

ZB38KCE-TF5

HCFC, R-22, 60Hz, 3- Phase, 200/230 V
High Temp



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)	<u>45 / 130</u>	<u>20 / 120</u>
RG(°F)/Liq(°F)	<u>65 / 130</u>	<u>65 / 120</u>
Capacity (Btu/hr)	57500	37000
Power (Watts):	5400	4700
Current (Amps):	16.70	15.10
EER (Btu/Wh):	10.60	7.90
Mass Flow (lbs/hr):	905	540
Sound Power (dBA):	74 Avg	79 Max
Vibration (mils(peak-)	2.0 Avg	3.0 Max
Record Date:	2009-10-14	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	5.04
Bore Size(in):	0.00	Displ(ft ³ /hr):	612.50
Stroke(in):	0.00		
Overall Length (in):	10.12	Mounting Length (in):	7.50
Overall Width (in):	9.67	Mounting Width (in):	7.50
Overall Height (in):	17.23	Mounting Height (in):	17.98 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		60	
Initial Oil Charge (oz):		64	
Net Weight (lbs):		82.5	
Internal Free Volume (in ³):		256.0	
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	128.0	MCC (Amps):	29.0	UL File No:	
LRA-Half Winding:		RPM:		UL File Date:	15-Jun-1994
LRA Low*:		Max Operating Current:	22.38		
RLA(=MCC/1.4;use for contactor selection):			20.7		
RLA(=MCC/1.56;use for breaker & wire size)			18.6		
*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	200/220	Medium Temperature
R-407A HFC	50	3	200/220	Medium Temperature
R-407F HFC	50	3	200/220	Medium Temperature
R-404A HFC	50	3	200/220	Medium Temperature
R-134a HFC	50	3	200/220	High Temp
R-507 HFC	50	3	200/220	Medium Temperature
R-407C HFC	60	3	200/230	Medium Temperature
R-407A HFC	60	3	200/230	Medium Temperature
R-407F HFC	60	3	200/230	Medium Temperature
R-404A HFC	60	3	200/230	Medium Temperature
R-507 HFC	60	3	200/230	Medium Temperature

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-134a HFC	60	3	200/230	High Temp
R-407C HFC	50	3	200/220	High Temp
R-22 HCFC	50	3	200/220	High Temp
R-407C HFC	60	3	200/230	High Temp

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
2	527-0116-00	1	SPACER-MOUNTING ASSM	
99	910-0715-00	1	OIL ADJUSTMENT VALVE KIT	
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
11	998-0010-02	1	ALL REF SCROLL SG KIT	
13	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER KIT
13	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT
13	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER KIT
13	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT
8	998-0510-90	1	SERV VALVE KIT 7/8 SWT	SUCTION ROTALOCK
7	998-0510-98	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
9	998-7024-00	1	HEATER JUNCTION BOX KIT	

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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
527-0158-00	Kit: Hard Mount, 1.42" OD, 0.34" ID, 0.92" Height
998-0540-04	Discharge gas thermostat kit 5/8" Line
998-0548-01	Kit: Discharge Line Thermostat, 3/4" DLT-Stat 36" Leads With Alarm
998-5100-62	Kit: Service Valve, Includes Rotalock Service Valves and seals, 7/8" Valve, 3/4" Valve, 1" Valve Seal, 3/4" Valve Seal
998-7022-04	Kit: Discharge Line Thermostat, 5/8", 36" Leads (Conduit Ready)
998-7022-07	Kit: Discharge Line Thermostat, 3/4", 36" Leads (Conduit Ready)
013-0094-00	Liquid Line Filter
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

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<u>PartNumber</u>	<u>Description</u>
085-0160-00	3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.
085-CP2M-7K	Dual High and Low Pressure Cut-Out Control
495-3803-00	Oil Control Reference Drawing
505-0788-00	Sound Blanket for ZF13K-ZF18K, ZS30K-ZS45K, ZB30K-ZB45K
527-0116-00	Kit: Spacer Mounting, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height
527-0157-00	Kit: High Durometer Mount, 60-70 Durometer, 1.62" OD, 0.44" ID, 1.16" Height
918-0043-00	Kit: Crankcase Heater, 240V, 70W, Wrap Around 48" Leads
918-0043-01	Kit: Crankcase Heater, 480V, 70W, Wrap Around 48" Leads
918-0043-02	Kit: Crankcase Heater, 575V, 70W, Wrap Around 48" Leads
918-0043-07	Kit: Crankcase Heater, 120V, 70W, Wrap Around 48" Leads
998-0069-00	Kit: Adapter and Seal, 7/8" Sweat to 1 1/4"-12 Rotalock and 1"-14 Rotalock to 1/2" Sweat
998-0157-00	Oil Level Control
998-0540-00	Kit: Discharge Line Thermostat, 1/2" DLT-Stat 12" Leads, 2-Wire
998-0548-00	Kit: Discharge Line Thermostat, 1/2" DLT-Stat 36" Leads With Alarm
998-5100-42	Kit: Service Valve, Includes Rotalock Service Valves and seals, 7/8" Valve, 1/2" Valve, 1" Valve Seal, 3/4" Valve Seal
998-7022-02	Kit: Discharge Line Thermostat, 1/2", 36" Leads (Conduit Ready)
998-7022-03	Discharge Line Thermostat with 3/8" connector.
998-E022-01	Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.

Common U.S. OEM 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
20A	Stub	7/8"	Stub	1/2"		-	Yes	-	-	-	-
210	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	-	-	-	-	-
250	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	Yes	-	-	-	-
25A	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	Yes	-	-	-	-
265	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	Yes	-	-	-	-

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
950	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	Yes	Yes	-	-	-	-
965	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	Yes	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.