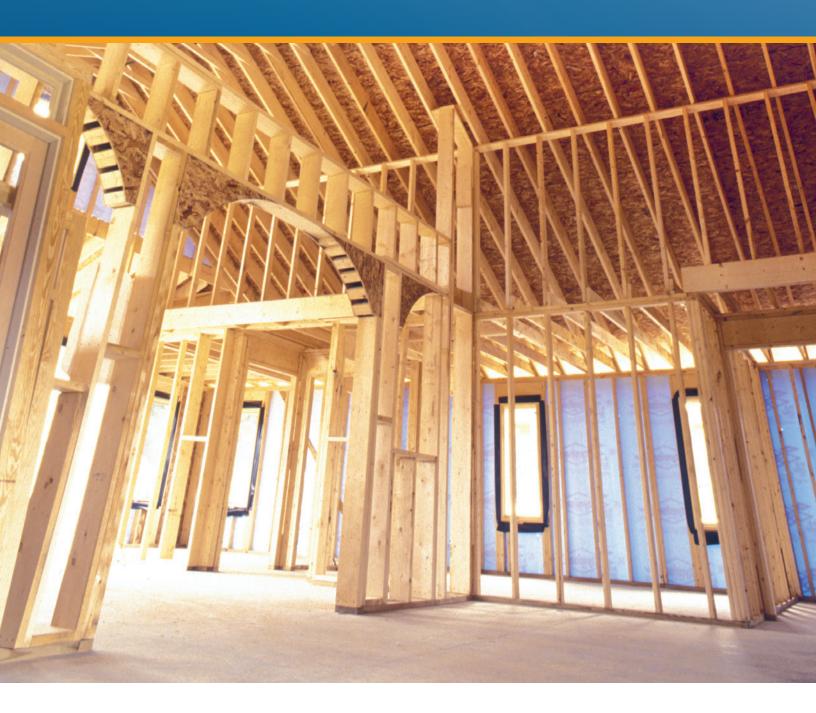
Residential Zoning Product Guide Zoned Comfort Control™





The complete lineup of whole-home residential zoning products. Designed for simpler installation, durable operation and more profitable jobs.

Find the right zoning product for any application.

The Need & Solution

Industry Need

One of the largest issues confronted by homeowners is uneven temperatures throughout the house. Zoning is an essential component of today's energy efficient homes. Well-designed zoning systems provide reliable operation and years of optimal comfort and energy efficiency for your customers.

Aprilaire Solution

Aprilaire Zoned Comfort Control $^{\text{TM}}$ is designed for new construction and provides the components needed for simple, reliable and profitable installs.

- + **Simple:** Aprilaire zone panels feature simple layouts for fast and easy installation, wiring and set up. This reduces errors and call backs on zoning jobs. It also minimizes the amount of time your crews spend on each job.
- + **Reliable:** Aprilaire zone panels and dampers have been designed to withstand the temperature extremes of attic installations. Rigorous testing of all components assures that your company is able to concentrate on new business and not on call backs.
- + **Profitable:** Easy installations mean less training needed for your install crews. Faster and more accurate installations means reduced callbacks. All of these things mean greater profits for your business.



Applications & Features

Any Application

Aprilaire Zoned Comfort Control $^{\text{m}}$ offers a complete line of zone panels, dampers and controls to provide the exact solution for any application.

Zone options:

2-, 3- and 4-zone panels allow you to purchase the exact number of zones needed for each job.

Function options:

Single stage heat/cool, universal multi-stage and heat pump options available.

APPLICATION	PART #	CAPABILITY	# OF ZONES	NOTES
Single Stage Heat/Cool	6202	1 Heat 1 Cool	Up to 2 Zones	New Design
Single Stage Heat/Cool	6203	1 Heat 1 Cool	Up to 3 Zones	New Design
Single Stage Heat Pump	6302	2 Heat 1 Cool	Up to 2 Zones	New Design, New Addition to Product Line-up
Single Stage Heat Pump	6303	2 Heat 1 Cool	Up to 3 Zones	New Design
Multi-Stage Universal	6403	2 Heat 2 Cool H/C or 4 Heat 2 Cool Heat Pump	Up to 3 Zones	New Design, New Addition to Product Line-up
Multi-Stage Universal	6404	2 Heat 2 Cool H/C or 4 Heat 2 Cool Heat Pump	Up to 4 Zones	New Design, Expandable up to 12 Zones

1st digit	6	Zone Panel		
	2	Heat/Cool system Single Stage		
2nd digit	3	Heat Pump System Single stage		
	4	Universal Multi-Stage		
	02	Up to 2 Zones		
3rd & 4th Digits	03	Up to 3 Zones		
	04	Up to 4 Zones		

Easy-to-understand part-numbering system

Aprilaire Exclusive Zone Panel Features:

- + Compatible with wireless outdoor temperature sensor (Models 6403 & 6404 only)
- + Controls high and low balance point from one outdoor temperature senor
- + Time delay override to simplify check out and troubleshooting
- + Resettable fuses for each zone's dampers
- + Multiple mounting and wire run options
- + Short cycle protection
- + Built in fan purge
- + 5-year warranty



Zone Panels – Intuitive, Simple

Intuitive Design

+ Visual indicators and clear terminal designations allow installers to easily understand how to wire and set up the system with minimal training and costs

Wiring Simplicity

- + Push terminals for quick connections
- + Wire openings on back and side provide simple organization and tracking of wires to each zone (dampers and thermostat)
- + Pre-installed RC/RH jumper

Visible Terminal Designations

- + Large, easy to see terminal designations
- + Zones delineated with color, clearly indicating damper and thermostat combinations

Expandable Zones (up to 12)

Simply purchase Model 6401 Expansion Panel (2-zone panel) and expand the number of zones (Model 6404)

Vacation Mode

Press button and automatically manage all zones to preset vacation schedule

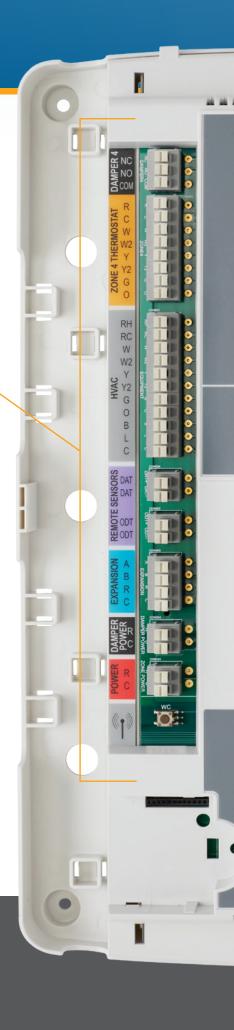
Emergency Heat

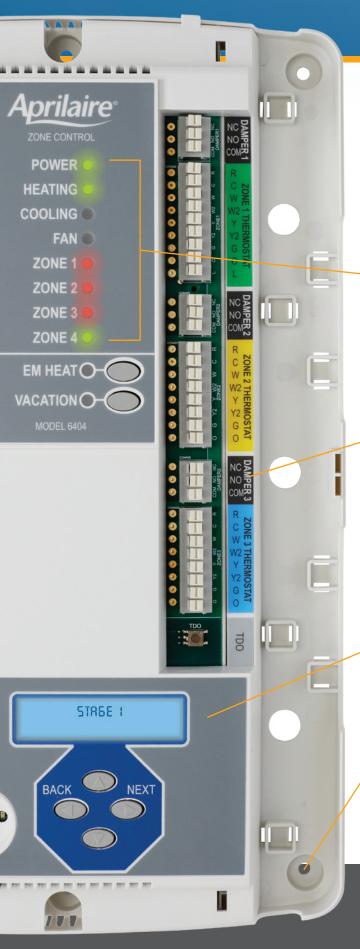
Automatically engage emergency heat across all zones in heat pump system

Outdoor Temp

Wired or wireless ODT Optional (Model 8056)

Installed with simple push button assimilation process (Models 6403 & 6404 only)





Visual Indicators

- + Easy-to-see LED indicators provide status of equipment and zones
- + Indicators visible without removing cover

Testing and Troubleshooting

+ Easily compare the zone calling LED light to the damper blade position indicator, quick and easy troubleshooting

Simple Set Up and Check Out

- + LED lights validate zone calling and operation of heating/cooling equipment
- + LCD screen and push buttons step through set up; eliminating hard-to-see jumpers (universal panels only)

Dampers

+ Normally Open and Normally Closed dampers can be controlled (2-wire and 3-wire dampers)

Zone Weighting

+ Zone Weighting allows more control when staging based on the number of zones calling. Each zone can be assigned a weight; for example a zone can be weighted to count as 2 zones when deciding to stage up.

LCD Screen and Push Buttons

+ Step-through setup; eliminating hard-to-see jumpers and DIP switches (universal panels only)

Enclosure and Mounting

- + Robust mounting plate can be installed easily on stud wall or flat surface (including return plenum)
- + Cover snaps on/off, providing access without exposing PCB

Model 6404 Shown: 4-Zone Universal Multistage

Aprilaire offers a complete line of zone panels.

Zone Dampers

WORLD-CLASS QUALITY

- Rigorous cycle testing assures years of reliable performance
- Tested in extreme temperatures (over 140° F) to simulate attic summer conditions
- * Actuator design proven successful in thousands of system installs
- Packaging and product design for rough handling exceed shipping requirements of the ISTA 1A drop test
- Five-year warranty

Fail-Safe Design

+ Zone damper normally open; powers closed, allowing conditioned air to continue to flow if mechanical motor reaches end of service life

Blade Positioning Indicator

- + Orange indicator easy to read from a distance
- + Open and closed position clearly indicated
- + Orange position indicator on both sides of damper
- + Simple, visual system check and troubleshooting

Flex Duct Integration

- + Raised actuator allows flex duct to encase entire damper
- + Damper shell extended beyond actuator to provide ample space to secure flex duct (zip tie)



Rosition Rosition

Normally Op

Closed











Rectangula



Bypass Settings

- + Thumbscrew adjustable, no tools required
- + Factory set to 0% bypass
- + Standard setting indicated by \triangle , approximate 15% bleed
- + Controlled Pressure Relief is infinitely adjustable for peak system performance

One Piece Assembly

- + Remove motor and actuator as one assembly
- + Assembly replacement while damper shell remains in duct
- + Simple, labor-saving design

Attic Insulation Protection

+ Insulation proof – all openings secured preventing spray in insulation from entering actuator and causing problems

Round Damper Blade Design

- + Gasket material minimizes air bypass when blade is closed
- + Common plastic bearing stabilizes damper blade
- + Hex shaft allows secure blade fastening

Robust Motor Design

- + Start-up torque dampened with torsion lever for extended life
- + Motor covered for improved appearance, cover tightly secured
- + Life tested to extreme usage in attic temperatures

2-Wire Connection

+ Simplifies installation - fewer wires to organize

Ventilation
(black label)



NORMALLY-CLOSED
POWER OPEN

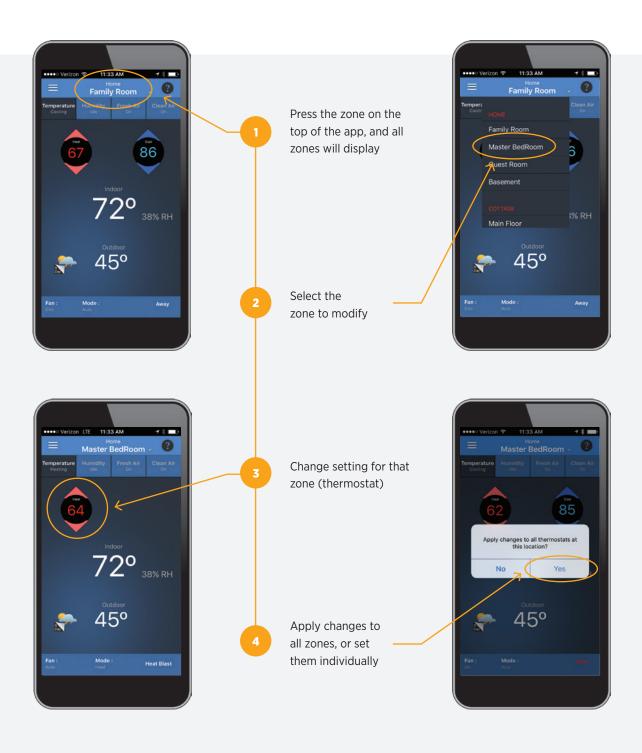


(white label)

NORMALLY-OPEN POWER CLOSED

Wi-Fi IAQ Zoned Comfort Control

Install Aprilaire Wi-Fi thermostats with IAQ Control and control all zones from one interface. Consumers no longer need to walk to each thermostat to make changes. All thermostats are connected through the same app, making changes convenient and simple. The thermostats and zone boards wire the same as traditional products and all Aprilaire Wi-Fi products have this capability.



Aprilaire Thermostats & Zoning Accessories

Thermostat Overview

	WI-FI			STANDARD		
8900	WiFi	MODELS 8910W & 8920W	+ Full color 7in. screen, perfect for the main zone. (Model 8920W) All control options on one screen.	Action Action	MODEL 8910	+ Touch screen interface + Full IAQ device control
8600	Andrew Wiffi	MODEL 8620W	+ Easy-to-use touch screen designed for temperature and humidity control.	Pager Pa	MODEL 8620	+ Real language programing + Custom dealer imprintable covers
8400	WiFi	MODEL 8476W	+ Temperature control. Perfect for any zone.	Notice 1	MODELS 8444, 8446, 8448, 8463, 8465, 8466, 8476	+ Heat/cool, heat pump and universal models + Custom dealer imprintable covers

Specialty Thermostats

Wireless

Perfect for Zoning Applications

MODEL 8710



Intelligent Zoning

Residential or Light Commercial

MODEL 8570



Home Automation

Communicating Thermostat MODEL 8800 Wi-Fi Models: 8810, 8820, 8830, 8840



Accessory Overview

Model 8051 Flush Mount Sensor

+ Provides opportunity to remotely mount the thermostat out of view

Model 8052 Outdoor/Duct Sensor

+ Designed for outdoor or duct installation (including with zone control panels)

Model 8053 Surface Mount Sensor

+ Provides opportunity to remotely mount the thermostat out of view

Model 8028 Damper Power Distribution Panel

Model 8022 3-wire to 4-wire Adapter

- + Any two thermostat
 equipment terminals can
 be combined with the
 diode pair (not 24V hot or
 common) and wired to the
 Model 8022 through one
 wire avoiding the need to
 run new thermostat cable
- + Provides an extra wire without pulling new

Model 6401 Expansion Panel (6404 only)

+ Add 2 additional zones

Model 8056 Wireless Outdoor Temperature Sensor (6403 and 6404 only)

	MODEL	Specifications	
6404/6403	Aprilaire To the state of the	6404 – 4 Zone Universal M 6403 – 3 Zone Universal M Overall Dimensions Humidity Operating Temperature Shipping Temperature Voltage Maximum Current	
6303/6302	Aprilaire Frame Frame	6303 - 3 Zone heat pump 6302 - 2 Zone heat pump Overall Dimensions Humidity Operating Temperature Shipping Temperature Voltage Maximum Current Warranty	9.66" H x 8.63" W x 1.86" L 5% - 90% RH, non-condensing 32°F - 158°F -40°F - 180°F 18-30VAC 50/60 Hz Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded)wire 5 years
6203/6202	Aprilate Aprilate Asserting As	6203 - 3 Zone Heat/Cool 6202 - 2 Zone Heat/Cool Overall Dimensions Humidity Operating Temperature Shipping Temperature Voltage Maximum Current Warranty	9.66" H x 8.63" W x 1.86" L 5% - 90% RH, non-condensing 32°F - 158°F -40°F - 180°F 18-30VAC 50/60 Hz Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded)wire 5 years

All panels feature:

- + COVERED CIRCUIT BOARDS -----> Protection from damage and clean appearance
- + COLOR CODED TERMINAL LABELS -----> Simple error-free wiring
- + PUSH TERMINALS -----> Fast & easy wiring
- + MULTIPLE WIRING PATHS & MOUNTING OPTIONS -----> Flexible installation options with clean layout

Model Drawings with Specifications Model-Specific Features & Benefits + 2 Heat 2 cool or 4 heat 2 cool (heat pump) + LCD for simple setup, check out and operation status 14.72 [374] + LEDs (Red = Closed Zone) (Green = Open Zone) + Easy access emergency buttons for heat & vacation mode + Can be expanded to 12 zones (Model 6404) + Compatible with Model 8506 out door temperature sensor - 8.85 [225] 1.86 [47] + 2 Heat 1 cool single stage + Compact design 9.66 [245] + Simple layout + Easy-to-use push connectors + Resettable fuses + LEDs (Red = Closed Zone) (Green = Open Zone) + Ideal for new construction 8.63 [219] 90-2153 1.86 [47] -+ 1 Heat 1 cool single stage + Compact design + Simple layout 9.66 [245] + Easy-to-use push connectors + Resettable fuses + LEDs (Red = Closed Zone) (Green = Open Zone) + Ideal for new construction 8.63 [219] 90-2108



**Rectangular dimension = nominal width + 3.5" 10-day lead time for shaded items

*Round damper dimension = nominal diameter + 4.5"