Hot Surface
Ignition Module

50E47U-843

Replace over 325+ HSI module part numbers for multiple applications that use 24V, 120V or 240V ignitors

SIMPLIFY SETUP WITH THE WHITE-RODGERS CONNECT APP

- Simple configuration without power prior to install
- Select preloaded OEM settings with Auto-Set
- Diagnose fault codes and troubleshoot confidently
- No Wi-Fi, cell service or login required

STREAMLINE INVENTORY

- Universal replacement for Fenwal, Honeywell, UTEC, ICM & Robertshaw
- Multiple voltage for 24V, 120V and 240V ignitors
- Energizes an inducer motor and monitors a pressure switch

EASY INSTALLATION & DIAGNOSTICS

- Easy-install harness converts old board wiring
- Onboard digital display provides alternate configuration, operation status, diagnostics & real-time flame current

INTEGRATED THERMOSTAT FEATURE

- Use F67-8535 (sold separately) to maintain temperature without an external thermostat in infrared and tube heaters

APPLICATIONS INCLUDE:

- Pool heaters
- Water heaters
- Unit heaters
- Gas furnaces
- Boilers
- Cooking equipment
- Laundry equipment
- Infrared heaters

WHITE-RODGERS

COPELAND

ELECTRICAL SPECIFICATIONS

Specification	Value	Unit
Input Voltage (control)	18-30	VAC
Input Voltage (Line – L1 & L2)	24*, 120 or 240*	VAC
Input Current	Max 800	mA
Line Frequency	50/60	Hz
Inducer Relay at 120V	3.0/6.0	FLA/LRA
Inducer Relay at 240V	1.5/3.0	FLA/LRA
Gas Valve Relay Max	4.0	Amp
Flame Current to Indicate Flame Loss	<0.50	µA DC
Flame Sense Test Pins	1VDC = 1 µA	VDC

*24V or 240V input only applicable when replacing Fenwal modules.

TIMING SPECIFICATIONS

Options	Selection
Tries for ignition	1, 3
Trial for Ignition (seconds)	7, 4, 10, 15
Ignitor heat-up period (seconds)	17, 4, 6, 7, 20, 34, 40, 45
Pre-purge (seconds)	32, 0, 8, 13, 15, 17, 30, 34, 45
Inter-purge (seconds)	96, 0, 15, 17, 30, 45, 60, 64, 77, 90
Post-purge (seconds)	0, 30, 45, 60, 120
Inducer/Pressure switch option	Off, normal, dual
Flame sense type	Local or remote
Reset to default	No or yes
Integrated thermostat	Off or on

OPERATING

TEMP RANGE:............... -40° to 176°F (-40 to 80°C)

HUMIDITY RANGE:...5% to 95% relative humidity
....*(non-condensing)*

1-YEAR LIMITED WARRANTY

WHITE-RODGERS MOBILE APP:

Get the latest **cross references,** installation resources, spec sheets, and more on your phone or tablet. **Download today.**

Download on the App Store

GET IT ON Google Play

COMPETITIVE COMPARISON

Options	Fenwal 35-65, 66	Robertshaw 780-787	ICM 283	Honeywell /Resideo S8910U	(current) White-Rodgers 50E47-843	(New) White-Rodgers 50E47U-843
Flame Sense Type	Either/Or	Remote	Both	Both	Both	**Both**
Gas Valve Contact Rating	2A	1.5	1.5	2A	1.5A	**2A**
Control Voltage	24V 50/60Hz	24V 60Hz	24V 60Hz	24V 60Hz	24V 60Hz	**24V 50/60Hz**
Ignitor Voltage	24/120/240V	120V	120V	120V	120V	**24/120/240V**
Inducer/PSW	Yes	No	No	No	No	**Yes**
Mobile App	No	No	No	No	No	**WR Connect**
Configuration	None	None	Dipswitches	Dipswitches	Keys	**App or Push Buttons**
Display	Single LED Bulb	None	Single LED Bulb	Single LED Bulb	Single LED Bulb	**3 Digit 7-Segment**
Diagnostics	Count LED Flashes	None	Count LED Flashes	Count LED Flashes	Count LED Flashes	**Read on display or app**
Flame Current Test	No	No	No	Test pads	No	**Digital Readout or Test Pins**
Integrated Thermostat	No	No	No	No	No	**Yes**