injector 1/4" Male flare x 1/4" Female Q.C.
69562	4 oz. Oil injector 1/4" Male flare x 1/4" Female Q.C.
69563	"O" ring 1/2 oz. injector (5 pak)
69564	"O" ring 2 and 4 oz. injector (5 pak)
69565	1/2 oz. R-134a auto injector with hose and service coupler
69566	2 oz. R-134a auto injector with hose and service coupler
69567	4 oz. R-134a auto injector with hose and service coupler
69722	Replacement hose for 69560, 69561 and 69562
69724	Replacement hose for 69565, 69566 and 69567



ERGONOMIC FinFix™ COMBSFor 14 different fin sizes

Color-coded nylon fin combs are designed to easily straighten and clean fins on standard and high efficiency condensers and evaporators. Shape conforms to the hand and thumb for a more comfortable grip.

Available individually bagged or as a set of six assorted. One set of six covers 12 different fin sizes. 61157 is for high efficiency units.



Individual UPC#	Description	Fins per inch	Color	Bag of 25 UPC#
61151	FinFix [™] 1	8 and 10	Orange	61161
61152	FinFix [™] 2	9 and 15	Yellow	61162
61153	FinFix [™] 3	11 and 13	Blue	61163
61154	FinFix [™] 4	12 and 14	Green	61164
61155	FinFix [™] 5	16 and 17	Lime	61165
61156	FinFix [™] 6	18 and 20	Red	61166
61157	FinFix [™] 7	21/22 and 23/24	Purple	61167
61158	Set of 6	8 to 20	Assorted	_

6-IN-1 FIN STRAIGHTENER



Fin straightener sizes are marked on the head - 8, 9, 10, 12, 14 and 15 fins per inch. Compact 4" length.

UPC#	Description
61171	6-in-1 Fin straightener
61172	Head only
61173	Handle only

SAFETY GOGGLES



Helps protect your eyes against metal particles, sparks, refrigerant gases, etc. when working on HVAC/R systems.

Safety goggles are recommended any time you work on a system.

UPC#	Description
11002	Safety goggles
11003	Ventilated safety goggles

STAINLESS TELESCOPING INSPECTION MIRRORS

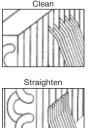


- Check leaks in hard to see places
- Stainless steel mirror on ball joint rotates 360°
- Handle extends to 28"

UPC#	Description
78100	Round 3-3/4" diameter
78101	Rectangular 3-3/4" x 2"
78102	Rectangular 2" x 1-1/4"

FIN STRAIGHTENERS





Fin straighteners straighten even severely damaged condenser and evaporator fins quickly and easily. Also clean away lint, rust, dirt and other debris.

Straightening wire tension is adjustable to accommodate various fin types. Wires are held by a sturdy metal body.

61170 includes a long comfort-grip handle, making straightener easier to use. Head is 20 percent wider than the 61150 to straighten more fins in one pass.

UPC#	Description
61150	Fin straightener
61170	Fin straightener with large handle

TELESCOPING GLASS MIRRORS



UPC#	Description	Extension
78094	2-1/4" round	9-1/4" to 14-1/4"
78097	2-1/4" round magnified (2X)	9-1/4" to 14-1/4"
With po	cket clip and ins	sulated head
78098	1-1/4" round	7" to 19"
78099	1-1/4" round magnified (2X)	7" to 19"
78103	2" x 3-1/2" rectangular	15-1/2" to 18"
78104	1" x 2" oval	7" to 19"
Replace	ement mirrors or	nly
78105	2-1/4" round glass	3
78106	2" x 3-1/2" rectan	gular glass

78107 1" x 2" oval glass

NECK LIGHT



Proper lighting and the freedom to use both hands makes every job run smoother.

- Dual LED Lights
- Up to 200 Lumens
- Hands-free
- 90° Pivoting Heads



	•
UPC#	Description
10990	Neck Light
10996	Neck Light 6-Pack, Counter Display

PREMIUM WORK GLOVES



The perfect work gloves offer protection, comfort and mobility without the bulkiness. These gloves are designed to move with you and offer the grip needed to finish the job.

- Premium grade pigskin palm to prevent abrasions and refrigerant burns
- Blue stretch back minimizes resistance to movement
- · Neoprene knuckle for stretch and flexibilty
- Velcro closure for secure connection

UPC#	Description
61201	YELLOW JACKET® Premium Gloves - L
61202	YELLOW JACKET® Premium Gloves - XL

MAGNETIC HOOK



Every job site presents unique challenges. Finding a place to hang your gauges should not be one of them. This is a simple, low-cost solution to protect your valuable equipment at every job site.

- Holds up to 65 lbs (30 kg)
- Hook swivels up and down and rotates 360°
- Rubber backer prevents surface scratches

	cription
61193 Magn	netic Hook

SAFETY GLASSES



Eye protection is critical for HVAC/R service and finding safety glasses that are both comfortable and durable can be a challenge.

- High-strength polycarbonate lenses triple-dipped in anti-scratch coating
- Rubberized temple surface for secure placement and
- Conformable thermoplastic rubber nose pad
- Glasses offer 99.9% UV protection
- ANSI/ISEA Z87.1+2015 & MCEPS GL-PD 10-12 compliant

UPC#	Description
11022	YELLOW JACKET® Safety Glasses - Clear
11023	YELLOW JACKET® Safety Glasses - Sun

Camp Hill, PA 17011 PH: 717-249-6019 | FAX: 717-960-1528 info@epicsalesgroup.net www.epicsalesgroup.net

Monti and Associates, Inc.

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Morley Associates, Inc.

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4255 Wade Green Road, Ste 525 Kennesaw, GA 30144 PH: 770-218-1750 | FAX: 770-218-1756 info@evdunbarco.com www.evdunbarco.com

The Partners Group HVAC

PO Box 23 Rowlett, TX 75030-0023 PH: 877-314-2938 | FAX: 800-231-4617 info@tpghvac.com www.tpghvac.com

DENCO Manufacturers Representatives

1011 W. Foothill Blvd. Azusa, CA 91702 PH: 626-815-9444 | FAX: 626-815-9894 dave@dencorep.net www.dencorep.net

Danko Mechanical Sales Company, LLC

21175 N 9th Place, Suite 300 Phoenix, AZ 85024 PH: 602-298-9360 danko@dankomsc.com www.dankomsc.com

CANADA

B.J. Williams & Associates, Inc.

745 Development Drive, Unit 3

Kingston, ON K7M 4W6 **CANADA** PH: 613-389-2879 | FAX: 613-389-4967 shane@actoolsource.com www.actoolsource.com

MEXICO, CENTRAL AND SOUTH AMERICA

International Sales Group. Inc.

1040 N 88 Avenue Plantation, FL 33322 PH: 001-954-515-9445 martin@internationalsalesgroup.net www.internationalsalesgroup.net

INTERNATIONAL

Fairfield Technologies Ltd.

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AUSTRALIA

Sky Refrigeration Pty Ltd.

54 Industrial Park Drive Lillydale VIC 3140 **AUSTRALIA** PH: +61 3 9735 2313 pete@skyrefrig.com

CONTACT THE FACTORY

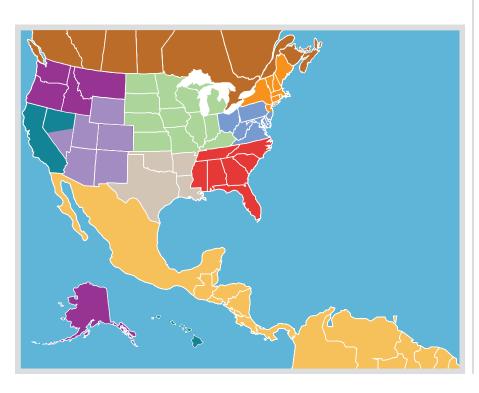
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