

# EnviroZone



## HVAC Zone Control System for Residential & Light Commercial Applications

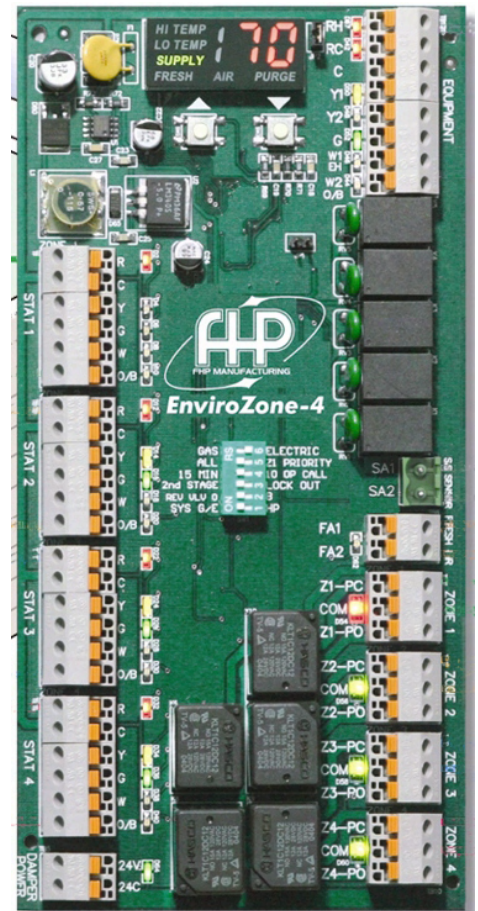
- ELECTRONIC LIMIT CONTROL™ (ELC)
- BUILT-IN FRESH AIR CONTROLLER

*EnviroZone-4* for 2, 3 or 4 Zones

*EnviroZone-2* for 2 Zones

### GENERAL DESCRIPTION

The *EnviroZone* family of residential and light commercial zone controllers includes a state-of-the-art flash-based microprocessor for reliable control of up to four (4) zones from a single forced-air HVAC system. The panel includes a LED display panel with full text for status monitoring and diagnosis of the entire system and equipment. In addition, each thermostat and equipment terminal has its own color-coded LED allowing for easy monitoring of thermostat and system calls. A supply air plenum temperature sensor is included with each controller which allows constant monitoring of supply temperature. FHP's exclusive **Electronic Limit Control™ (ELC)** technology protects the system compressor or heat exchanger from potential issues associated with freeze-up and over-heating. Fresh Air Control is also integrated into the *EnviroZone* panel for improving Indoor Air Quality (IAQ). Two pushbuttons allow for quick and easy adjustment of high and low cut-out limit temperatures, fresh air timing and thermostat type selection.



### Flexible Installation

- Same Controller Handles Heat Pump and Gas/Electric Systems
- Supports up to 3-Stage Heating and 2-Stage Cooling Equipment
- Simple Pushbutton and Dipswitch Configuration
- Quick-Connect Screwless Terminals
- Innovative Enclosure Design with Multiple Wiring & Mounting Options

### Simple Service

- Monitor Complete System from *EnviroZone* Control Panel, including Supply Air Temperature, Cut-Out, Purge and Fresh Air Conditions
- Color Coded Diagnostic LED Indicators for Each Thermostat Call
- Two-Color LED Indicators for Each Damper Position
- Electronic Limit Control™ (ELC) Protects Compressor and Heat Exchanger
- Pushbutton ELC™ for Adjustable Temperature Cut-Outs

### Easy Operation

- Mix & Match Standard Gas/Electric and Heat Pump Thermostats
- Built-In Adjustable Fresh Air Damper Control from 0 to 60 Minutes per Hour
- Intelligent Staging Based on Supply Air Temperature and Time
- Automatic Changeover for Maximum Comfort
- Microprocessor Manages All Complex Decisions

### Convenient Customer Features

- Customer Never Needs to Use the Control Panel
- Selectable Zone-1 Priority for More Customer Control
- Enable Emergency Heat from Zone One Heat Pump Thermostat
- Constant Supply Air Monitoring from ELC ensures Customer Safety
- Zone-Specific Ventilation Mode; Energize Fan from Any Thermostat
- Superior 5-Year Limited Factory Warranty

# SPECIFICATIONS

<b>Power</b>	10VA max (24VAC @ 375mA); SmartZone-4 Controller Only Single transformer design for controller, thermostats, dampers; (Field Supplied) Separate Rc & Rh terminals for separate equipment transformers, if needed
<b>System Power Requirements</b>	18VA (Controller & 4 Thermostats) + 10VA per Damper= Transformer Size (in VA)
<b>Protection</b>	Electronic Auto-Reset Fusable Links
<b>Equipment Outputs</b>	Outputs are relay driven
Damper Relay Rating:	2A @ 24VAC
<b>Zone Damper</b>	
Damper Drives:	'Power-Close / Spring-Open'; 'Power-Open / Power Close' & 'Power-Open / Spring-Close' Up to 4 dampers per Zone; Outputs are relay driven
Damper Relay Rating:	2A @ 24VAC
Damper Rating:	Power-Closed/Spring-Open Dampers; 10VA max each (24VAC @ 0.250A); 9VA typical
<b>Fresh Air Damper</b>	
Damper Drive:	'Power-Open / Spring-Close'; Output is relay driven
Damper Relay Rating:	2A @ 24VAC
Damper Rating:	Power-Open/Spring-Closed Dampers; 10VA max each (24VAC @ 0.250A); 9VA typical
<b>Indicator Display &amp; LEDs</b>	
Thermostat Inputs:	R (red), Y (yellow), G (green), W (red), O/B (red), C (no LED)
Equipment Outputs:	Rc (red), Rh (red), Y1 (yellow), Y2 (yellow), G (green), W1-EH (red), W2-O/B (red), C (no LED)
Zone Damper Outputs:	PC (red), PO (green), C (no LED)
Fresh Air Damper Outputs:	FA1 & FA2 (green)
Display:	2½ Digit 7-Segment Display, Fresh Air, Lo Temp, Hi Temp, Supply Temp, Purge
<b>Setup Features</b>	G/E or HP, Zone 1 Priority, Fan, 2 <sup>nd</sup> Stage Lockout, Reversing Valve, Opposing Call Delay, Thermostat Type Each Zone, Fresh Air Time, Hi-Temp Cutout, Lo-Temp Cutout
<b>Dimensions</b>	11"L x 6"W x 1.5" D

## EASY WIRING - FLEXIBLE CONFIGURATION

