

# 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**  **MADE IN THE USA**



## 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



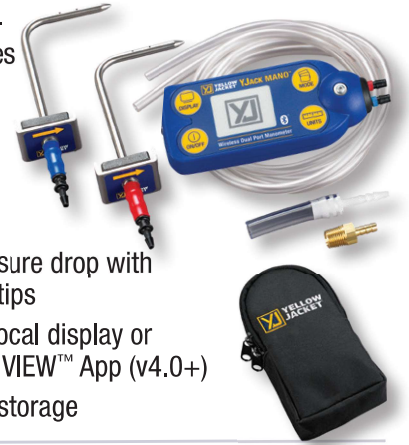
## YJACK™ Temperature Strap 67062

- 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.

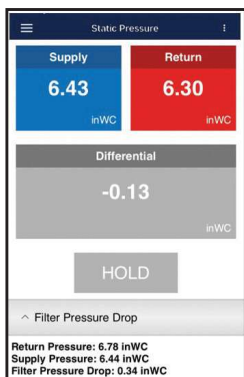


## ENHANCED DATA LOGGING

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.

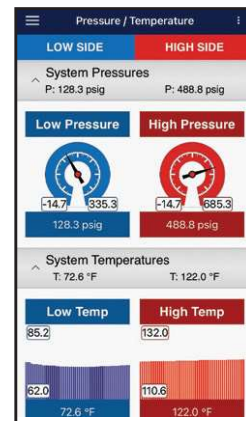
## STATIC PRESSURE SESSION NEW

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



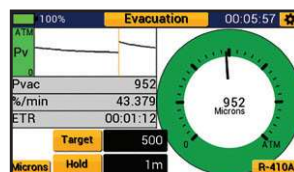
## PRESSURE / TEMPERATURE NEW

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.



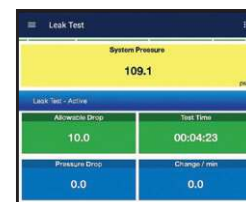
## PSYCHROMETRIC SYSTEM EFFICIENCY NEW

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.

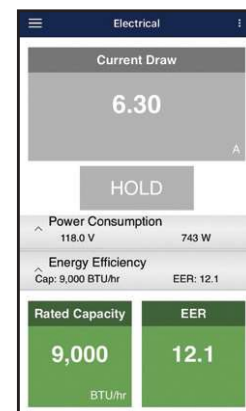


## CHARGING & RECOVERY

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™ Temperature Clamp
- YJACK PATH™ Range Extender
- YJACK™ Temperature Strap
- YJACK PRESS™ Pressure Gauge
- YJACK DEW™ Psychrometer
- YJACK VAC™ Vacuum Gauge
- YJACK MANO™ Manometer
- YJACK AMP™ Current Probe
- Wireless Refrigerant Scale (P/N 68864)

YJACK VIEW™ App  
Apple/App Store



YJACK VIEW™ App  
Android™/Google Play



Firmware Updates



iPhone iPad



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)



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