

ZR108KCE-TFD

HFC, R-407C, 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

<u>Evap(°F)/Cond(°F)</u>	<u>45 / 130</u>	<u>45 / 100</u>
	<u>65 / Jasper_SubC</u>	<u>65 / Jasper_SubC</u>
	90500	92700
Capacity (Btu/hr)	9220	6550
Power (Watts):	14.00	10.90
Current (Amps):	11.50	19.40
EER (Btu/Wh):	1540	1580
Mass Flow (lbs/hr):		
Sound Power (dBA):	80 Avg	85 Max
Vibration (mils(peak- Vibration (mils(peak- Record Date:	3.0 Avg	4.0 Max
	2007-07-31	
<u>Jasper_RGSubCool</u>		

Mechanical

Number of Cylinders:0	Displ(in^3/Rev):	8.72
Bore Size(in):	0.00	Displ(ft^3/hr):
Stroke(in):	0.00	1059.85
Overall Length (in):	10.38	Mounting Length (in):
Overall Width (in):	11.23	7.50
Overall Height (in):	21.00	Mounting Width (in):
		7.50
		Mounting Height (in):
		21.75 *
Suction Size (in):	1 3/8 Stub	
Discharge Size (in):	7/8 Stub	
Oil Recharge (oz):	106	
Initial Oil Charge (oz):	110	
Net Weight (lbs):	132	
Internal Free Volume (in^3):	809.0	
Horse Power:	9	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.		

Electrical

LRA-High*:	114	MCC (Amps):	24.2	UL File No:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	27-Sep-1996
LRA Low*:		Max Operating Current:	17.7		
RLA(=MCC/1.4;use for contactor selection):			17.3		
RLA(=MCC/1.56;use for breaker & wire size			15.5		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-134a HFC	60	3	460	Air Conditioning
R-134a HFC	50	3	380/420	Air Conditioning
R-407C HFC	50	3	380/420	Air Conditioning

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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	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
1	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
1	918-0047-02	1	HEATER-CRANKCASE	480V 90W WRAP AROUND
11	998-0010-00	1	ALL AC SCROLL SG KIT	
13	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	DISCHARGE SWEAT TO ROTALOCK
13	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	DISCHARGE SWEAT TO ROTALOCK
13	998-0034-04	1	ADPTR 13/8 ID TO 13/4-12	SUCTION SWEAT TO ROTALOCK
13	998-0034-04	1	ADPTR 13/8 ID TO 13/4-12	SUCTION SWEAT TO ROTALOCK
13	998-0034-07	1	ADPTR 11/4-12 TO 3/4 ID	DISCHARGE ROTALOCK TO SWEAT
13	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	DISCHARGE ROTALOCK TO SWEAT
13	998-0034-10	1	ADPTR 13/4-12 TO 11/8 ID	SUCTION ROTALOCK TO SWEAT
13	998-0034-13	1	ADPTR 13/4-12 TO 13/8 ID	SUCTION ROTALOCK TO SWEAT

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Accessories

<u>PartNumber</u>	<u>Description</u>
018-0067-03	Crankcase Heater, 575v, 90w, wrap around, 48" leads.
018-0091-00	Crankcase Heater, 120 volts, 90 watts, 48 inch
018-0091-01	Crankcase Heater, 240 volts, 90 watts, 48 inch
018-0091-02	Crankcase Heater, 480 volts, 90 watts, 48 inch
020-0028-02	1 1/4" - 12 discharge valve seal
020-0028-03	1 3/4" - 12 valve seal
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.
510-0080-04	3/4" discharge valve (solder)
510-0080-07	7/8" discharge valve (solder)
510-0330-00	Discharge Valve-Rotalock Assm
510-0330-01	1 1/8" suction valve (solder)
527-0210-00	Kit: Spacer Mounting, 55-65 Durometer, 1.62" OD, 0.44" ID, 1.75" Height
998-0243-00	Thermostat Kit, contains both thermostats for models manufactured both before, & after 89G date code
998-0510-02	Suction valve kit includes. 1 1/8" rotalock suction service valve (510-0330-01) and 1 3/4" - 12 suction valve seal (020-0028-03)
998-0510-38	Kit: Service Valve, Includes 3/4" Rotalock Service Valve and 1 1/4"-12 Valve Seal
998-0510-39	Kit: Service Valve, Includes 7/8" Rotalock Service Valve and 1 1/4"-12 Valve Seal
998-0510-46	Kit: Service Valve, Includes Service Valve and Seal, Rotalock, 1 3/8" Sweat
998-5100-24	Suction & Discharge Valve Kit. includes rotalock suction and discharge service valves and seals. 1 1/8" Suction Valve, 3/4" Discharge Valve, 1 3/4" - 12 Suction Valve Seal, 1 1/4" - 12 Discharge Valve Seal
998-5100-25	Suction & Discharge Valve Kit. includes rotalock suction and discharge service valves and seals. 1 3/8" Suction Valve, 3/4" Discharge Valve, 1 3/4" - 12 Suction Valve Seal, 1 1/4" - 12 Discharge Valve Seal
998-5100-27	Kit: Service Valve, Includes Rotalock Service Valves and seals, 1 3/8" Valve, 7/8" Valve, 1 3/4"-12 Valve Seal, 1 1/4" Valve Seal
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
250	Stub	1 3/8"	Stub	7/8"	SCREW	-	-	-	-	-	-
265	Rotalock	1 3/4"	Rotalock	1 1/4"	SCREW	-	-	-	-	-	-

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	1 3/8"	Stub	7/8"	SCREW	Yes	Yes	-	-	-	-
965	Rotalock	1 3/4"	Rotalock	1 1/4"	SCREW	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.