

# Overview

Universal Integrated Furnace Control offers universal compatibility and diagnostics. It replaces a large number of furnace control models in single-stage warm air furnaces. Uses 120Vac hot surface igniter. Includes instructions and special wire harnesses for easy replacement.

## Features

- Cross reference and wire harnesses provided for simple replacement over 195 existing furnace controls.
- Main burner ignition using a 120V hot surface igniter.  
Flame rectification circuit to monitor flame presence.  
Monitoring of system pressure switch, high temperature limit, and rollout functions.  
Appliance operation/safety requirements controlled via microprocessor.  
Controls circulating fan motor based on appliance requirements, in response to a conventional low voltage thermostat.  
LED system status, performance and diagnostic indication.  
Twinning capability

## Product Specifications

### Application

Single stage warm air furnaces

### Frequency

60 Hz

### Operating Humidity Range (% RH)

0% to 95% non-condensing

### Operating Temperature Range (F)

-40 F to +175 F

### Operating Temperature Range (C)

-40 C to +79 C

### Flame Failure Response Time (sec)

2 Seconds max @ 1 $\mu$ A

### PrePurge

30 seconds

### PostPurge

15 seconds

### Cool Fan On Delay

5 seconds

### Cool Fan Off Delay

0 or 60 seconds

### Line Voltage

120 Vac (97-132 Vac)

### Low Voltage

24V (18-30 Vac)

### Igniter Current

5 A resistive @ 120VAC

### Thermostat Anticipator Setting

(Stage 1 only) 100mA

### HSI Warmup Time

17/27 or 30/30 seconds

Trial For Ignition

4, 6, or 8 seconds

Interpurge

60 seconds

Ignition Trials

Three, two tries if flame is not sensed

Number of LEDs

3

Heat On Fan Delay

30 or 60 seconds

Heat Off Fan Delay

60, 90, 120, or 180 Seconds

Gas Control Used With

Any 24Vac redundant, direct ignition gas control rated at 1.5A or less. Honeywell VR8205 recommended.

Cooling Contactor Used With

Any 24Vac contactor rated at 1.0A or less

Induced Draft Blower Load

2.2FLA / 25LRA max @120Vac

Circulator Load

14.5FLA / 25LRA max @120Vac

Type of Fan Used With

Standard Induction-Type Circulating Fan