

ZPS104KCE-TF5

HFC, R-410A, 50 Hz, 3 - Phase, 200/220 V , [Also Available with Variable Frequency Drives](#)

Air Conditioning

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

Summary

Performance		
Evaporator Temp. (°F)	50.00	45
Condensing Temp. (°F)	115.00	130
Return Gas Temp. (°F)	70.00	65
Liquid Temp. (°F)	100.00	115
Capacity (BTU/hr)	106000	86900
Power (W):	6590	7820
Current (Amps):	23.7	26.8
EER(BTU/Wh):	16.1	11.1
Mass Flow (lbs/hr):	1410	1270
Sound Data @		
Sound Power (dBA):	74 Avg	79 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2020-07-03	
Mechanical		
Displacement (in ³ /Rev):	5.88	
Displacement (ft ³ /Hr):	592.0	
Overall Length (in):	11.31	
Overall Width (in):	10.33	
Overall Height (in):	22.00	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	22.80	

Suction Size (in),Type:	1 1 / 8 Stub
Discharge Size (in),Type:	1 1 / 4 Rotalock
Initial Oil Charge (oz):	85
Oil Recharge (oz):	81
Oil Type:	3MA
Net Weight (lbs):	112.4

Internal Free Volume (in³):

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

Electrical

LRA High* (Amps):	240
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	50.8
Max Operating Current (Amps):	35.50
RLA, MCC/1.4(use for contactor selection)(Amps):	36.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	32.6
RPM:	2900
Box IP :	21
UL File No:	SA2337- 20120620
UL File Date:	2012-06-20
European Pressure Equipment Directive (PED):	
Fluid Group**:	FG 2
PS Low / High Side (BAR):	29.5 / 45.0
TS Min (°C):	-35 / -35
TS Max (°C):	50 / 150

Volume (L) :

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

**Fluid Group 1 comprises dangerous fluids defined as: Explosive, extremely flammable, high flammable, very toxic, toxic, oxidizing.

Fluid Group 2 is for non-dangerous fluids defined as: non-explosive, non-toxic, non-flammable.

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

Nomenclature

ZPS104KCE-TF5

Family Series

Z: Scroll

Application Range

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

Modulation

S: Two Step

S: Two Step

Capacity

104K: Capacity Multiplier-1000

Model Variation

C: Model Variation

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)