

# ZPS51K5E-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		
<b>Evaporator Temp. (°F)</b>	45.00	50
<b>Condensing Temp. (°F)</b>	130.00	115
<b>Return Gas Temp. (°F)</b>	65.00	70
<b>Liquid Temp. (°F)</b>	115.00	100
<b>Capacity (BTU/hr)</b>	52100	64100
<b>Power (W):</b>	4790	3940
<b>Current (Amps):</b>	13.9	11.9
<b>EER(BTU/Wh):</b>	10.9	16.25
<b>Mass Flow (lbs/hr):</b>	766	854
Sound Data @ 45 / 130		
<b>Sound Power (dBA):</b>	72 Avg	77 Max
<b>Vibration mils(peak-peak):</b>	2.0 Avg	3.0 Max
<b>Record Date:</b>	2017-03-22	
Mechanical		
<b>Displacement (in^3/Rev):</b>	2.96	
<b>Displacement (ft^3/Hr):</b>	359.7	
<b>Overall Length (in):</b>	9.70	
<b>Overall Width (in):</b>	9.70	
<b>Overall Height (in):</b>	16.50	
<b>Mounting Length (in):</b>	7.50	
<b>Mounting Width (in):</b>	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>	71.5
<b>Internal Free Volume (in<sup>3</sup>):</b>	188.9

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

#### Electrical

<b>LRA High* (Amps):</b>	110
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	25.8
<b>Max Operating Current (Amps):</b>	22.00
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	18.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	16.5
<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
No data available in table					

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	200/220	3	50	A/C, 67% Load Of Compressor Model
R-410A HFC	200/230	3	60	A/C, 67% Load Of Compressor Model
R-410A HFC	200/220	3	50	Air Conditioning

## Nomenclature

ZPS51K5E-TF5

### 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