

# ZPS51K5E-PFV

HFC, R-410A, 60 Hz, 1 - Phase, 208/230 V

## Air Conditioning

**Production Status:** This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Copeland Wholesaler. Please check with your local Copeland Representative for international availability.

## Summary

Performance		
Evaporator Temp. (°F)	45.00	50
Condensing Temp. (°F)	130.00	115
Return Gas Temp. (°F)	65.00	70
Liquid Temp. (°F)	115.00	100
Capacity (BTU/hr)	52000	64100
Power (W):	4860	4010
Current (Amps):	22.2	18.6
EER(BTU/Wh):	10.7	16
Mass Flow (lbs/hr):	767	853
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-22	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.96	
Displacement (ft <sup>3</sup> /Hr):	359.7	
Overall Length (in):	9.70	
Overall Width (in):	9.70	
Overall Height (in):	16.50	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	17.20
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	36
<b>Oil Type:</b>	3MA
<b>Net Weight (lbs):</b>	76.5
<b>Internal Free Volume (in<sup>3</sup>):</b>	170.2

\*Overall compressor height on Copeland Brand Product's specified mounting grommets.

#### Electrical

<b>LRA High* (Amps):</b>	139.9
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	42
<b>Max Operating Current (Amps):</b>	37.00
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	30.0
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	26.9
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337- 20031217
<b>UL File Date:</b>	2014-03-21

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

#### Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-14	40.0	0.0	440	
Start Capacitor	014-0061-27	88.0	106.0	330	

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	208/230	1	60	A/C, 67% Load Of Compressor Model

## Nomenclature

ZPS51K5E-PFV

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### **Family Series**

**Z:** Scroll

### **Application Range**

**P:** A/C - R-410A/B

### **Modulation**

**S:** Two Step

**S:** Two Step

### **Capacity**

**51K:** Capacity Multiplier-1000

### **Oil Type**

**E:** Polyol Ester

### **Motor Type**

**P:** 1 Phase/Capacitor Run, Permanent Split Capacitor

### **Motor Protection**

**F:** Internal Inherent Protection

### **Voltage**

**V:** 60Hz (208/230-1) 50Hz (-)