**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

**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

**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

**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

| Power | 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 |
| System Power Requirements | 18VA (Controller & 4 Thermostats) + 10VA per Damper = Transformer Size (in VA) |
| Protection | Electronic Auto-Reset Fusible Links |
| Equipment Outputs | Outputs are relay driven |
| Damper Relay Rating | 2A @ 24VAC |
| Zone Damper |  
  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 |
| Fresh Air Damper |  
  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 |
| Indicator Display & LEDs |  
  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 |
| Setup Features | G/E or HP, Zone 1 Priority, Fan, 2nd Stage Lockout, Reversing Valve, Opposing Call Delay, Thermostat Type Each Zone, Fresh Air Time, Hi-Temp Cutout, Lo-Temp Cutout |
| Dimensions | 11”L x 6”W x 1.5” D |

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### EASY WIRING - FLEXIBLE CONFIGURATION

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- [Easy Wiring Diagram](/easy_wiring_diagram.png)
- [Flexible Configuration](/flexible_configuration.png)

FHP Manufacturing Co. 601 NW 65th Court Fort Lauderdale, FL 33309  
Telephone (954) 776-5471  
Fax (954) 776-5529  
Specifications subject to change without notice