

# ZP42K6E-PFV

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

Air Conditioning

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Summary

Performance		
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	42500	57200
Power (W):	4000	2620
Current (Amps):	17.7	11.6
EER(BTU/Wh):	10.6	21.8
Mass Flow (lbs/hr):	621	701
Sound Data @ 50 / 115		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-25	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.39	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.56	
Overall Width (in):	9.56	
Overall Height (in):	16.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	17.17
<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>Net Weight (lbs):</b>	72.5
<b>Internal Free Volume (in^3):</b>	188.91

**Horse Power:**

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

<b>LRA High* (Amps):</b>	130.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	30.5
<b>Max Operating Current (Amps):</b>	24.2
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	21.8
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	19.6
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337
<b>UL File Date:</b>	2003-12-17

\*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	OPTIONAL

**Alternate Applications**

Refrigerant	Voltage	Phase	Frequency	Application
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No data available in table

## Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	914-0036-03	1	CAP START KIT	
99	914-0037-51	1	RUN CAP KIT	
99	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
99	940-0001-79	1	RELAY-POTENTIAL KIT	
99	943-0120-00	1	SECURE START 1PH SINGLE PACK	
99	971-0066-00	1	MODULE-P210 ASSM	CORESENSE DIAGNOSTICS 2-WIRE

## Accessories

Accessories		
Category	Part Number	Description
CoreSense	971-0066-00	CoreSense™ Diagnostics Module (2-Wire Module, 1-Phase Only)
CoreSense	971-0067-00	CoreSense™ Diagnostics Module (3-Wire Module, 1-Phase Only)
Crankcase Heaters	998-7026-00	Crankcase Heater Enclosure Box
Crankcase Heaters	018-0094-00	Crankcase Heater, 240V, 40W
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W
Crankcase Heaters	018-0094-03	Crankcase Heater, 480V, 40W, 21.25" Lead Length
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length

Category	Part Number	Description
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Electrical Components

Electrical Components	
Part No: 071-0546-39	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-5022-17
<u>Vendor Part Number</u>	Usage Description: Stator
15HM1988	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.81
T.I.	Run Wdg: 0.50
<b>Potential</b>	<b>Start Capacitor</b>
Part No: 040-0166-37	Part No: 014-0061-27
Usage Description: Potential Relay	Low MFD: 88.0
<u>Vendor Part Number</u>	Type:Start Capacitor
RVA2AE6D-946	High MFD: 106.0
<u>Vendor Name</u>	Usage Description: Start Capacitor
ELECTRICA	Volts: 330
<b>Run Capacitor</b>	
Part No: 014-0064-34	
Low MFD: 70.0	
Type:Run Capacitor	
High MFD: 0.0	
Usage Description: Run Capacitor	
Volts: 370	

Nomenclature

ZP42K6E-PFV
<b>Family Series</b>
<b>Z:</b> Scroll
<b>Application Range</b>
<b>P:</b> A/C - R-410A/B
<b>Capacity</b>
<b>42K:</b> Capacity Multiplier-1000
<b>Model Variation</b>
<b>6:</b> Model Variation

**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 (-)

## Miscellaneous

## Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
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No data available in table

## Nomenclature

[ZP42K6E-PFV](#)

Date	Data Group	Field	Old Data	New Data
09-Jun-2014	Status	Status	P	A
17-Jan-2014	Status	Status	A	P
28-Oct-2013	Sound	Sound Ave	-1	68
28-Oct-2013	Sound	Sound Max	-1	73
28-Oct-2013	Sound	Sound Start	-1	69
28-Oct-2013	Sound	Sound Start Max	-1	77
28-Oct-2013	Sound	Sound Stop	-1	63
28-Oct-2013	Sound	Sound Stop Max	-1	71
28-Oct-2013	Sound	Vibration Ave	-1	2
28-Oct-2013	Sound	Vibration Max	-1	3