# **Carrier/ICP** Two-Stage HSI Integrated Furnace Control Kits



Direct OEM Replacement is Fast and Easy. First of its kind to replace PSC, Variable Speed and ECMX applications.



**Direct OEM Replacement Controls** Fast drop-in OEM mounting

Includes all required harnesses 120 VAC ignitor output Confirms installation with pushbutton self-test routine



**Reduces stocking SKUs** One SKU replaces several OEM and competitive models



Advance Diagnostics for Servicing Tri-color LED shows operational status and fault codes – Simple pushbutton to retrieve fault codes



# Premium Home Comfort

Continuous low-speed fan option for better temperature balance and full-time air cleaning - easy dipswitch setup



**Flame Current Test Pads** Easy on-board checkout



**Two-Stage 21V51D-751** Replaces Carrier/ICP equipment brands Blower Motor Types – PSC, Variable Speed and ECMx with 120V Ignition

### **DID YOU KNOW?**

This kit includes an additional harness to replace ICP Two-Stage applications

See back for cross reference



### **1-Year Limited Warranty**





# WHITE-RODGERS<sup>®</sup>

# 21V51D-751 Two-Stage

### **Cross Reference**

White-Rodgers 21V51D-751 50V51-751

Carrier PSC / VS	
325879-751	HK42FZ010
CEPL130455-01	HK42FZ015
HK42FZ005	HK42FZ017
Carrier ECMx	
CEPL130948-01	HK42FZ028
CEPL130948-02	HK42FZ040
ICP PSC Only	
1172551	HK42FZ020
1172809	CEPL130591-01
HK42FZ019	CEPL130591-41
ICP ECMx	
1184408	
CEPL131043-01	
HK42FZ041	
ICM PSC/VS	
ICM2807	

#### Specifications Electrical Ratings

Input Voltage: 18 to 30 VAC, 60 Hz Current: 0.8 amp @ 25 VAC

#### Flame Current Requirements:

Min current to insure flame detection: 0.25  $\mu$ A DC<sup>4</sup> Max current for non-detection: 0.1  $\mu$ A DC Max allowable leakage resistance: 150 M ohms \* Measuring with a DC voltmeter (1VDC = 1  $\mu$ A)

**Operating Temperature Range:** 

### Timing Specifications

(All times are in seconds unless noted otherwise)

-40° to 175°F (-40° to 80°C)

**Mounting** Plastic tray

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Humidity Range: 5 to 95% relative humidity (non-condensing)

#### Gases Approved:

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

Pre-purge	Ignitor warm-up	Retries	Post-purge	Lockout time	Heat ON delay Low heat/ High heat	Heat OFF delay	Cool ON delay	Cool OFF delay	Auto reset
15	17	3 times	15	240	45/25	90/120*/150/180	3	3/90*	60 mins
* .  . £ +									

\*default

### 50M56U-751 Single Stage



Replaces Carrier 325828-751 Fixed Speed Furnace Kit

# Cross Reference

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

### Specifications

Electrical Ratings [@ 77°F (25°C)] Input Voltage: 25 VAC 50/60 Hz

Max. Input Current @ 25 VAC: 0.45 amp

#### 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)

-40° to 175°F (-40° to 80°C) Mounting

Plastic covers with screws

#### Humidity Range:

5 to 95% relative humidity (non-condensing)

#### Gases Approved:

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

### **Timing Specifications**

(All times are in seconds unless noted otherwise)

(An unless are in seconds unless noted other wise)									
Pre-purge	Ignitor warm-up	Retries	Post-purge	Lockout time	Heat ON delay	Heat OFF delay	Cool ON delay	Cool OFF delay	Auto reset
30	17	2 times	25	275	25/60*	90/120*	2	5/90*	60 mins
*default									

#### The White-Rodgers Mobile App:

- Cross referencing

- Product information - Product selection



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