# general QUESTIONS

### What are the differences between the available TrueZONE® models?

- The **HZ311 TrueZONE® panel** controls up to 3 zones on single stage 1 heat/1 cool systems.
- The **HZ322 TrueZONE panel** controls up to 3 zones of heat pump or conventional equipment with 1 or 2 stages heat and cool up to 2H/2C systems.
- The **HZ432 TrueZONE panel** controls from 2 to 32 zones of heat pump, conventional or dual fuel equipment with up to 3 heat/2 cool systems.

### What type of thermostat do I need to use?

TrueZONE panels work with virtually any Honeywell and other brand single-stage, heat pump or multi-stage thermostats.

# How does the wiring and installation differ from existing panels?

Push-in terminals with easy-to-read, color-coded labels offer quick wire installation with no screws. Simply insert the wire into the terminal and press release button to remove the wire. Pressing the release button is not necessary when inserting the wire. Numerous wire paths allow wires to be routed to terminals from the sides, top and bottom of panel. Wires can even be run behind the panel, which makes installation clean and professional looking. Anchor points are provided for zip ties for clean installation.

### What size of transformer can be used with the panels?

TrueZONE kits ship with a 40 VA transformer; however, a 75 VA transformer may be used on all new panels to control multiple dampers per zone.

### Will the panels work with variable speed blowers?

TrueZONE panels are compatible with variable speed blowers. By using the DS/BK terminal, blower speed is reduced when one zone is calling.

#### What is different about the terminal blocks on the panels?

TrueZONE panels use push-in terminal blocks that wire in literally half the time compared to screw terminals - with no screwdriver required. Plus, wires lock in to the terminals for a tight fit. If removal is necessary, simply push down on the top of the terminal block to release. Color-coded labels clearly indicate the function of each terminal block.

### What type of support is available if I need help?

Honeywell backs your zoning efforts with a 5-year warranty, a dedicated toll-free zoning hotline (1-800-TAT-TEMP), local zoning specialists, training, free literature and more.

### What is advanced setup and is it required?

Most installations can be setup in four easy steps:

- 1) Select equipment type
- 2) Select heat/cool stages
- 3) Select number of zones
- 4) Select stage control by zone

Advanced setup allows the installer to change default settings. In most applications, advanced setup is not necessary.

### general QUESTIONS continued

### What are the copper-colored pads near each wiring terminal?

Use these pads to check for voltage with a voltmeter instead of placing the probe inside the terminals.

### What is the best place to mount the panels?

All panels are eight inches wide, giving the installer the ability to mount TrueZONE® panels anywhere – on the return duct, studs or wall next to the system. Plus, clearance is provided for a hex driver so virtually any screw can be used to mount.

## What is the minimum and maximum operating temperature of the panels?

The temperature rating is from -40° to 165° F, which is the highest ambient temperature rating of any zone panel on the market. TrueZONE panels operate flawlessly in hot attics. Plus, all electronics components are surface-mounted and completely enclosed, ensuring protection and durability.

### How do the DS/BK terminals on the panels operate?

The DS/BK terminal is used to lower the fan speed of a variable speed blower when few zones call. This terminal is wired to DS, BK, ODD or DEHUM on the equipment. On the HZ311 and HZ322 this feature will reduce blower speed when one zone is calling for cooling. On the HZ432 this feature will reduce blower speed when one zone is calling

unless there are more than four zones. When more than four zones are present, the blower speed will be reduced when 25 percent or fewer zones are calling. When low fan speed is desired by the panel there is 0 Vac at the DS/BK terminal, and when high fan speed is desired there is 24 Vac at the DS/BK terminal.

### How many dampers can I have in one zone with panels?

To determine the maximum number of dampers per zone, divide the VA of the damper actuator by  $28.8 \text{ VA} (100^{\circ} \text{ F})$  or  $16.8 \text{ VA} (160^{\circ} \text{ F})$ . To size the system transformer, add the VA of all dampers in the system to the VA draw of the panel (HZ311 – 6.25 VA, HZ322 – 10 VA, HZ432 – 10 VA).



#### **Learn More**

Call toll-free 1-800-328-5111 visit http://yourhome.honeywell.com, or e-mail info@honeywell.com.

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# TrueZONE® Panel Frequently Asked Questions





Increase Your Understanding of TrueZONE With These Answers to Common Questions

THERMOSTATS ZONING AIR CLEANERS HUMIDIFIERS DEHUMIDIFIERS ULTRAVIOLET SYSTEMS VENTILATION WATER SOLUTIONS

# TrueZONE® Panels MODEL SPECIFIC QUESTIONS





### TrueZONE® HZ432

### How does the HZ432 differ from the TZ-4?

The TrueZONE® HZ432 replaces the TZ-4 panel. The HZ432 is designed to install faster and reduce the number of callbacks with:

- Push-in terminals Room for two wires per terminal
- Quick-install menu No dip switches, pots or jumpers
- Advanced configuration options provide greater flexibility to installer
- Second- and third-stage timers can be set individually
- Purge time can be set to 2, 3.5 or 5 minutes
- Auto changeover time can be set to 15, 20 or 30 minutes
- DATS sensor can be disabled
- DATS high limit can be set from 110° to 180° F
- DATS low limit can be set from 30° to 60° F
- Second-stage auxiliary heat lockout with OT sensor
- Variable speed blower control
- Illuminated LEDs for each stage of equipment
- Damper LEDs indicate damper position
- Easy-to-read, color-coded labeling
- Convenient wire routing making for cleaner installation
- Dual fuel with droop control (fossil fuel changeover with second-stage call)
- More narrow with modern look
- Covered electronics prevents damage and creates attractive appearance
- Standardized checkout procedure guarantees consistent installation
- Easier to see and use emergency heat function
- DATS displays onscreen if connected
- Individual zone circuit breakers for easier troubleshooting and more dampers per zone
- Purge light blinks for only two minutes if no DATS is present

### How does the dual fuel feature in the HZ432 work?

The HZ432 controls heat pump and fossil fuel equipment without the need for a separate fossil fuel kit. This function requires the use of the C7089U outdoor temperature sensor. The balance point is set from 0° to 50° F in the advanced configuration. When the dual fuel changeover is configured for OT, the panel will use the heat pump when the outdoor temperature is above the configured balance point. The panel will use fossil fuel when the outdoor temperature is below the configured balance point. When the dual fuel changeover is configured for multistage, the panel will also switch over at balance point, however when the OT temperature is above the balance point, the panel will switch to fossil fuel if there is a call for second stage heat. The panel will stay in fossil fuel mode for three hours before switching back to the heat pump.

### How do you add more than four zones to the HZ432?

The HZ432 controls up to four zones with one panel. You can expand up to 32 zones by adding TAZ-4 panels.

### TrueZONE® HZ322 and HZ432

### How are the panels configured with no dip switches?

An easy-to-follow, digital display uses real language to guide installer through four simple steps for system setup:

- 1) Select equipment type
- 2) Select heat/cool stages
- 3) Select number of zones
- 4) Select stage control

### How does the checkout process work?

TrueZONE® panels have a checkout procedure that standardizes the checkout process so every installer checks out in the same way every time and ensures that all zones are operating correctly before leaving the jobsite. Plus, only one installer is needed for checkout because the entire zoning system can be verified from the panel.

### What is multi-stage OT temp lockout?

When the panel is configured for multi-stage equipment but not dual fuel equipment, an outdoor temperature sensor can be used to lock out second- and third-stage heat when the outdoor temperature is above the OT lockout temp.

### How does the stage timer work?

The panels are set to upstage after 5 to 60 minutes. Each zone has its own timer to keep track of how long it has been calling. The zone control panel stages the equipment based on the zone that is calling with the highest stage. This patented feature allows the panel to downstage as needed by zone demand. Other zone control panels will hit the highest stage and remain there for long periods of time.

### What does the DATS multistage feature do?

If the discharge air becomes close to the high or low limit, the panel will only use the first stage of equipment. This reduces equipment cycling and increases comfort.

### What are the different ways I can control multi-stage equipment with TrueZONE?

Staged HVAC equipment (i.e. heat pumps, multi-stage air conditioners and furnaces) can be controlled three ways. A multi-stage or heat pump thermostat can be used to energize second- and third-stage (HZ432) through the W2, W3 and Y2 terminals. A stage timer can be used to upstage the equipment. Typically a single-stage thermostat is used in this case; second- and third-stages can be controlled through different methods. Percentage of zones calling energizes second-stage cooling when 50 percent or more zones are calling. This feature energizes second-stage heat when more than 25 percent of zones are calling. Third-stage of heat is energized when more than 50 percent of zones are calling. When configuring the panel, staging can be set up the same or independently by each zone.



### TrueZONE® HZ322

### How does the HZ322 differ from the EMM-3U?

The TrueZONE® HZ322 replaces the EMM-3U panel. The HZ322 is designed to install faster and reduce the number of callbacks with:

- Push-in terminals Room for two wires per terminal
- Quick-install menu No dip switches, pots or jumpers
- Advanced configuration options provide greater flexibility to installer
- Purge time can be set to 2, 3.5 or 5 minutes
- Auto changeover time can be set to 15, 20 or 30 minutes
- DATS sensor can be disabled
- DATS high limit can be set from 110° to 180° F
- DATS low limit can be set from 30° to 60° F
- Second stage can be controlled by thermostat, timer or percentage of zones calling
- Variable speed blower control
- Illuminated LEDs for each stage of equipment
- Damper LEDs indicate damper position
- Easy-to-read, color-coded labeling
- Convenient wire routing making for cleaner installation
- More narrow with modern look
- Standardized checkout procedure guarantees consistent installation
- Easier to see and use emergency heat function
- DATS displays onscreen if connected
- Individual zone circuit breakers for easier troubleshooting and more dampers per zone
- Purge light blinks for only two minutes if no DATS is present



### **TrueZONE HZ311**

### How does the HZ311 differ from the EMM-3?

The TrueCOMFORT HZ311 replaces the EMM-3 panel. The HZ311 is designed to install faster and reduce the number of callbacks with:  $\frac{1}{2} \frac{1}{2} \frac{1$ 

- Push-in terminals Room for two wires per terminal
- Variable speed blower control
- Damper LEDs indicate damper positionEasy-to-read, color-coded labeling
- Convenient wire routing making for cleaner installation
- More narrow with modern look
- Covered electronics prevents damage and creates attractive appearance
- Purge light blinks for only two minutes if no DATS is present
- Individual zone circuit breakers for easier troubleshooting and more dampers per zone
- The panel will not turn on the fan during purge

