

YJACK™ Series Wireless Probes



YELLOW JACKET®

YJACK™ FOR MORE CONNECTED TECHS.

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 communicate directly with the P51-870 TITAN® Digital Manifold simultaneously.



Enhanced YJACK VIEW™ App

- 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®.

Network of Wireless Devices 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 energy radio
- 400 ft. line-of-sight signal range
- Rapid response time

- 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-of-sight 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



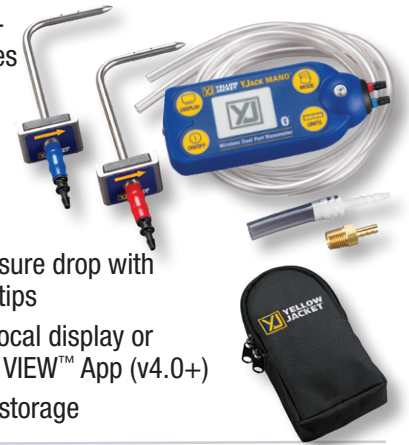
YJACK™ Temperature Strap 67062

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



YJACK MANO™ Dual Port Manometer 67068 **NEW**

- 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 **NEW**

- 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 **NEW**

- System vacuum measurement 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 **NEW**

- 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



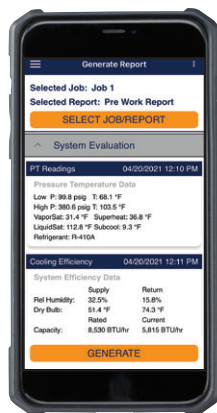
YJACK VIEW™ SMART APPLICATION:

- Measure HVAC/R system pressure, temperature, saturation temperature, superheat and subcooling
- Monitor system evacuation status
- Check indoor air comfort and system efficiency with psychrometric 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
- 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



CREATE SERVICE REPORTS NEW

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

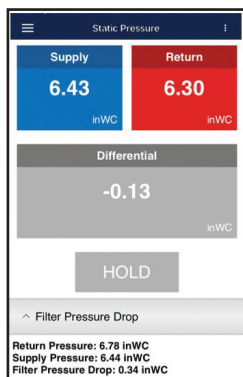


ENHANCED DATA LOGGING

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.

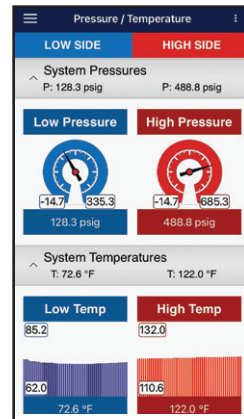
STATIC PRESSURE SESSION NEW

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



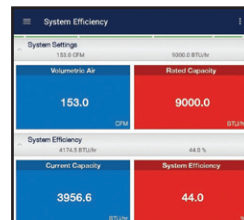
PRESSURE / TEMPERATURE NEW

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.



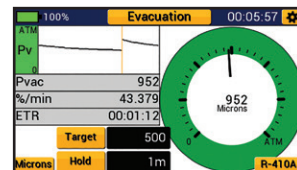
PSYCHROMETRIC SYSTEM EFFICIENCY NEW

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.



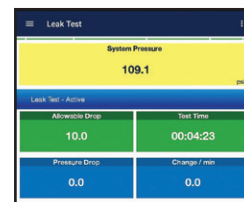
EVACUATION NEW

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.



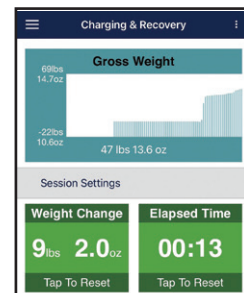
LEAK TEST NEW

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



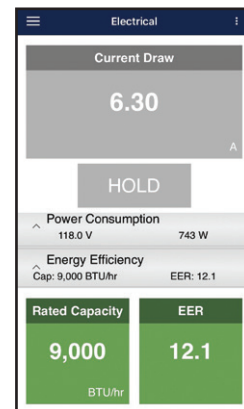
CHARGING & RECOVERY

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

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



YJACK™ KITS



67070
YJACK™ Temperature
Clamp Kit



67071
YJACK™ Temperature/
Humidity Kit



67072
YJACK™ Charging
Kit *NEW*



67073
YJACK™ Charging
& Air Kit *NEW*



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 Clamp
- YJACK™ Temperature Strap
- YJACK DEW™ Psychrometer
- YJACK MANO™ Manometer
- Wireless Refrigerant Scale (P/N 68864)

YJACK VIEW™ App
Apple/App Store



YJACK VIEW™ App
Android™/Google Play



Firmware Updates



iPhone iPad



Bluetooth®

- iPhone and iPad are registered trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google Inc.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Ritchie Engineering is under license.



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 and 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 <i>NEW</i>
67066	YJACK VAC™ Vacuum Gauge <i>NEW</i>
67067	YJACK AMP™ Current Probe <i>NEW</i>
67068	YJACK MANO™ Dual Port Manometer <i>NEW</i>
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 <i>NEW</i>
67073	YJACK™ Charging & Air Kit: (2) YJACK PRESS™ Pressure Gauges, (2) YJACK™ Temperature Clamps, (2) YJACK DEW™ Psychrometers <i>NEW</i>
67074	YJACK™ Charging & Evacuation Kit: (2) YJACK PRESS™ Pressure Gauges, (2) YJACK™ Temperature Clamps, (1) YJACK VAC™ Vacuum Gauge <i>NEW</i>
40877	P51-870 TITAN® Digital Manifold with (2) YJACK™ Temperature Clamps, Ball Valve and 5/16" Hoses