

# ZP31K5E-TF5

HFC, R-410A, 60 Hz, 3 - Phase, 200/230 V , [Also Available with Variable Frequency Drives](#)

## 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)	31200	42600
Power (W):	3060	2000
Current (Amps):	9.1	7.1
EER(BTU/Wh):	10.2	21.3
Mass Flow (lbs/hr):	459	525
Sound Data @ 45 / 130		
Sound Power (dBA):	69 Avg	74 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-01	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	1.80	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.70	
Overall Width (in):	9.70	
Overall Height (in):	15.30	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	16.00
<b>Suction Size (in),Type:</b>	3 / 4 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	25
<b>Oil Recharge (oz):</b>	21
<b>Oil Type:</b>	3MA
<b>Net Weight (lbs):</b>	48.1
<b>Internal Free Volume (in<sup>3</sup>):</b>	124.5

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

#### Electrical

<b>LRA High* (Amps):</b>	73
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	16.3
<b>Max Operating Current (Amps):</b>	13.00
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	11.6
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	10.4
<b>RPM:</b>	3500
<b>Box IP :</b>	56
<b>UL File No:</b>	SA2337- 20031216
<b>UL File Date:</b>	2003-12-16

\*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
No data available in table					

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	200/220	3	50	Air Conditioning

## Nomenclature

ZP31K5E-TF5

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### **Family Series**

**Z:** Scroll

### **Application Range**

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

### **Capacity**

**31K:** Capacity Multiplier-1000

### **Oil Type**

**E:** Polyol Ester

### **Motor Type**

**T:** 3 Phase

### **Motor Protection**

**F:** Internal Inherent Protection

### **Voltage**

**5:** 60Hz (200/230-3) 50Hz (200/220-3)