

Prestige® 2-Wire IAQ Thermostat



THX9421R5021WW/U

The Prestige® IAQ thermostat is a 2 wire high definition color touch screen thermostat, 7 day programmable and selectable for residential or light commercial use. Controls up to 4-stages of heat and 2-stages of cool in a heat pump system and up to 3-stages of heat and 2-stages of cool in a conventional system.

- Control heating, cooling and IAQ equipment with only 2 wires at the thermostat. Heating, cooling and IAQ equipment wires to the Equipment Interface Module.
- Smart Schedule - programs in seconds for any lifestyle
- Patented interview based programming and installer setup.
- RedLINK™ wireless communication.
- Increase profit per job by including RedLINK™ accessories that provide comfort and convenience. RedLINK™ accessories include the RedLINK™ Internet Gateway, Portable Comfort Control (PCC), Wireless Outdoor Sensor, Wireless Indoor Sensor, Wireless Entry/Exit Remote, Wireless Vent and Filter Boost Remote, TrueSTEAM™ humidifier with Wireless Adapter and TrueZONE® zoning panel with Wireless Adapter.
- Selectable for residential and light commercial applications. Meets commercial code and is title 24 compliant.
- Light commercial - commercial language (occupied and unoccupied), schedule holidays and custom events, remote setback, economizer and time of day.
- Delta T Alerts and Diagnostics informs customers when their system is not performing as expected with instructions to contact the dealer. Provides a sense of security and greater comfort while generating repeat business.
- All Prestige® IAQ kits come standard with a return and discharge air temperature sensor to measure Delta T.
- Alerts and User Interactions Log - Keeps a searchable history of alerts and setting changes to the thermostat to determine if there is a system malfunction or if the issue was caused by user error. Saves time in troubleshooting and points the technician in the right direction.
- Performance Logs - Keeps a history of heating and cooling performance. The performance log includes Minimum and Maximum Delta T, Minimum and Maximum Discharge Temperature, Minimum and Maximum Return Temperature, Minimum and Maximum Indoor Temperature/Humidity, Minimum and Maximum Outdoor Temperature/Humidity and Run Time. Quickly determine if the system is performing as expected and reduces service time on the job.

- Customizable Service Reminders allow dealers to remind their customers when it's time to call for service, when their warranty is expiring and to provide customized alerts.
- USB port for transferring Installer Setup, Customizable Reminders, Custom Events and Holidays to multiple thermostats.
- USB port for adding the dealer's full color business logo on the screen.
- 3 assignable outputs to control humidification, dehumidification, ventilation and a stage of heating or cooling.
- 4 assignable inputs on the Equipment Interface Module can be used with wired outdoor, indoor or discharge sensors, occupancy sensor for remote setback and dry contact devices to trip pre-packaged or custom alerts such as a full drain pan or water leak.
- Extend wireless range of the Equipment Interface Module by connecting a THM4000R1000 Wireless Adapter to the ABCD terminals.
- Tri-lingual - English, French and Spanish display options.
- Precise temperature control (+/- 1°F) for reliable and consistent temperature.
- Multiple staging options to provide comfort or energy savings.

Applications: Up to 4 Heat/2 Cool Heat Pumps; Up to 3 Heat/2 Cool Conventional Systems

Display Size: 8.06 sq in.

Terminal Designations: R, °C then RedLINK to Equipment Interface Module

Changeover: Auto or Manual

Stages: Up to 4 Heat/2 Cool Heat Pumps; Up to 3 Heat/2 Cool Conventional Systems, See Equipment Interface Module

Programmability: 7-Day Multiple Day Programming or Non-Programmable

Switch Positions (System): HEAT-OFF-COOL-AUTO-EM.HEAT

Switch Positions (Fan): AUTO-ON-CIRC-FOLLOW SCHEDULE

Setting Temperature Range: Heat: 40°F to 90°F; Cool 50°F to 99°F (Heat: 4.5°C to 32.0°C; Cool: 10°C to 37.0°C)

Operating Temperature Range: 32°F to 120°F (0°C to 48.9°C)

Humidification Setting Range: Cooling: 40 to 80% RH. Heating: 10 to 60% RH.

Dehumidification Setting Range: 40 to 80% RH.

Operating Humidity Range (% RH): 5 to 90% RH, non-condensing

Power Method: Hardwired

Supply Voltage: 18 to 30 Vac

Frequency: 50 Hz; 60 Hz

Electrical Connections: Screw terminals

Electrical Ratings: 18 to 30 Vac

Dimensions: 3 1/2 in. High, 4 1/2 in. Wide, 7/8 in. Deep (88 mm. High, 115 mm. Wide, 22 mm. Deep)

External Sensors Available: N/A

Comments: Tri-Lingual Display (selectable for English, French or Spanish)



Wireless Technology

Accessories:

THP2400A1027B/U – Black Coverplate assembly for use with the Prestige® 2-Wire IAQ Thermostat

YTHM5421R1010/U – Prestige® 2-Wire IAQ Equipment Interface Module Kit with 2 Duct Sensors

THM5421R1021/U – Prestige® 2-Wire IAQ Equipment Interface Module

THM6000R1002/U – RedLINK Internet Gateway

THM4000R1000/U – Wireless Adapter for use with RedLINK™ enabled thermostats and TrueZONE™ system

REM5000R1001/U – Portable Comfort Control

REM1000R1003/U – RedLINK Wireless Entry/Exit Remote

HVC20A1000/U – Wireless Vent and Filter Boost Remote

C7089R1013/U – Senses outdoor temperature and humidity

C7189R1004/U – Wireless Indoor Air Sensor. RedLINK™ enabled. Senses indoor temperature and humidity

Material Number	Color	Includes	Used With
THX9421R5021WW/U	Front: White, Side: White		THM5421R1021 Equipment Interface Module and RedLINK™ accessories
YTHX9421R5085WW/U	Front: White, Side: White	THX9421R5021WW Prestige® 2-Wire IAQ Thermostat, THM5421R1021 Equipment Interface Module and 2 Duct Sensors	RedLINK™ accessories
YTHX9421R5101WW/U	Front: White, Side: White	THX9421R5021WW Prestige® 2-Wire IAQ Thermostat, THM5421R1021 Equipment Interface Module, C7089R1013 Wireless Outdoor Sensor and 2 Duct Sensors	RedLINK™ accessories
YTHX9421R5127WW/U	Front: White, Side: White	THX9421R5021WW Prestige® 2-Wire IAQ Thermostat, THM5421R1021 Equipment Interface Module, THM6000R1002 RedLINK™ Internet Gateway and 2 Duct Sensors	RedLINK™ accessories

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