



50M56U-843

- Includes:
- Module
 - Wiring Harness
 - HotRod Ignitor Kit



50M56U-843 UNIVERSAL INTEGRATED HSI FURNACE CONTROL KIT

Replaces Virtually All White-Rodgers and Competitive Single Stage Carbide and Nitride HSI Systems with 80V or 120V Ignitors.
Replaces More Models than Honeywell S9200U1000

FEATURES

- 3 Fan Speeds – cool, low heat & high heat speeds.
- Universal HotRod nitride ignitor kit – 21D64-2.
- 9 quick-select/quick-connect wiring harnesses.
- Red LED diagnostic flash codes with stored fault recall.
- Low voltage fuse protection, 3A replaceable automotive type.
- Humidifier & Electronic Air Cleaner connections (optional).

SPECIFICATIONS

Electrical Rating:
 Input Voltage 25 VAC 50/60 Hz
 Max. Input Current 25 VAC: 0.45 amp
 Gas Valve Relays 1.5 amp @ 25 VAC 50/60 Hz
 Inducer Relay 2.2 FLA–3.5 LRA @ 120 VAC
 Circulator Relay 14.5 FLA–25.0 LRA @ 120 VAC
 Ignitor Relay 6.0 amp @ 120 VAC 50/60 Hz (resistive)
 Flame Current Requirements:
 Minimum current to insure flame detection 1 µA DC*
 Maximum current for non-detection 0.1 µA DC*
 Maximum allowable leakage resistance 100 M ohms
 *Measured with a DC microammeter in the flame probe lead
 Operating Temperature Range -40° to 176°F (-40° to 80°C)
 Flame Failure Response Time 2.0 sec

PARTS AND ACCESSORIES See end of this section for parts and accessories

TECHNICAL HELP

Wiring Diagram See pages 190–192

| Model Number | Pre-Purge | Ignitor Warm-Up | Retries | Heat Delay to Fan ON | Heat Delay to Fan OFF | Cool Delay to Fan ON | Cool Delay to Fan OFF | Automatic Reset Time |
|--------------|-----------|-----------------|---------|----------------------|-----------------------|----------------------|-----------------------|----------------------|
| 50M56U-843 | 30 | 17 | 2 | 30 | 100/150 | 6 | 45 | 60 minutes |

CROSS REFERENCE

Consult online Cross Reference for other suggested replacements for this item.