CHARGING SYSTEMS & DIAGNOSTIC TOOLS



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YJACK™ SERIES

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 MANIIFOLDS



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 67030)
- 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 67030)
- 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 67030)
- 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

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

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

temperature clamps, ball valve and 5/16" hoses

· 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

UPC # Description

40860

40870

40875

40877

· 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

UPC# **Optional/Replacement Parts** 67030 Vacuum Sensor 10146 Backpack 67010 Temperature Probe Clamp 67061 YJACK™ Temperature Clamp (wireless) (3) 60" RYB (Standard Fittings); (1) 60" Y (3/8" str x 3/8" 45° Quick 21990 Coupler)

18160 60" Yellow, 3/8" straight x 3/8" 45°, PLUS II™ "B" 60" 3 pak, standard fitting, PLUS II™ 1/4" hose 21985 29985 60" 3 pak, compact ball valve, PLUS II™ 1/4" hose

29425 60" Blue, compact ball valve (1/4" x 5/16") 29465 60" Red, compact ball valve (1/4" x 5/16") 40844 P51 TITAN® Replacement Micro-USB Board





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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.

System Energy Efficiency Ratio (EER)

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.

of devices and P51-870 TITAN®.



YJACK PRESS™ PRESSURE GAUGE NEW

- Wireless system pressure measurement up to 725 psig (50 bar)
- 45° x 1/4" quick-coupler fitting for versatile system attachment



- Integrated charging port to easily adjust refrigerant charge
- Measures system pressure without losing refrigerant (no hoses and manifolds necessary)
- Working Pressure: -14.7 to 725 psig (-1.01 to 50 bar gauge)
- Pressure Sensor Accuracy: 0.5% full scale at 77°F (25°C). 1.8% full scale from 0°F to 130°F (-18°C to 85°C)
- 300+ hour battery life (2x AAA included)

YJACK VAC™ VACUUM GAUGE *NEW*

· Wireless system vacuum measurement from atmospheric pressure to 1 micron



- Robust sensor resists pressure shock and oil contamination
- 45° x 1/4" guick coupler fitting for versatile system attachment
- Electronic paper display for clear visibility even in direct sunlight
- Proof Pressure: 450 psi (31 bar)
- Vacuum Reading Range: 1 to 760,000 microns with the YJACK VIEW™ App (1 to 99,999 microns on integrated display)
- Accuracy: +/- 20% of reading (from 10 to 25,000 microns)
- Up to 240 hour battery life with power saving mode (2x AAA included)

YJACK PATH™ RANGE EXTENDER

· Connects and re-broadcasts up to (6) YJACK[™] devices and (2) P51-870 TITAN® devices at one time



- Adds up to an additional 400 ft signal range to all YJACK™ and P51-870 TITAN® devices*
- Amplifies signal strength through difficult to penetrate barriers
- Use to circumvent obstructions to your Bluetooth® signal
- Create a signal perimeter with multiple YJACK PATH[™] devices to drastically increase line of sight range
- 75 hour continous duty battery life (2x AAA included)

YJACK DEW™ PSYCHROMETER

Measures percent relative humidity, dry bulb temperature, wet bulb temperature and dew point temperature



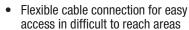
- Measures enthalpy change across evaporator coil for system operational efficiency
- Features 8" flexible steel wand for optimal sensor positioning within ventilation ducting
- Optimized sensor housing designed for increased air exchange and better response time
- Relative Humidity Measurement Range: 0 to 100% RH
- Relative Humidity Accuracy: +/- 2.0 % RH TYP (10 to 90 %RH)**
- Temperature Measurement Range: -40°F to 257°F (-40°C to 125°C)
- Temperature Measurement Accuracy: +/- 0.2 °C TYP (-10°C to 80°C)**
- 1500 hour battery life (2x AAA included)

YJACK AMP™ CURRENT PROBE NEW

- Wireless current measurement up of 50 Amps AC
- 1.2" jaw opening
- Current Sensor Accuracy: +/-1% of reading or +/- 0.15 Amps (whichever is greater)
- Maximum Voltage: 660V
- Measures inrush current to analyze hard starts and troubleshoot blown fuses
- Flexible spiral cable and compact clamp body for easy access in difficult to reach areas
- 600 hour battery life (2x AAA included)

YJACK™ TEMPERATURE CLAMP

- Measures surface temperature of pipes up to 1.25" diameter
- Temperature clamp provides strong, secure connection to system







1200 hour battery life (2x AAA included)

YJACK™ TEMPERATURE STRAP

- Measures surface temperature of pipes up to 6" diameter
- Elastic strap creates secure connection and prevents loosening under vibration
- Quick-release latch for rapid connection and disconnection
- Flexible cable for easy access
- in difficult to reach areas
- Temperature Measurement Range: -40°F to 176°F (-40°C to 80°C)
- Temperature Measurement Accuracy: +/-1.5 °C TYP**
- 1200 hour battery life (2x AAA included)

YJACK™ SERIES OVERALL FEATURES:

- Compatible with YJACK VIEW[™] App and P51-870 TITAN[®] devices (firmware version v3.0 or later) [YJACK PRESS™ not compatible with P51-870 TITAN®]
- Bluetooth® 4.2 compliant low energy radio
- 400 ft line of sight signal range*
- Rapid response time
- Rotating mounting magnet for optimal Bluetooth® transmitter placement [not available on YJACK PRESS™ and YJACK VAC™]
- Operating Temperature: -0.4°F to 131°F (-18°C to 55°C); [YJACK VAC[™] is 32°F to 104°F (0°C to 40°C)]
- Storage Temperature: -40°F to 122°F (-40°C to 50°C); [YJACK PRESS™: -40°F to 130°F (-40°C to 55°C)]; [YJACK VAC™: -4°F to 122°F (-20°C to 50°C)]; [YJACK AMP™: -22°F to 130°F (-30°C to 55°C)]
- IP52 rated
- 2-year warranty

*Radio interference and nearby obstructions may reduce signal strength **Results may vary with ambient conditions





The YELLOW JACKET® YJACK VIEW™ App provides seamless integration with YJACK™ and P51-870 TITAN® devices offering a complete HVAC/R system diagnostic solution. Just use your YJACK™ and P51-870 TITAN® devices with your smart phone for complete system analysis.

Easily receive and analyze live data from all powered on nearby YJACK™ and P51-870 TITAN® devices including system pressure, temperature, vacuum, psychometrics and current draw. Includes a variety of session types useful for diagnosing any HVAC/R system.

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
- Generate highly customized and detailed service reports capturing system readings and equipment information
- Monitor 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

YJACK VIEW™ HIGHLIGHTS:

- Effortlessly create and manage a network of connected HVAC/R system diagnostic devices
- Compatible with all YJACK[™] and P51-870 TITAN® devices (firmware version v2.0 and later)
- No device connections necessary seamlessly move in and out of range of devices without reconnecting or relaunching application
- Freely navigate between available session types and multiple sessions at one time
- New session types including Psychrometric System Efficiency and Leak Test as well as communication capabilities with YJACK PRESS™, YJACK VAC™, YJACK AMP™ in v3.0 or later
- Easily place and monitor status of all YJACK[™] and P51-870 TITAN[®] devices from one screen
- · Adjustable datalog formatting and multiple sampling intervals

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.

Pressure | Pegaperature | LOW MOIL Heart SLOIL System Pressures | P. 123.3 pag P. 488.8 pag Low Pressure | High Pressure | PAJ 1255.3 | 133.3 pag | System Temperatures | T.72.6 19 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 22

PSYCHROMETRIC SYSTEM EFFICIENCY NEW

Analyze psychrometric data as reported by (2) YJACK DEW™ devices. Ensure maximum home 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.

1	II Last Test	
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Ī	15.5	00:04:29
Ì	0.0	0.0

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

Electrical session displays readings from YJACK AMP™ Wireless Current Probe while calculating power draw and system Energy Efficiency Ratio (EER).

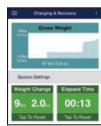
CREATE SERVICE REPORTS NEW

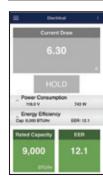
Service report feature creates highly customizable PDF reports of system measurements and service information while storing past jobs and reports.

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.





YJACK™ KITS



YJACK™ Temperature Clamp Kit







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



YJACK VIEW™ APP SUPPORTED YELLOW JACKET® DEVICES:

- P51-870 TITAN® Digital Manifold
- YJACK PATH[™] Range Extender
- YJACK PRESS[™] Pressure Gauge
- YJACK VAC™ Vacuum Gauge
- YJACK AMP[™] Current Probe
- YJACK[™] Temperature Strap YJACK DEW[™] Psychrometer

YJACK[™] Temperature Clamp

· Wireless Refrigerant Scale (P/N 68864)

YJACK VIEW™ App Apple/App Store



☐iPhone ☐iPad

YJACK VIEW[™] App Android™/Google Play





Firmware Updates



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

40877 KIT INCLUDES:

- Vacuum sensor (P/N 67030)
- 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™
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
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
67030	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,

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

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) 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

valve

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: Ye

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

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.

IIIAN	® 4-Valve			
UPC#	Description - °F/°C	Gauges	Scale	Refrigerant
49914	Manifold only with 5/16"-3/8"-5/16"-5/16" anchor and service fittings	Red/Blue	kPa/psi	
49913	49914 with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Red/Blue	kPa/psi	R-32/410A
49915	Manifold only with 5/16"-3/8"-1/4"-5/16" anchor fittings and 1/4"-3/8"-1/4" service fittings	Red/Blue	kPa/psi	
49922	Manifold only	Liquid	bar/psi	R-22
49925	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Liquid	bar/psi	R-22
49960	Manifold with 60" PLUS II™ compact ball valve RYB and 3/8" x 45°	Red/Blue	bar/psi	
49962	Manifold only	Red/Blue	bar/psi	
49964	Manifold only with 5/16-3/8-5/16-5/16" fittings	Red/Blue	bar/psi	R-32/410A
49965	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Red/Blue	bar/psi	
49966	Manifold only with 1/4" fittings	Red/Blue	bar/psi	
49971	Heat pump manifold only, 1/4×5/16×1/4 hose holder fittings	Black/Black	bar/psi	R-410A
49982	Manifold only	Liquid	bar/psi	
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	Manifold only	Liquid	psi	D 00/4404
49977	Manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Liquid	psi	R-22/410A
49963	Manifold only	Red/Blue	psi	
49967	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Red/Blue	psi	
49968	Manifold with 60" PLUS II™ compact ball valve RYB and 3/8" x 45°	Red/Blue	psi	R-22/404A/410A
49283*	Manifold only	Red/Blue	psi	
49983	Manifold only	Red/Blue	psi	
49987	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Red/Blue	psi	D 00/1046/4044
49993	Manifold only	Liquid	psi	R-22/134a/404A
49997	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Liquid	psi	
49932	Manifold only	Red/Blue	psi	
49935	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Red/Blue	psi	R-134a/404A/407C
49952	Manifold only	Liquid	psi	11 10 10 10 10 10 10
49955	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	Liquid	psi	
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	Manifold only	Red/Blue	bar/psi	
49912	Manifold only	Red/Blue	kPa/psi	R-22/134a/404A
49911	49912 manifold with 60" <i>PLUS II</i> ™ RYB and 3/8" x 45°	Red/Blue	kPa/psi	
49931	Manifold only	Red/Blue	bar/psi	R-134a/404A/407F
49934	Manifold only; no sight glass	Red/Blue	bar/psi	
49936	Manifold only	Red/Blue	bar/MPa	R-134a/404A/407C
49956	Manifold only	Red/Blue	bar/psi	
49972	Heat pump manifold; no sight glass; 800 psi both gauges	Black/Black	bar/psi	

* Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see Gauges section.

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

recoporerie bailt in gaskets				
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	Manifold 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
49860	With 60" PLUS II™ compact ball valve RYB	Red/Blue	bar/psi	
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 MPa	R-32/410A
40922	Manifold only with 5/16" fittings	Red/Blue	IVIPa	H-32/41UA



* 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)



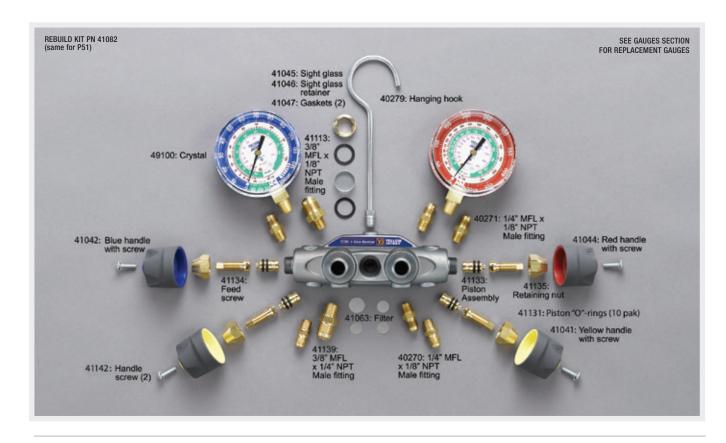
Rubber boots slip easily around gauges to cushion and protect them from impact.

- 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

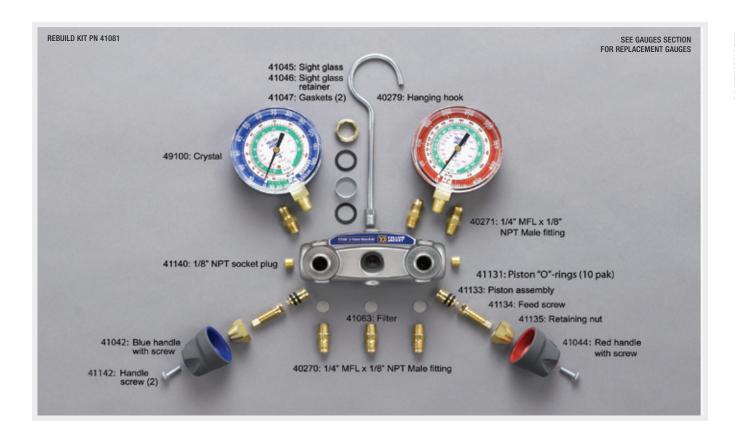


UPC#	Description
49010	2-1/2" Polycarbonite Lens
49090	2-1/2" Set of gauge boots
49091	2-1/2" Red protective gauge boot
49092	2-1/2" Blue protective gauge boot
49100	3-1/8" Replacement crystal
49190	3-1/8" Set of gauge boots
49191	3-1/8" Red protective gauge boot
49192	3-1/8" Blue protective gauge boot

TITAN® 4-VALVE MANIFOLD REPLACEMENT PARTS

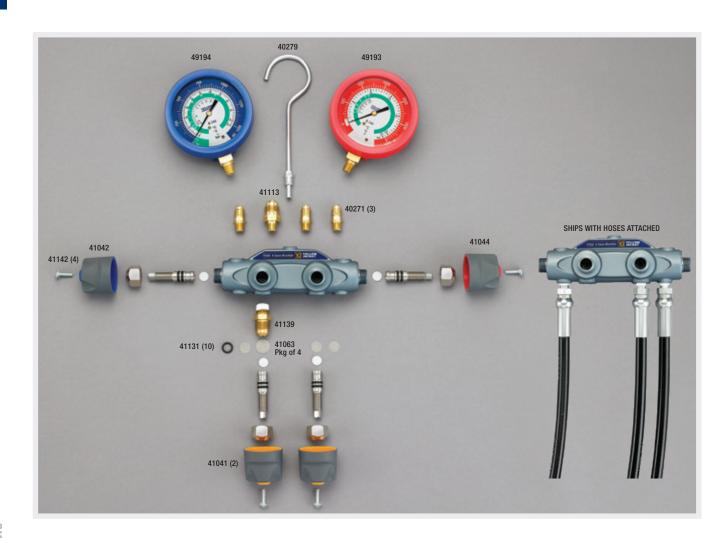


TITAN® 2-VALVE MANIFOLD REPLACEMENT PARTS



10. SYSTEM TOOLS

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

• 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 seat
- Contoured easy-grip handles for positive control; color-coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- · Heavy duty hook won't pull out
- 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



## ## ## ## ## ## ## ## ## ## ## ## ##		port for larger systems					
	BRU	TE II® 4-Valve					
## Manifold only ## Manifold with 72" PLUS II" RYB and 3/8" x 45" 3/8" 1/4" Liquid bar/psi bar	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	3/8"	1/4"	Liquid	bar/psi	D 00
46003 Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45" 46160 Manifold only with 5/16"-3/8"-14"-5/16" anchor and 1/4" service fittings 46170 Manifold only with 5/16"-3/8"-14"-5/16" anchor and 1/4" service fittings 46174 Manifold only with 5/16"-3/8"-15/16" anchor and service fittings 46176 Manifold only with 5/16"-3/8"-15/16" anchor and service fittings 46176 Manifold only with 5/16"-3/8"-15/16" anchor and service fittings 46176 Manifold only with 5/16"-3/8"-15/16"-5/16" anchor and service fittings 46176 Manifold only with 5/16"-3/8"-5/16"-5/16" anchor and service fittings 46176 Manifold only with 5/16"-3/8"-5/16"-5/16" anchor and service fittings 46176 Manifold only 46101 Manifold with 60" PLUS II" Compact ball valve RYB and 3/8" x 45" 46101 Manifold only 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold only 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" PLUS II" RYB and 3/8" x 45" 46101 Manifold with 60" RYB and 3/8" x 45" 46101 Manifold with 60" RYB and 3	46026	Manifold with 72" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Liquid	bar/psi	K-22
## A6160 Manifold only with 5/16*-3/8*-1/4*-5/16* anchor and 1/4* service fittings — — — Red/Blue bar/psi A6170 Manifold only with 5/16*-3/8*-5/16* anchor and service fittings — — — Red/Blue bar/psi Red/Blue kPar/psi Red/Blue psi Red/Blu	46000	Manifold only	3/8"	1/4"	Red/Blue	bar/psi	
### Abstract Amifold only with 5/16"-3/8"-5/16" anchor and service fittings	46003	Manifold with 60" PLUS II™ compact ball valve RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	bar/psi	
Manifold only with 5/16"-3/8"-5/16" anchor and service fittings — — Red/Blue R	46160	Manifold only with 5/16"-3/8"-1/4"-5/16" anchor and 1/4" service fittings	-	-	Red/Blue	bar/psi	R-32/410A
### 46176 Manifold only with 5/16"-3/8"-5/16" anchor and service fittings ### UPC# Description - "F ### Wacuum port ### I/Lo charge	46170	Manifold only with 5/16"-3/8"-5/16"-5/16" anchor and service fittings	-	-	Red/Blue	bar/psi	11 02/110/1
Description - "F Vacuum port Hi/Lo charge Gauges Scale Refrigerant	46174	Manifold only with 5/16"-3/8"-1/4"-5/16" anchor and 1/4" service fittings			Red/Blue	kPa/psi	
Manifold only Manifold only Manifold only Manifold only Manifold only Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/404A/410/409291" Manifold only Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/404A/410/404030 Manifold only Manifold only Manifold only Manifold only Manifold with 72" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-134a/404A/407/40030 Manifold only Manifold only Manifold only Manifold only Manifold only Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/4004/4004 Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/4004/4004 Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/4004/4004/4004 Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/4004/4004/4004/4004/4004/4004/40	46176	Manifold only with $5/16"-3/8"-5/16"$ anchor and service fittings			Red/Blue	kPa/psi	
Manifold only Manifold only Manifold only Manifold only Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/404A/410/49291" Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/404A/410/49291" Manifold only Manifold only Manifold only Manifold only Manifold only Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-134a/404A/407 R-	UPC#	Description - °F	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45" 3/8" 1/4" Red/Blue psi R-22/404A/410/4 Red/Blue psi Manifold only 3/8" 1/4" Red/Blue psi Red/Blue Red/Bl	46011	Manifold only	3/8"	1/4"	Liquid	psi	R-22/410A
Manifold only Manifold with 60" PLUS JI" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi Paid only PLUS JI" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi Paid only Manifold only Manifold only Manifold with 60" PLUS JI" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/46043 Manifold with 60" PLUS JI" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/46043 Manifold with 72" PLUS JI" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-22/134a/404/46043 Manifold only Manifold only Manifold only Manifold only Manifold only Manifold only 3/8" 1/4" Red/Blue bar/psi R-12/22/502 Refrigerant Manifold only Manifold only 3/8" 1/4" Red/Blue bar/psi R-12/22/502 R-134a/404/404/404/404/404/404/404/404/404/4	46010	Manifold only	3/8"	1/4"	Red/Blue	psi	
Manifold only Manifold with 60" PLUS "RYB and 3/8" x 45" 3/8" 1/4" Red/Blue psi ps	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/410A
Manifold only Manifold only Manifold only Manifold only Manifold only Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-134a/404A/407	49291*	Manifold only	3/8"	1/4"	Red/Blue	psi	11 22/ 10 1/ 1 110/ 1
Manifold only Manifold only Manifold with 60" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi R-134a/404A/407	46022	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	
Manifold with 60" PLUS " RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi	46030	Manifold only	3/8"	1/4"	Red/Blue	psi	
Manifold with 60" PLUS " RYB and 3/8" x 45" 3/8" 1/4" Liquid psi	46031	Manifold only	3/8"	1/4"	Liquid	psi	R-13/a//0//A//070
46040 Manifold only 46041 Manifold only 46042 Manifold with 60" PLUS II" RYB and 3/8" x 45° 46043 Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II" RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II" RYB and 3/8" x 45° 46049 Manifold with 72" PLUS II" RYB and 3/8" x 45° 46040 Manifold only 46041 Manifold only 46042 Manifold only 46043 Manifold only 46044 Manifold only 46045 Manifold only 46046 Manifold only 46046 Manifold only 46047 Manifold only 46048 Manifold only 46049 Manifold only 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 46040 Manifold	46032	Manifold with 60" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Red/Blue	psi	11-10-47-0-70-101
Manifold only Manifold with 60" PLUS PSI PSI	46038	Manifold with 72" PLUS II™ RYB and 3/8" x 45°	3/8"	1/4"	Liquid	psi	
46042 Manifold with 60" PLUS II" RYB and 3/8" x 45° 46043 Manifold with 60" PLUS II" Compact ball valve RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46048 Manifold with 72" PLUS II™ RYB and 3/8" x 45° 46040 Manifold only 46040 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 at 1/2" x 60" heavy duty - Straight x 45° and 46090 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy	46040	Manifold only	3/8"	1/4"	Red/Blue	psi	
46043 Manifold with 60" PLUS II" compact ball valve RYB and 3/8" x 45° 3/8" 1/4" Red/Blue psi psi 46048 Manifold with 72" PLUS II" RYB and 3/8" x 45° 3/8" 1/4" Liquid psi psi 46048 Manifold with 72" PLUS II" RYB and 3/8" x 45° 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/psi R-134a/404A/407 46190 Manifold only 3/8" 1/4" Red/Blue bar/psi R-134a/404A/407 46110 Manifold only 3/8" 1/4" Red/Blue bar/psi R-22/134a/404A/407 46110 Manifold only 3/8" 1/4" Red/Blue bar/psi R-22/134a/404A/407 46110 Manifold only 1/2" 3/8" Liquid bar/psi R-22/134a/404A/404/404/404/404/404/404/404/404/40	46041	Manifold only	3/8"	1/4"	Liquid	psi	
Manifold with 72" PLUS II" RYB and 3/8" x 45° 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/404A
Description - °C Vacuum port Hi/Lo charge Gauges Scale Refrigerant	46043	Manifold with 60" PLUS II $^{\!$	3/8"	1/4"	Red/Blue	psi	
Manifold only Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and Manifold with 3 at 3/8" x 60" heavy duty - Straight	46048		3/8"		Liquid	psi	
46130 Manifold only 46190 Manifold only 46190 Manifold only 46140 Manifold only BRUTE II® 4-Valve Commercial UPC# Description - °F'°C Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46081 Manifold only 46084 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1 1/2" 3/8" Liquid bar/psi At 1/2" x 60" heavy duty - Straight x 45° and 1 1/2" 3/8" Liquid bar/psi R-22 1 at 1/2" x 60" heavy duty - Straight x Straight UPC# Description - °F Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 46091 Manifold only 46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" Alg" Red/Blue psi Ac2/134a/404/4694 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" Red/Blue psi R-22/134a/404/4694 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi R-22/134a/404/4694 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi R-22/134a/404/4694 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi R-22/134a/404/4694 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi	UPC#	Description - °C	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
Addition	46180	Manifold only	3/8"			bar/psi	R-12/22/502
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 45° and 1 at 1/2" x 60" heavy duty - Straight x 45° and 1 at 1/2" Manifold only Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Red/Blue psi R-22/134a/404A	46130	Manifold only					R-134a/404A/407C
### Description - °F/°C ### Description - °F ### Description - °F				., .			
UPC# Description - °F/°C Wacuum port Hi/Lo charge Gauges Scale Refrigerant 1/2" 3/8" Liquid bar/psi R-22 1 at 1/2" x 60" heavy duty - Straight x Straight UPC# Description - °F Wacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 3/8" 3/8" Red/Blue psi Liquid psi Manifold only 1/2" 3/8" Liquid psi Liquid psi Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi		,	3/8"	1/4"	Red/Blue	bar/psi	R-22/134a/404A
46081 Manifold only 1/2" 3/8" Liquid bar/psi 46084 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" 3/8" Liquid bar/psi R-22 UPC# Description - °F Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 3/8" 3/8" Red/Blue psi psi 46091 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi R-22/134a/404/4 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi Psi	BRU	TE II® 4-Valve Commercial					
46084 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 WPC# Description - °F Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 46091 Manifold only 46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Red/Blue psi 78-22/134a/4044 88-22/134a/4044 89-22/134a/4044 89-22/134a/4044 1/2" 3/8" Liquid psi 1/2" 3/8" Liquid psi 1/2" 3/8" Red/Blue psi 1/2" 3/8" Liquid psi	UPC#	Description - °F/°C	Vacuum port	Hi/Lo charge	Gauges	Scale	Refrigerant
1 at 1/2" x 60" heavy duty - Straight x Straight UPC# Description - °F Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 3/8" 3/8" Red/Blue psi 46091 Manifold only 1/2" 3/8" Liquid psi 46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi	46081	Manifold only	1/2"	3/8"	Liquid	bar/psi	
UPC# Description - °F Vacuum port Hi/Lo charge Gauges Scale Refrigerant 46090 Manifold only 3/8" 3/8" Red/Blue psi 46091 Manifold only 1/2" 3/8" Liquid psi 46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi	46084		1/2"	3/8"	Liquid	bar/psi	R-22
46090 Manifold only 3/8" 3/8" Red/Blue psi 46091 Manifold only 1/2" 3/8" Liquid psi 46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi	LIDC#		Vooruum nout	Hi/La abayes	Course	Coole	Defrieswort
46091 Manifold only 1/2" 3/8" Liquid psi R-22/134a/404/4 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi			•				Reinigerant
46092 Manifold with 4 at 3/8" x 60" heavy duty - Straight x 45° 3/8" 3/8" Red/Blue psi 46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi						'	
46094 Manifold with 3 at 3/8" x 60" heavy duty - Straight x 45° and 1/2" 3/8" Liquid psi		*					R-22/134a/404A
		, , ,					
	46094		1/2"	3/8"	Liquid	psi	

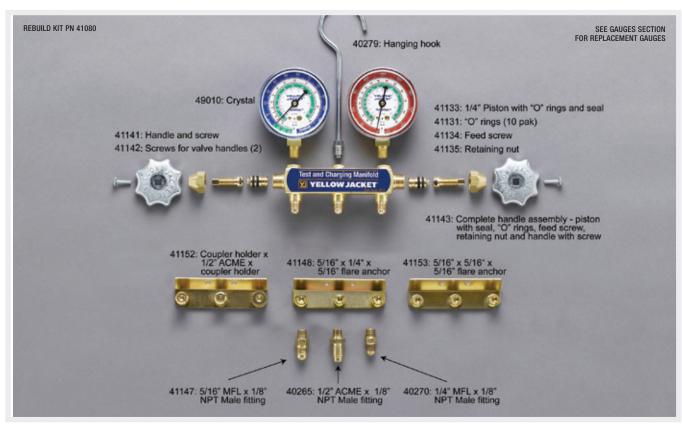
* Manifold comes standard with certified gauges. For more information on the certification of 3-1/8" gauges, see Gauges section.

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





Series 41 Manifolds						
UPC#	Description - °F and °C - Red/Blue	Scale	Refrigerant			
42051	Heat pump manifold only, 1/4-5/16-1/4"	bar/psi	Henrigerant			
42054	With 60" black $PLUS$ II " hoses (two 1/4x5/16" ball valve and one 1/4x1/4" ball valve)	bar/psi	R-410A			
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				
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				
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	psi				
44213	With 36" PLUS II™ SealRight fittings	psi	R-12/22/502			
44220	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 41311	With 36" PLUS II™ standard fittings	psi				
41311	With 48" <i>PLUS II</i> [™] standard fittings With 60" <i>PLUS II</i> [™] standard fittings	psi				
41313	With 72" PLUS II™ standard fittings	psi psi				
43313	With 36" PLUS II™ standard fittings	psi				
44313	With 36" PLUS II™ SealRight fittings	psi	R-134a/404A/507			
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	Refrigerant				
41292	Manifold only	kg/cm²/psi				
41293	With 36" PLUS II™ standard fittings	kg/cm²/psi	R-12/22/502			
41295	With 60" PLUS II [™] standard fittings	kg/cm²/psi				
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 41392	Manifold with 60" <i>PLUS II</i> ™ standard fittings Manifold only	bar/psi kg/cm²/psi	R-134a/404A/507			
41363	Manifold with 36" <i>PLUS II</i> ™ standard fittings	kg/cm²/psi				
41365	Manifold with 60" <i>PLUS II</i> [™] standard fittings	kg/cm²/psi				
43365	Manifold with 60" <i>PLUS II</i> ™ standard fittings	kg/cm²/psi				
41332	Manifold only	bar/psi	R-134a/404A/407C			
40944	Manifold only with 1/4" ports and 5/16" hose fittings	bar/MPa				
41781	Manifold only with 5/16" fittings	bar/MPa	R-410A			
41780	41780 Manifold only with 1/4" fittings bar/MPa					
*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)

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



Вох	Clamshell			
UPC#	UPC#	Description - °F/°C	Scale	Refrigerant
41863	-	Manifold only with 5/16"-1/4"-5/16" anchor	kPa/psi	
41652	_	fittings and 1/4" service fittings - red/blue gauge Manifold only with 5/16", 1/4", 5/16" anchor	bar/psi	
		and 1/4" service fittings	· ·	
41659	- 42021	Manifold only with 5/16" anchor fittings Manifold only	bar/psi bar/psi	R-32/410A
_	42021	Manifold with 60" <i>PLUS II</i> [™] standard fittings	bar/psi	
41862	-	Manifold only with 5/16" anchor and	kPa/psi	
	41865	service fittings 41862 with 60" PLUS II™ 5/16" fittings	kPa/psi	
UPC#	41003 UPC#	Description - °F - Red/Blue	Scale	Refrigerant
UPC#	41842	Manifold only	psi	nemgerant
_	42007	Manifold with 60" <i>PLUS II</i> [™] standard fittings	psi	R-12/22/134a
_	41846	Manifold with 72" <i>PLUS II</i> ™ with couplers	psi	11 12/22/1044
_	42001	Manifold only	psi	
_	49271*	Certified 42001 manifold		
-	42004	Manifold with 60" PLUS II™ standard fittings	psi	R-22/404A/410A
-	42201	With 60" PLUS II™ compact ball valve fittings	psi	
-	42005	Manifold only	psi	
-	49272*	Certified 42005 manifold		R-22/134a/404A
_	42006 42205	Manifold with 60" <i>PLUS II</i> [™] standard fittings With 60" <i>PLUS II</i> [™] compact ball valve fittings	psi psi	
_	41209	With 36" <i>PLUS II</i> [™] standard fittings	psi	
UPC#	UPC#	Description - °C - Red/Blue	Scale	Refrigerant
-	41622	Manifold only	bar/psi	Henrigerant
_	41852	Manifold only	kPa/psi	R-22/134a/404A
_	41855	Manifold with 60" <i>PLUS II</i> ™ standard fittings	kPa/psi	
-	41632	Manifold only	bar/psi	R-12/134a/413A
-	42031	Manifold only	psi	R-22/404A/410A
-	42034	With 60" PLUS II™ hose, standard fittings		
44704	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" <i>PLUS II</i> ™ SealRight fittings	psi	R-12/22/502
42332	Manifold only	psi	
42333	With 36" <i>PLUS II</i> ™ compact ball valve fittings	psi	
42436	With 60" PLUS II™ compact ball valve fittings	psi	R-22/134a/ 404A
42435	With 60" <i>PLUS II</i> ™ standard fittings	psi	
45221	Retro manifold °C	psi	R-134a/404A 407C
45222	Retro manifold °F	psi	

NH₃ AMMONIA MANIFOLD UPC # Description 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 3/8" Ammonia manifold with NBC-72" hoses Replacement valve assembly "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

Manifold comes standard with certified gauges. 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/°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

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
46062	Series 41 Digital Manifold with 3-pack <i>PLUS II</i> ™ hoses with compact ball valves
UPC#	Replacement Parts
49017	Replacement gauge

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	-	



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 IN
 THE US

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 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 sight-glass 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

THE US

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.

LIPC# Description



UPC#	Description
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 recovery tank pressure checks
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