



50M56U-751



Wiring adapters included for old style block and new style in-line harnesses

50M56U-751 CARRIER SINGLE STAGE INTEGRATED HSI FURNACE CONTROL KIT

Replaces White-Rodgers 50M56-751 and Virtually All Carrier Single Stage HSI Controls with 120V Ignitors. Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier (Both 120V & 24V), and Air Cleaner

FEATURES

- System Diagnostic LED with fault recall.
- Fused to protect low voltage system transformers.
- Low-speed continuous fan option.
- Self-test installation routine.

SPECIFICATIONS

Operating Temperature -40 to 176°F (-40 to 80°C)
 Humidity Range 5% to 93% RH (non-condensing)
 Mounting Surface mount multipoise

Electrical Ratings @ 77°F (25°C)
 Input Voltage 25 VAC 50 / 60 Hz
 Maximum Input Current @ 25 VAC 0.45 amp

Relay Load Ratings
 Valve Relay 1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf
 Ignitor Relay 6.0 amp @ 120 VAC 50 / 60 Hz (resistive)
 Inducer Relay 2.2 FLA-3.5 LRA @ 120 VAC
 Circulator Relay 14.5 FLA-25.0 LRA @ 120 VAC

Flame Current Requirements
 Minimum current to insure flame detection 1 uA DC*
 Maximum current for non-detection 0.10 uA DC*
 Maximum allowable leakage resistance 100 M ohms
 *Measured with DC microammeter in the flame probe lead

Timing Spec (@ 60 Hz) maximum
 Flame establishing time 0.8 sec
 Flame failure response time 2.0 seconds

NOTE: At 50 Hz, all timing specifications should be increased by 20%.

Model Number	Pre-Purge Time	Heat Delay-To-Fan-On	Heat Delay-To-Fan-Off	Cool Delay-To-Fan-On	Cool Delay-To-Fan-Off	Post Purge
NEW 50M56U-751	30 sec	25 / 60	90 / 120	2	5 / 90	25 sec

CROSS REFERENCE

50M56U-751 Replaces:

Carrier	White-Rodgers
325878-751	50M56-751
HK42FZ004	
HK42FZ007	
HK42FZ008	
HK42FZ009	ICM
HK42FZ011	ICM282A
HK42FZ013	
HK42FZ016	
HK42FZ034	

HEATING