

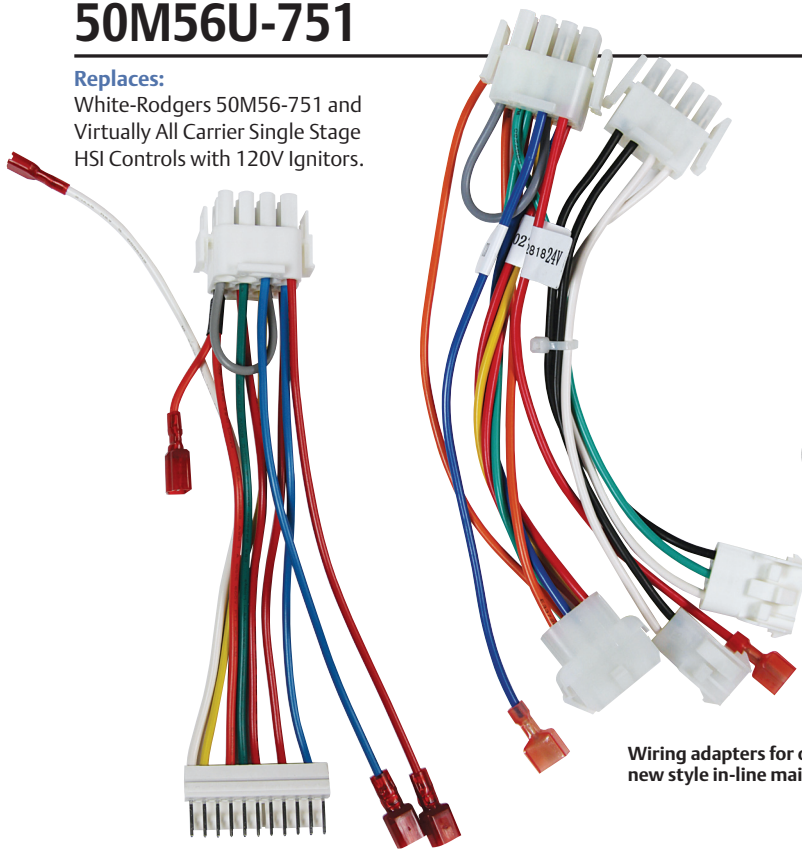
Carrier Single Stage HSI Integrated Furnace Control Kit

OEM Replacement

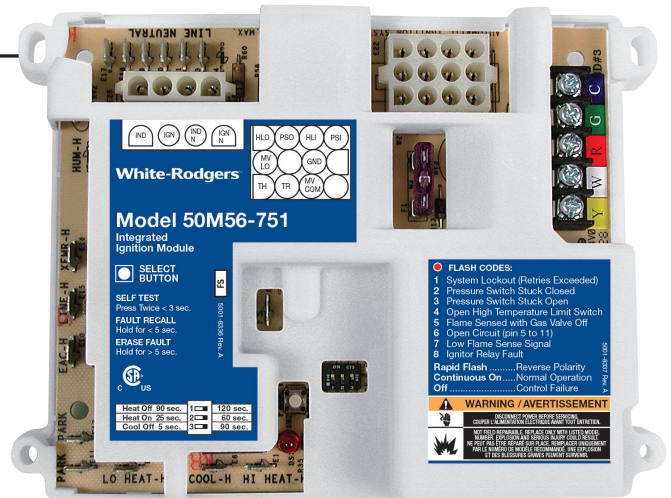
50M56U-751

Replaces:

White-Rodgers 50M56-751 and
Virtually All Carrier Single Stage
HSI Controls with 120V Igniters.



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



Integrated Furnace Module Kit – 50M56U-751



Direct Replacement is Fast and Easy.

50M56U-751 kit ensures continued peak system performance.

Easy Install Kit includes everything you need for quick and accurate replacement:

- Ignition Control Module
- Installation Instructions and OEM Cross-Reference
- Set of Interconnect Harnesses
- Bag of Accessories

White-Rodgers™


EMERSON™
Climate Technologies

Carrier Single Stage HSI Integrated Furnace Control Kit

OEM Replacement

Replaces:

White-Rodgers 50M56-751 and Virtually All
Carrier Single Stage HSI Controls with 120V Ignitors.

50M56U-751

Features

- System Diagnostic LED with Fault Recall
- Low-Speed Continuous Fan Option
- 120 VAC Ignitor Output
- 120 or 24 VAC Humidifier Output
- 120 VAC Electronic Air Cleaner Output
- Self-Test Installation Routine

50M56U-751 Cross Reference

50M56U-751 Replaces:

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

Specifications

Electrical Ratings [@ 77°F (25°C)]

Input Voltage: 25 VAC 50/60 Hz

Max. 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 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 175°F (-40° to 80°C)

Mounting

Surface mount multipoise

Timing Specifications [@ 60 Hz **]

Maximum

Flame Establishing Time: 0.8 sec

Flame Failure Response Time: 2.0 sec

** At 50 Hz, all timing specifications should be increased by 20%

Gases Approved: Natural, Manufactured, Mixed,
Liquified Petroleum and LP Gas Air Mixtures are
all approved for use.

Dimensions

5.25" W x 7" H x 1.25" D

For Additional Information

Visit www.white-rodgers.com

Timing Specifications

(All times are in seconds unless noted otherwise)

50M56U-751	
Pre-purge	30
Ignitor warm-up (1st 64 attempts)	17
Maximum ignitor warm-up	19
Ignition activation period	2
Trial for ignition period	4
Recycles	3
Retries	2 times
Valve sequence period	12
Interpurge	60
Post-purge	25
Lockout time	275
Heat delay to fan ON*	25/60
Heat delay to fan OFF*	90/120
Cool delay to fan ON	2
Cool delay to fan OFF*	5/90
Auto reset	60 minutes

* These times will vary depending on option
switch position. See OPERATION section for
further information.