



HZ322 TrueZONE® Panel

SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)			
HZ322	Qty.		Notes
HZ322K (Kit)	Qty.		Notes
Approval			
Service			
Tag No.			



FEATURES

- Intuitive installer setup with easy-to-follow, digital display uses real language to guide installer through configuration
- Universal application for any HVAC system using conventional thermostat wiring (R W Y G C etc.)
- Standard checkout procedure ensures correct operation before leaving the job
- Robust push terminals for up to two wires per terminal
- Common-sense LEDs indicate stage of heat and damper state
- Control of two or three wire dampers with open or closed logic
- Variable-speed fan control lowers fan speed when one zone is calling for cooling
- Discharge air temperature down-stages equipment when near high or low limit

APPLICATION

The HZ322 TrueZONE® panel controls:

- Conventional gas, oil, or electric forced-air systems up to 2 stages heat and 2 stages cool;
- Heat pump systems with single stage compressor and auxiliary heat;
- 2 or 3 forced-air zones with wired thermostats, or wireless thermostats using optional wireless adaptor.



SPECIFICATIONS

Input Ratings:

Voltage: 18-30 VAC 50/60 Hz powered by a transformer of 40 VA or more

Current Draw:

Zone Panel: 7.5 VA max. All VA specifications at 24 VAC.

Wiring: 18- or 20-gauge solid (not stranded) wire

Humidity Ratings: 5 % to 90 % RH non-condensing

Temperature Ratings:

Shipping: -20° to 150 °F (-29° to 66 °C)
 Operating: -40° to 165 °F (-40° to 74 °C)

Dimensions: See Fig. 1.

Mounting:

Mounts with either 2 screws at center line to mount onto 2 x 4, or with 4 screws at corners for wall mount.

Recommended Thermostats: See Table 1.

Recommended Dampers: See Tables 2 and 3.
 For maximum number of dampers per zone see Table 4.

Accessories:

See Table 5.

Emissions:

Complies with FCC Class B, part 15 requirements.

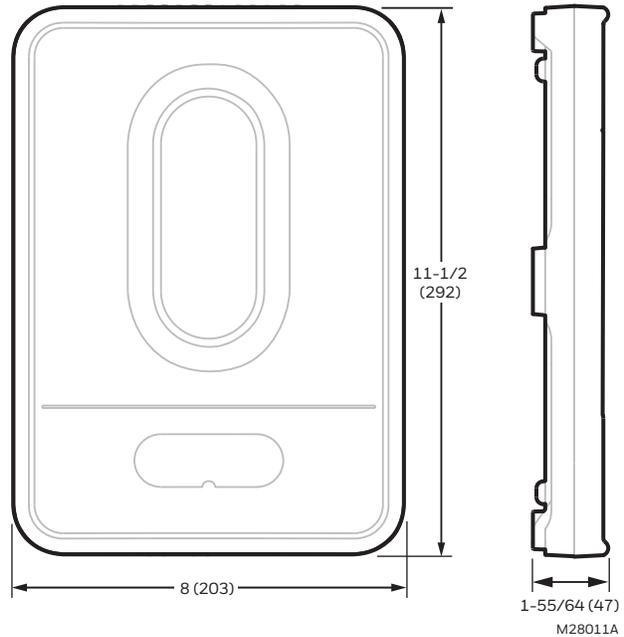


Fig. 1. HZ322 TrueZONE panel dimensions in in. (mm).

Table 1. Recommended thermostats.

RedLINK thermostats:	
TH8110R1008 (wired or wireless*) Single stage heat and cooling. No IAQ.	
TH8320R1003 (wired or wireless*) 2H/2C heat pump without aux, 2H/1C with AUX or 2H/2C conventional. No IAQ.	
TH8321R1001 (wired or wireless*) 2H/2C heat pump without aux, 2H/1C with AUX or 2H/2C conventional. Hum, Dehum, or Vent control when used as wired thermostat, or wireless to a THM5421R1021 EIM. EIM wired to one of the zones.	
THX9421R5021 Prestige (2-wire R and C. Wireless to THM4000R/HZ322 or THM5421R1021 EIM.*) 2H/2C heat pump without aux, 2H/1C with AUX or 2H/2C conventional. Hum, Dehum, and Vent control when used with THM5421R1021 EIM. EIM wired to one of the zones.	
TH6320R1004 programmable FocusPRO (wireless*) 2H/2C heat pump without aux, 2H/1C with AUX or 2H/2C conventional. No IAQ.	
TH5320R1002 non-programmable FocusPRO (wireless*) 2H/2C heat pump without aux, 2H/1C with AUX or 2H/2C conventional. No IAQ.	
Wired thermostat:	
Battery powered, hard-wired, or mechanical	The HZ322 is compatible with most standard thermostats. The HZ322 allows you to choose stage 2 (and stage 3) control to be by thermostat, timer, or % of zones. If you want the thermostats to control staging, multi-stage thermostats are required.
Power stealing or phantom voltage (Lyric round, etc.)	We do not recommend using thermostats that operate on phantom voltage or power-stealing mode with the HZ322. Some of these models have an optional C wire. Models tested with a C wire worked correctly with the HZ322.
* RedLINK models without IAQ control need a THM4000R1000 wireless adaptor. One adaptor can be used for up to 3 RedLINK thermostats on HZ322. If IAQ control is required from the TH8321R1001 or THX9421R5021 model, a THM5421R1021 is required for the thermostat controlling IAQ equipment. That EIM wires to one of the zones on the HZ322.	

Table 2. Recommended residential dampers.

Type	Actuation	Round	Rectangular
Zone	Spring-open/power-closed	ARD	ZD
	Power-open/power-closed	RRD	
Bypass	Barometric	CPRD	None

Table 3. Recommended commercial dampers.

Type	Actuation	Round	Rectangular
Zone	Power-open/power-closed	MARD	D2 with ML6161A2009*
Bypass	Power-open/power-closed	MARD with SPC	D2 with ML6161A2009* and SPC

*Or equivalent damper and actuator.

Table 4. Maximum dampers*.

Ambient Temp.	Maximum Damper VA per Zone
100°F (38°C)	28.8
160°F (71°C)	16.8

* Use an SDCR (Secondary Damper Control Relay) for additional dampers.
 • Maximum dampers per panel is limited by transformer size.
 • Ensure transformer is large enough to power the panel (7.5 VA) and dampers.

Table 5. Accessories.

Description	Part Number
40 VA transformer	AT140A1042*
75 VA transformer	AT175A1008
Discharge air temperature sensor (DATS)	C7735A1000*
Outdoor Air Sensor (wired)	C7089U1006
Outdoor Air Sensor (wired)	C7089R1013 (THM4000R1000 wireless adaptor required)
Wireless adaptor	THM4000R1000
Secondary damper control relay	SDCR

*Included in HZ322K kit.

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www.resideo.com

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