

Prestige® IAQ 2-Wire Comfort System



THX9421R5021SG



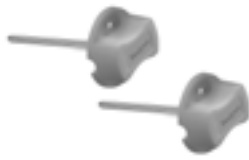
THX9421R5021BB



THX9421R5021WW or
THX9421R5021WG



THM5421R1021



C7735A1000
Discharge and
Return Air Sensors



C7089R1013

The Prestige® IAQ thermostat is a 2-wire, high-definition, color, touchscreen 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. Three sets of Universal IAQ contacts to control humidification, dehumidification, and ventilation. Four sensor inputs for wired sensors or dry contact devices. Works with the Equipment Interface Module and RedLINK® accessories including the RedLINK® Internet Gateway, Portable Comfort Control, Wireless Outdoor Sensor and Wireless Indoor Sensor.

Application: Up to 4 Heat/2 Cool Heat Pumps or Up to 3 Heat/2 Cool Conventional Systems

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

Display Size: 8.06 sq in.

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

Changeover: Auto or Manual

Stages: Up to 4 Heat / 2 Cool Heat Pump or Up to 3 Heat / 2 Cool Conventional

Electrical Connections: Screw terminals

Electrical Ratings: 18 to 30 Vac

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

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

Terminal Designations: R, RC, RH, C, W-O/B, W2-AUX1, W3-AUX2, Y, Y2, G, A-L/A, U1, U1, U2, U2, U3, U3, S1, S1, S2, S2, S3, S3, S4, S4, A, B, C, D

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

Humidification Setting Range: 10 to 60% RH.

Dehumidification Setting Range: 40 to 80% RH.

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

Temperature Setting 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)

Frequency: 50 Hz; 60 Hz

- 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.
- Increase profit per job by including RedLINK® accessories that provide comfort and convenience.
- Selectable for residential and light commercial applications. Meets commercial code and is title 24 compliant.
- Light 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.
- Keeps a history of heating and cooling performance.
- 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 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.
- 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/return sensors, occupancy sensor for remote setback and dry contact devices to trip pre-packaged or custom alerts.
- Tri-lingual - English, French and Spanish - display options.



Power Method: Hardwired

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

Used With: THM5421R1021 Equipment Interface Module and RedLINK® accessories

Accessories

THM6000R1002-RedLINK Internet Gateway

THM4000R1000-Wireless Adapter for use with RedLINK™ enabled thermostats and TrueZONE™ system

THM5421R1021-Equipment Interface Module

YTHM5421R1010-Equipment Interface Module Kit with 2 Duct Sensors.

REM1000R1003-Wireless Entry/Exit Remote

HVC20A1000-Wireless Vent and Filter Boost Remote

C7089R1013-Senses outdoor temperature and humidity to display on RedLINK™ enabled thermostats and accessories.

C7189R1004-Wireless Indoor Air Sensor.

THP2400A1027W-White Coverplate assembly for use with the Prestige® IAQ 2-Wire Thermostat.

THP2400A1027G-Gray Coverplate assembly for use with the Prestige® IAQ 2-Wire Thermostat.

THP2400A1027B-Black Coverplate assembly for use with the Prestige® IAQ 2-Wire Thermostat.

Material Number	Color	Includes
YTHX9421R5085WW/U	Front: White, Side: White	Kit contains THX9421R5021WW Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module and 2 Duct Sensors
YTHX9421R5085BB/U	Front: Black, Side: Black	Kit contains THX9421R5021BB Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module and 2 Duct Sensors
YTHX9421R5085WG/U	Front: White, Side: Gray	Kit contains THX9421R5021WG Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module and 2 Duct Sensors
YTHX9421R5085SG/U	Front: Silver, Side: Gray	Kit contains THX9421R5021SG Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module and 2 Duct Sensors
YTHX9421R5101WW/U	Front: White, Side: White	Kit contains THX9421R5021WW Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module, C7089R1013 Wireless Outdoor Sensor and 2 Duct Sensors
YTHX9421R5101BB/U	Front: Black, Side: Black	Kit contains THX9421R5021BB Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module, C7089R1013 Wireless Outdoor Sensor and 2 Duct Sensors
YTHX9421R5101WG/U	Front: White, Side: Gray	Kit contains THX9421R5021WG Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module, C7089R1013 Wireless Outdoor Sensor and 2 Duct Sensors
YTHX9421R5101SG/U	Front: Silver, Side: Gray	Kit contains THX9421R5021SG Prestige® IAQ 2-Wire Thermostat, THM5421R1021 Equipment Interface Module, C7089R1013 Wireless Outdoor Sensor and 2 Duct Sensors

Programmable Thermostats

Prestige® IAQ 2-Wire Thermostat



THX9421R5021WW or
THX9421R5021WG



THX9421R5021BB



THX9421R5021SG

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- 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.
- Selectable for residential and light commercial applications. Meets commercial code and is title 24 compliant
- Light 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.
- All Prestige® IAQ kits come standard with a return and discharge air temperature sensor to measure Delta T.
- 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.
- Keeps a history of heating and cooling performance.
- 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 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/return sensors, occupancy sensor for remote setback and dry contact devices to trip pre-packaged or custom alerts.
- Tri-lingual - English, French and Spanish - display options.



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Electrical Ratings: 18 to 30 Vac

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

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Dehumidification Setting Range: 40 to 80% RH.

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Power Method: Hardwired

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

Accessories:

REM5000R1001-Portable Comfort Control uses RedLINK™ to sense and control room temperature anywhere in the home. Works in both zoned and non-zoned applications.

C7089R1013-Senses outdoor temperature and humidity to display on RedLINK™ enabled thermostats and accessories.

THM6000R1002-RedLINK Internet Gateway

THM4000R1000-Wireless Adapter for use with RedLINK™ enabled thermostats and TrueZONE™ system

THM5421R1021-Equipment Interface Module

YTHM5421R1010-Equipment Interface Module Kit with 2 Duct Sensors.

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THP2400A1027G-Gray Coverplate assembly for use with the Prestige® IAQ 2-Wire Thermostat.

THP2400A1027B-Black Coverplate assembly for use with the Prestige® IAQ 2-Wire Thermostat.

Material Number	Color	Switch Positions (System)	Switch Positions (Fan)	Used With
THX9421R5021WW/U	Front: White, Side: White	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC-FOLLOW SCHEDULE	THM5421R1021 Equipment Interface Module and RedLINK® accessories
THX9421R5021BB/U	Front: Black, Side: Black	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC-FOLLOW SCHEDULE	THM5421R1021 Equipment Interface Module and RedLINK® accessories
THX9421R5021WG/U	Front: White, Side: Gray	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC-FOLLOW SCHEDULE	THM5421R1021 Equipment Interface Module and RedLINK® accessories
THX9421R5021SG/U	Front: Silver, Side: Gray	HEAT-OFF-COOL-AUTO-EM.HEAT	AUTO-ON-CIRC-FOLLOW SCHEDULE	THM5421R1021 Equipment Interface Module and RedLINK® accessories