

# ZP51K7E-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	100
Return Gas Temp. (°F)	65.00	70
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	50700	68600
Power (W):	4670	3060
Current (Amps):	20.9	13.8
EER(BTU/Wh):	10.85	22.45
Mass Flow (lbs/hr):	741	840
Sound Data @		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2023-05-30	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.88	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.27	
Overall Width (in):	9.27	
Overall Height (in):	16.49	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	17.20	
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):	77.2	
Internal Free Volume (in <sup>3</sup> ):		

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

**Electrical**

<b>LRA High* (Amps):</b>	150
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	40
<b>Max Operating Current (Amps):</b>	31
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	28.6
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	25.6
<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	014-0064-34	70.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
No data available in table				

## Nomenclature

ZP51K7E-PFV

#### Family Series

**Z:** Scroll

#### Application Range

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

#### 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 (-)