

# ZP38K3E-TFD

HFC, R-410A, 60 Hz, 3 - Phase, 460 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	45
Condensing Temp. (°F)	130.00	100
Return Gas Temp. (°F)	65.00	65
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	37600	46800
Power (W):	3760	2450
Current (Amps):	5.4	4.1
EER(BTU/Wh):	10	19.1
Mass Flow (lbs/hr):	555	580
Sound Data @		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.5 Avg	3.5 Max
Record Date:	2003-11-11	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.20	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	15.65	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	16.40	

<b>Suction Size (in),Type:</b>	3 / 4 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	38
<b>Oil Type:</b>	3MA
<b>Net Weight (lbs):</b>	66.0
<b>Internal Free Volume (in<sup>3</sup>):</b>	215.0

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

#### Electrical

<b>LRA High* (Amps):</b>	46
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	11
<b>Max Operating Current (Amps):</b>	10.1
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	7.9
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	7.1
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337- 19940614
<b>UL File Date:</b>	1994-06-14

\*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	380/420	3	50	Air Conditioning

## Nomenclature

ZP38K3E-TFD

---

**Family Series**

**Z:** Scroll

**Application Range**

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

**Capacity**

**38K:** Capacity Multiplier-1000

**Oil Type**

**E:** Polyol Ester

**Motor Type**

**T:** 3 Phase

**Motor Protection**

**F:** Internal Inherent Protection

**Voltage**

**D:** 60Hz (460-3) 50Hz (380/420-3)