

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		
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)	52100	64100
Power (W):	4790	3940
Current (Amps):	13.9	11.9
EER(BTU/Wh):	10.9	16.25
Mass Flow (lbs/hr):	766	854
Sound Data @ 45 / 130		
Sound Power (dBA):	72 Avg	77 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-22	
Mechanical		
Displacement (in^3/Rev):	2.96	
Displacement (ft^3/Hr):	359.7	
Overall Length (in):	9.70	
Overall Width (in):	9.70	
Overall Height (in):	16.50	
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):	71.5
Internal Free Volume (in^3):	188.9

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

Electrical	
LRA High* (Amps):	110
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	25.8
Max Operating Current (Amps):	22.00
RLA, MCC/1.4(use for contactor selection)(Amps):	18.4
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	16.5
RPM:	3500
Box IP :	21
UL File No:	SA2337-20031217
UL File Date:	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