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[®]

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 μ A DC⁴ Max current for non-detection: 0.1 μ A DC Max allowable leakage resistance: 150 M ohms * Measuring with a DC voltmeter (1VDC = 1 μ 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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