

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 can also 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®.

MADE IN THE USA

YJACK PRESS™ PRESSURE GAUGE

- 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

- Wireless system vacuum measurement from atmospheric pressure to 1 micron
- Robust sensor resists pressure shock and oil contamination
- 45° x 1/4" quick 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 continuous 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

- 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
- Flexible cable connection for easy access in difficult to reach areas
- Temperature Measurement Range: -40°F to 176°F (-40°C to 80°C)
- Temperature Measurement Accuracy: +/-1.0 °C TYP**
- 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

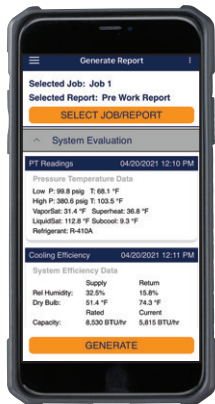


The **YELLOW JACKET® YJACK VIEW™ App** provides seamless integration with YJACK™ and P51-870 TITAN® devices offering a complete HVAC/R system diagnostic solution. Just use your YJACK™ and P51-870 TITAN® devices with your smart phone for complete system analysis.

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 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
- 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

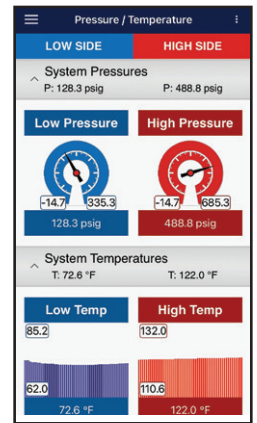


YJACK VIEW™ HIGHLIGHTS:

- 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

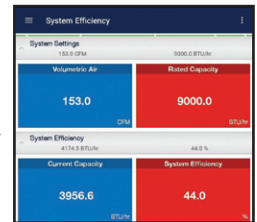
PRESSURE / TEMPERATURE

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.



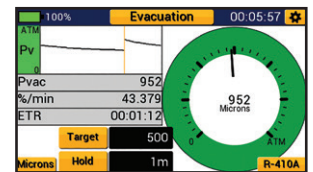
PSYCHROMETRIC SYSTEM EFFICIENCY

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.



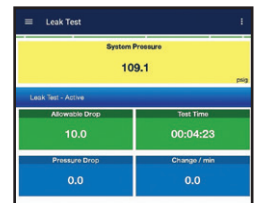
EVACUATION

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.



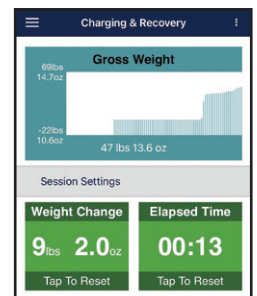
LEAK TEST

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

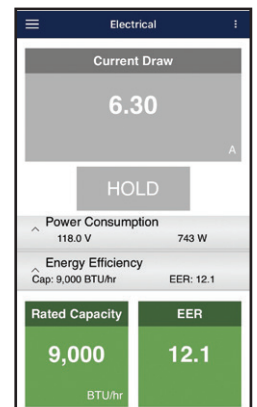
Electrical session displays readings from YJACK AMP™ Wireless Current Probe while calculating power draw and system Energy Efficiency Ratio (EER).

CREATE SERVICE REPORTS

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



67070
YJACK™ Temperature
Clamp Kit



67071
YJACK™ Temperature/
Humidity Kit



67072
YJACK™
Charging Kit



67073
YJACK™
Charging & Air
Kit



67074
YJACK™ Charging &
Evacuation Kit

YJACK VIEW™ APP SUPPORTED YELLOW JACKET® DEVICES:

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

YJACK VIEW™ App
Apple/App Store

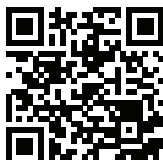


iPhone iPad

YJACK VIEW™ App
Android™/Google Play



Firmware Updates



Bluetooth®

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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 and 29465)
- (2) YJACK™ Temperature Clamps (P/N 67061)
- USB charging cable
- Backpack carrying case (P/N 10146)

MADE IN THE USA

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