

# Carrier/ICP Single Stage HSI Integrated Furnace Control

50M56U-751

**D**  
OEM Direct

1 control replaces 33 Carrier part numbers



## Direct OEM Replacement Controls

Fast drop-in OEM mounting  
Includes all required harnesses  
PSC blower motor with 120V HSI Ignition



## Reduce Stocking SKU's

1 control replaces 33 Carrier part numbers



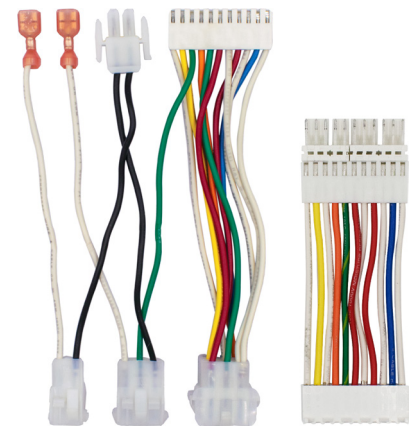
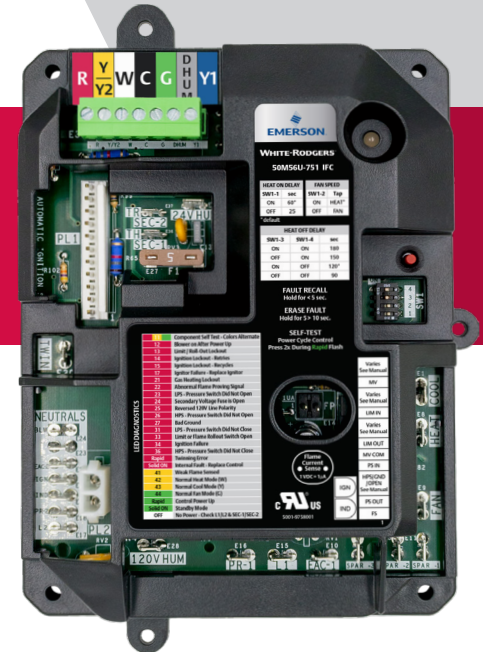
## Advanced Diagnostics

Displays 11 additional fault codes  
Tri-color LED shows operational status and fault codes  
Fault code label on cover  
Simple pushbutton to display fault codes



## Easy Installation

Automatically detects and configures per application  
Matches OEM wiring connections  
Plug-on thermostat wiring connector



**WHITE-RODGERS™**

  
**EMERSON™**

## COMPETITIVE COMPARISON:

	WHITE-RODGERS	CARRIER / ICP	ICM282A
Cross Reference Coverage	1 control for 33 cross refs	5 controls for 33 cross refs	1 control for 7 cross refs
OEM Mounting	✓	✓	✓
Tri-Color LED	✓	X	X
Fault Recall & Clearing	Simple Push Button	Jumper Twin & C Terminals	1 fault only
Robust FR4 PCB Material	✓	X	✓
Component Self Test Mode	✓	✓	✓
Flame Current Test Pins	✓	X	X
Constant Fan Speed & Dehum Mode	Included	1 Control Only	X
No Harness for most Applications	✓	✓	X

Use White-Rodgers for the most comprehensive features and cross reference.

## SPECIFICATIONS:

### Electrical Ratings [@ 77°F (25°C)]

Input Voltage: 25 VAC 60 Hz

Max. Input Current @ 25 VAC: 0.45 amp

### 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

### Operating Temperature Range

-40° to 175°F (-40° to 80°C)

### Humidity Range

5 - 95% relative humidity (non-condensing)

### Gases Approved

Natural, Manufactured, Mixed, Liquefied Petroleum, and LP Gas-Air Mixtures are all approved for use

### Dimensions

5.625" W x 8.25" L x 1.50" D (with tabs)

5.25" W x 7.0" L x 1.50" D (tabs removed)

### 1 Year Limited Warranty

## TIMING SPECIFICATIONS:

Timings are shown in seconds

	Pre-purge	Ignitor warm-up (adaptive)	Retries	Post-purge	Lockout time	Heat ON delay	Heat OFF delay	Cool ON delay	Cool OFF delay	Auto reset	Flame establishment	Flame failure response
50M56U-751	15	5-21 (17*)	3 times	15	5 mins	25/60*	90/120*/150/180	2	5/90*	60 mins	0.8	2

\* Denotes factory default

## CROSS REFERENCE:

### Carrier/ICP Brands

1172550  
1183599  
1184594  
1184783  
1186024  
1186115

325878-751

CEPL130437-01  
CEPL130437-01-I  
CEPL130438-01  
CEPL130590-01  
CEPL131004  
CEPL131004-02

CEPL131004-20

CEPL131004-20-ICP  
CEPL131012-01  
CEPL131012-01-I  
CEPL131012-02  
CEPL131012-02-I  
CEPL131012-20

HK42FZ004

HK42FZ007  
HK42FZ008  
HK42FZ009  
HK42FZ011  
HK42FZ013  
HK42FZ016

HK42FZ018

HK42FZ034  
HK42FZ036  
HK42FZ045  
HK42FZ061  
HK42FZ062

ICM

ICM282A

Johnstone

L43-837  
L47-385

White-Rodgers

50M56-751  
50M56U-751

Added cross references 10/20

R-5107-1 (9/20)

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