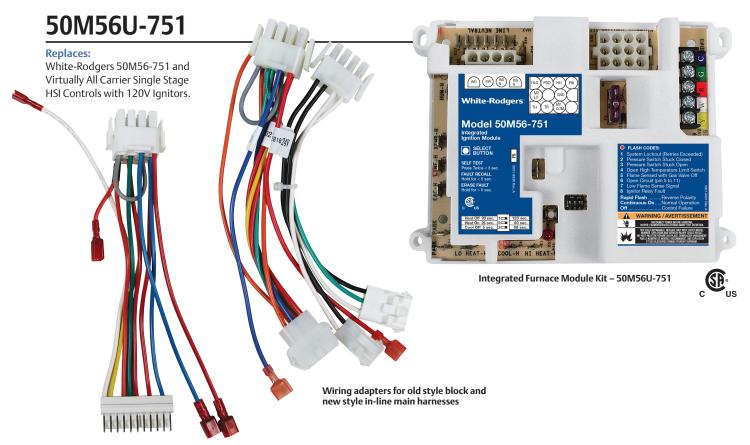
# Carrier Single Stage HSI Integrated Furnace Control Kit

# **OEM Replacement**



# 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



# 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	ICM
HK42FZ011	ICM282A
HK42FZ013	10.11.2027
HK42FZ016	
HK42FZ034	

White-Rodgers

# **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:  $1 \mu a DC^*$  Maximum current for non-detection:  $0.1 \mu a DC^*$  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

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

<sup>\*</sup> These times will vary depending on option switch position. See OPERATION section for further information.



 $<sup>^{*\,*}\</sup>mbox{At}$  50 Hz, all timing specifications should be increased by 20%