

# ZP104KCE-TF5

HFC, R-410A, 60 Hz, 3 - Phase, 200/230 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)	45.00	35
Condensing Temp. (°F)	130.00	120
Return Gas Temp. (°F)	65.00	55
Liquid Temp. (°F)	115.00	105
Capacity (BTU/hr)	106000	94000
Power (W):	9380	8300
Current (Amps):	27.2	24.9
EER(BTU/Wh):	11.3	11.35
Mass Flow (lbs/hr):	1565	1310
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2017-11-07	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	5.88	
Displacement (ft <sup>3</sup> /Hr):		
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):	22.70	

<b>Suction Size (in),Type:</b>	1 3 / 4 Rotalock
<b>Discharge Size (in),Type:</b>	1 1 / 4 Rotalock
<b>Initial Oil Charge (oz):</b>	85
<b>Oil Recharge (oz):</b>	81
<b>Oil Type:</b>	3MA
<b>Net Weight (lbs):</b>	105.8
<b>Internal Free Volume (in<sup>3</sup>):</b>	440.0

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

#### Electrical

<b>LRA High* (Amps):</b>	240
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	44
<b>Max Operating Current (Amps):</b>	35.50
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	31.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	28.2
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337- 20120620
<b>UL File Date:</b>	2012-06-20
<b>European Pressure Equipment Directive (PED):</b>	
<b>Fluid Group**:</b>	FG 2
<b>PS Low / High Side (BAR):</b>	29.5 / 45.0
<b>TS Min (°C):</b>	-35 / -35
<b>TS Max (°C):</b>	50 / 150
<b>Volume (L) :</b>	1.2 / 7.2

\*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					
<b>Alternate Applications</b>					
Refrigerant	Voltage	Phase	Frequency	Application	
R-410A HFC	200/220	3	50	Air Conditioning	

## Nomenclature

ZP104KCE-TF5

### Family Series

**Z:** Scroll

### Application Range

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

### 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)