

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 ³ /Rev):	2.20	
Displacement (ft ³ /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	

Suction Size (in),Type:	3 / 4 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	38
Oil Type:	3MA
Net Weight (lbs):	66.0
Internal Free Volume (in³):	215.0

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

Electrical

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