

Direct OEM Replacement is Fast and Easy.
First of its kind to replace both PSC/VS and ECMx applications.

D
OEM Direct

Carrier Two-Stage HSI Integrated Furnace Control Kits



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



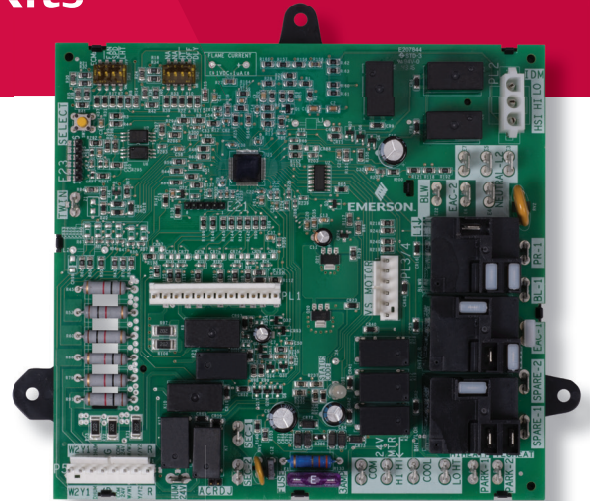
Premium Home Comfort

- 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

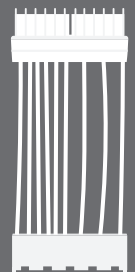


Two-Stage 21V51D-751

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™

EMERSON. CONSIDER IT SOLVED.™

21V51D-751 Two-Stage

Cross Reference

| 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 |

| White-Rodgers |
|---------------|
| 21V51D-751 |
| 50V51-751 |

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 DC*
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:

-40° to 175°F (-40° to 80°C)

Mounting

Plastic tray

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.

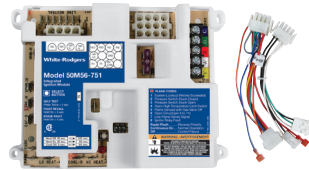
Timing Specifications

(All times are in seconds unless noted otherwise)

| 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 μ A DC*
Maximum current for non-detection: 0.1 μ 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

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)

| 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

R-4612



Download the app for
product information

White-Rodgers

emerson.com/white-rodgers



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