

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

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.**



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