

# ZPS51K7E-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	63900
Power (W):	4630	3800
Current (Amps):	21.9	18.2
EER(BTU/Wh):	11.2	16.85
Mass Flow (lbs/hr):	760	847
Sound Data @ 50 / 115		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2023-05-19	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.92	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	16.93	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	17.70	
Suction Size (in),Type:	7 / 8 Stub	
Discharge Size (in),Type:	1 / 2 Stub	
Initial Oil Charge (oz):	42	
Oil Recharge (oz):	36	
Oil Type:	3MA	
Net Weight (lbs):	78.9	
Internal Free Volume (in <sup>3</sup> ):		

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

**Electrical**

<b>LRA High* (Amps):</b>	151
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	37
<b>Max Operating Current (Amps):</b>	31.7
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	26.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	23.7
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337- 20200323
<b>UL File Date:</b>	2020-03-23

\*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

ZPS51K7E-PFV

#### 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 (-)