

Model 6404 Zoned Comfort Control Panel

EVERY JOB IS DIFFERENT

Aprilaire offers flexibility for all your zoned comfort control applications by providing you with all the features you demand.

Accounting for excess system pressure is a requirement of any zone control system and we know there are many options for pressure relief. That is why Aprilaire supports all the popular options. You can choose from Aprilaire's exclusive 'Controlled Pressure Relief' method (which requires no bypass damper), using a bypass damper along with plenum temperature control, or the oversized ductwork method. (See our design guide for details.)

THE QUALITY AND SUPPORT OF APRILAIRE

The Model 6404 Zoned Comfort Control panel offers you the quality and support you've come to expect from Aprilaire. You can count on 24-hour shipping, great technical and sales support and the most reliable dampers on the market.



MODEL 6404 SINGLE OR MULTI-STAGE HEAT/COOL OR HEAT PUMP 4-ZONE CONTROL PANEL EXPANDABLE TO 12 ZONES

CONSUMER BENEFITS

ANY ZONE SETS MODE

• Provides true independent control for each zone

CONTINUOUS FAN BY ZONE

Individual zone thermostats can call for fan operation

VACATION OPERATION

Allows system to operate in setback from the thermostat designated
 Zone 1 when leaving for extended periods

ZONE CHANGEOVER BASED ON TIME

 If calls for opposite modes exist, the control panel will alternate to satisfy each call

LED STATUS INDICATORS

• Visible through the cover, these allow your customer to aid in troubleshooting

FAN PURGE

Assures air is directed to last zone(s) calling

SHORT CYCLE PROTECTION

• Protects the HVAC equipment from too frequent cycles

MAINTENANCE FREE

• No maintenance or adjustments needed after installation

CONTRACTOR BENEFITS

PLENUM TEMPERATURE CONTROL (ADJUSTABLE)

 Protects equipment from excessive high and low temperatures caused by reduced airflow or bypassing to the return

SINGLE CONTROL FOR ALL EQUIPMENT TYPES

 Operates single or multi-stage heat/cool or heat pump systems up to 12 zones

THERMOSTAT FLEXIBILITY

 Use single or multi-stage heat/cool or heat pump thermostats depending on the application. Simple 4-wire heat/cool thermostats can control any type of equipment.

LED STATUS INDICATORS (VISIBLE THROUGH COVER)

· Simplifies start up and troubleshooting

SELECTABLE STAGING OPTIONS

Stage by time, thermostat input or number of zones calling

TIME DELAY OVERRIDE

Speeds checkout for the installer

WORKS WITH 2 OR 3 WIRE DAMPERS

 Compatibility if you are changing out an old panel with 3-wire dampers

ADJUSTABLE PURGE TIMING

. Compatibility with all brands of equipment

ACCESSORY TERMINALS

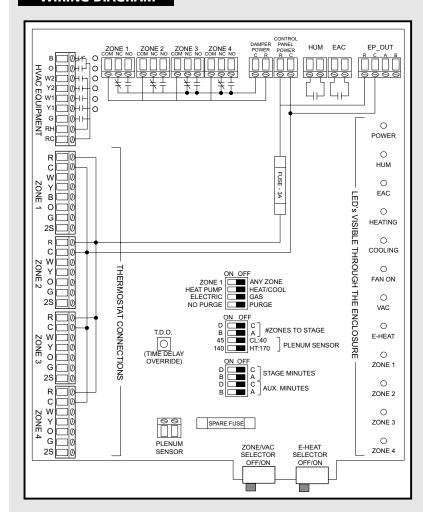
 Auxiliary output relays available to control humidifiers, electronic air cleaners or other accessories tied to heat or blower operation

DUAL FUEL OPERATION

· Control of heat pumps with fossil fuel auxiliary heat

APRILAIRE MODEL 6404 ZONED COMFORT CONTROL PANEL

WIRING DIAGRAM



CONTROL PANEL TERMINAL DESIGNATIONS

R	24V (hot) Thermostat voltage		
С	24V (com) T-stat (if required) &		
	damper voltage		
G	Fan (thermostats and equipment)		
Y/Y1	1st Stage Cooling or Compressor		
	(thermostats and equipment)		
W/W1	1 st Stage Heat or Auxiliary Heat		
	(thermostats and equipment)		
Y2	2 nd Stage Cooling or Compressor		
	(equipment)		
W2	2 nd Stage Heat or Emergency Heat		
	(equipment)		
0	Reversing Valve—Cool		
<u>0</u> B	Reversing Valve—Heat		
2S	2 nd Stage Heat and/or 2 nd Stage Cool		
	(thermostats)		
NC	Normally closed damper output		
NO NO	Normally open damper output		
24VAC	Voltage source for control panel,		
	thermostats and dampers		
RH	Heating transformer—24V (hot)		
RC	Cooling transformer—24V (hot)		
HUM	Auxiliary relay active w/ heat calls		
EAC	Auxiliary relay active w/ blower operation		
A&B	Expansion panel connections		

PRODUCT SPECIFICATIONS			
RATED VOLTAGE	20 to 30 VAC		
RATED CURRENT	3 amp		
FUSE RATING	3 amp, slow blow fuse		
MAXIMUM AMBIENT TEMPERATURE	140°F		
RH AND RC TERMINALS	Independent heat and cool relays for 2 transformer systems		
PLENUM SENSOR			
HIGH LIMIT TEMPERATURE	Selectable between 140°F and 170°F		
PLENUM SENSOR			
LOW LIMIT TEMPERATURE	Selectable between 40°F and 45°F		

TRANSFORMER REQUIREMENTS			
REQUIRED VA	MAX. # OF POWERED DAMPERS		
40	3 or Less		
75	4 thru 6		
40 per 3 Dampers	7 or more		

ADDITIONAL INSTALLATION FEATURES

- 45 degree angled terminals
- Enclosure accommodates wiring from the side or rear
- Wiring diagram on front cover
- Available common terminal for 24 volt powered stats
- . Compatible with power-stealing thermostats

- Fuse protection with extra fuse
- Convenient control of E-Heat through thermostat or on board switch
- Selectable any zone sets mode or zone 1 sets mode
- Elec/non-elec selectable proper control of the fan (G-terminal) for either electric or fossil fuel furnaces



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