

ZRD42KCE-TFD

HFC, R-407C, 60 Hz, 3 - Phase, 460 V

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)	41100	49100
Power (W):	3960	2580
Current (Amps):	7	4.8
EER(BTU/Wh):	10.5	19
Mass Flow (lbs/hr):	605	610
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:		
Mechanical		
Displacement (in ³ /Rev):	3.49	
Displacement (ft ³ /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	17.11	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	17.90	

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):	68.8

Internal Free Volume (in³):

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

Electrical

LRA High* (Amps):	44
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	10
Max Operating Current (Amps):	6.90
RLA, MCC/1.4(use for contactor selection)(Amps):	7.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	6.4
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-407C HFC	380/420	3	50	A/C, 50% Load Of Compressor Model
R-407C HFC	460	3	60	A/C, 50% Load Of Compressor Model

Refrigerant	Voltage	Phase	Frequency	Application
R-407C HFC	380/420	3	50	A/C, 50% Load Of Compressor Model
R-407C HFC	380/420	3	50	Air Conditioning
R-407C HFC	460	3	60	Air Conditioning

Nomenclature

ZRD42KCE-TFD
Family Series
Z: Scroll
Application Range
R: A/C - R-22/407C/134a
Modulation
D: Digital
D: Digital
Capacity
42K: 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
D: 60Hz (460-3) 50Hz (380/420-3)