

ZB58KCE-TFD

HFC, R-407C, 60 Hz, 3 - Phase, 460 V , [Also Available with Variable Frequency Drives](#)

Medium Temperature

Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Copeland Wholesaler. Please check with your local Copeland Representative for international availability.

Summary

Performance		
Evaporator Temp. (°F)	20.00	45
Condensing Temp. (°F)	120.00	130
Return Gas Temp. (°F)	65.00	65
Liquid Temp. (°F)	120.00	130
Capacity (BTU/hr)	52800	83800
Power (W):	7140	8370
Current (Amps):	11.4	12.8
EER(BTU/Wh):	7.4	10
Mass Flow (lbs/hr):	762	1325
Sound Data @		
Sound Power (dBA):	82 Avg	87 Max
Vibration mils(peak-peak):	3.0 Avg	4.0 Max
Record Date:	2023-05-17	
Mechanical		
Displacement (in^3/Rev):	7.76	
Displacement (ft^3/Hr):		
Overall Length (in):	11.17	
Overall Width (in):	11.11	
Overall Height (in):	18.76	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

Mounting Height (in):	19.50
Suction Size (in),Type:	1 3 / 4 Rotalock
Discharge Size (in),Type:	1 1 / 4 Rotalock
Initial Oil Charge (oz):	89
Oil Recharge (oz):	81
Oil Type:	POE
Net Weight (lbs):	126.0
Internal Free Volume (in^3):	639.0

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

Electrical	
LRA High* (Amps):	95.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	23
Max Operating Current (Amps):	15.40
RLA, MCC/1.4(use for contactor selection)(Amps):	16.4
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	14.7
RPM:	3500
Box IP :	21
UL File No:	SA2337-19960927
UL File Date:	1996-09-27
European Pressure Equipment Directive (PED):	
Fluid Group**:	FG 2
PS Low / High Side (BAR):	22.6 / 32.0
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-134a HFC	380/420	3	50	High Temp	
R-22 HCFC	460	3	60	High Temp	
R-22 HCFC	380/420	3	50	High Temp	
R-404A HFC	380/420	3	50	Medium Temperature	
R-404A HFC	460	3	60	Medium Temperature	
R-407A HFC	460	3	60	Medium Temperature	
R-407A HFC	380/420	3	50	Medium Temperature	
R-407C HFC	380/420	3	50	Medium Temperature	
R-407F HFC	380/420	3	50	Medium Temperature	
R-407F HFC	460	3	60	Medium Temperature	

Nomenclature

ZB58KCE-TFD
Family Series Z: Scroll
Application Range B: Ref High/ Med. Temp. - R-22/404A/410A/407A/C/F
Capacity 58K: 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)