

ZR42K5E-TFD

HCFC, R-22, 60Hz, 3- Phase, 460 V

Air Conditioning



Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

Evap(°F)/Cond(°F)	45 / 130	50 / 100
RG(°F)/Liq(°F)	65 / 115	70 / 85
Capacity (Btu/hr)	42200	55900
Power (Watts):	3750	2540
Current (Amps):	5.65	4.30
EER (Btu/Wh):	11.25	21.95
Mass Flow (lbs/hr):	618	716
Sound Power (dBA):	73 Avg	78 Max
Vibration (mils(peak- Record Date:	2.0 Avg 2014-03-06	3.0 Max

Mechanical

Number of Cylinders:0	Displ(in^3/Rev):	3.45	
Bore Size(in):	0.00	Displ(ft^3/hr):	419.27
Stroke(in):	0.00		
Overall Length (in):	9.69	Mounting Length (in):	7.50
Overall Width (in):	9.69	Mounting Width (in):	7.50
Overall Height (in):	19.94	Mounting Height (in):	17.17 *
Suction Size (in):	7/8 Stub		
Discharge Size (in):	1/2 Stub		
Oil Recharge (oz):	34		
Initial Oil Charge (oz):	42		
Net Weight (lbs):	60.8		
Internal Free Volume (in^3):	226.3		
Horse Power:	3.5		
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	48.0	MCC (Amps):	9.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	
LRA Low*:		Max Operating Current:	8.0		
RLA(=MCC/1.4;use for contactor selection):	6.4				
RLA(=MCC/1.56;use for breaker & wire size	5.8				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-407C HFC	50	3	380/420	Air Conditioning
R-22 HCFC	50	3	380/420	Air Conditioning
R-407C HFC	60	3	460	Air Conditioning

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND

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Accessories

<u>PartNumber</u>	<u>Description</u>
018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length
018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length
018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length
018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length
018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
018-0096-06	Crankcase Heater, 240V, 40W, 31.75" Lead Length

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
800	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-
803	Stub	7/8"	Stub	1/2"		-	-	-	-	-	-
830	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-

* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.