

# Single stage HSI integrated furnace control for PSC & ECMx blower motors

UNIVERSAL

50M56X-843

Replace over 550 part numbers for PSC or ECMx and speed up install with the White-Rodgers Connect app.

## Streamline inventory

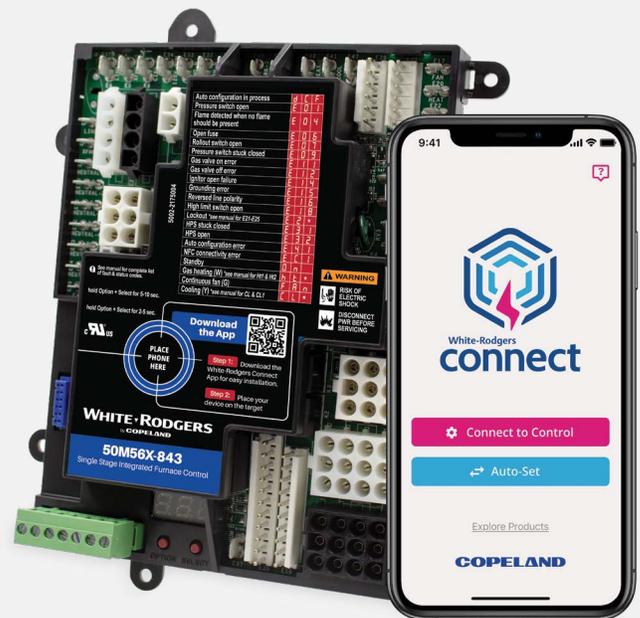
- Configure for either PSC or ECMx blower motors
- Save truck space by replacing over 550 part numbers

## Simplify setup with the White-Rodgers Connect app

- Simple configuration without power, prior to install
- Setup using preloaded OEM settings
- Diagnose fault codes & troubleshoot confidently
- No Wi-Fi, cell service or login required

## Easy installation

- OEM harness detection, no additional harnesses required
- 120V Nitride ignitor included
- 7-Segment LED Display provides easy configuration, diagnostics and real-time flame current
- No rollout accessory or wire required
- Thermostat connector block for simple wiring



**WHITE RODGERS**  
by **COPELAND**

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## Specifications

### Electrical ratings: [ @ 77°F (25°C) ]

Input voltage.....25 VAC 60 Hz  
 Max. input current..... 0.8A @ 25 VAC

### Flame current requirements:

Min. Current to ensure flame detection..... 0.37 µA DC  
 Max. current for non-detection ..... 0.1 µA DC  
 Max. allowable leakage resistance ..... 100 M Ohms

**Note:** Flame current shown on 7-Segment LED display in heating mode  
**Manual Option:** Measured with a DC voltmeter on Test Pins (1 VDC = 1 µA)

**Operating temp range:**.....-40° to 176°F (-40 to 80°C)

**Humidity range:**.....5% to 93% relative humidity  
 .....(non-condensing)

**Gases approved:** natural, manufactured, mixed, liquid petroleum, and LP gas air mixtures all approved for use

**Dimensions:** .....6.5" W x 8.25" L x 1.50" D (with tabs)  
 .....5.5" W x 7.0" L x 1.50" D (tabs removed)

**Agency approvals:** UL-USA / Canada

**1 year limited warranty**



## Simplify installs with the White-Rodgers Connect app



**Near Field Communication (NFC)** creates an interface between the control and your mobile device w/ the White-Rodgers Connect app. The White-Rodgers Connect app does not require cellular/Wi-Fi service to use (once downloaded).

Visit [website](#) to learn more



## Competitive comparison

Product feature	Resideo / Honeywell S9200U1000	ICM ICM2812-KIT	White-Rodgers 50M56X-843
Stages / Blower types	1 - PSC only	1 - PSC only	1 - PSC & ECMx
Mobile app	No	No	Yes - WR Connect
Harnesses	8	11	None - OEM harness detected
Cross-references	200+	150+	550+
Ignitor voltage serviced	120V only	120V only	80V & 120V
Includes universal ignitor	No	No	Yes
Configuration options	Limited - 4 dipswitches	Limited - 2 dipswitches	Unlimited app or push buttons
LED displays	Tri-color LED	Red LED only	Digital LED display
Rollout accessory	Difficult wire jumper	Difficult wire jumper	Not required
Flame current test	No	No	Digital readout or test pins
Full cover w/ fault code label	No - tray only	Yes	Yes
Fault recall & clearing	Jump R & D terminals	Push button	WR app / push buttons
Status & diagnostics	Count LED flashes	Count LED flashes	Read on display or app
Humidifier output	120V only	120V only	24V or 120V
2nd stage cooling & dehumidification	No	No	Yes

To learn more, visit [white-roddgers.com](http://white-roddgers.com)

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