

ZR190KCE-TWD

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

Evap(°F)/Cond(°F)	<u>45 / 130</u>	<u>35 / 120</u>
RG(°F)/SubCool(°F)	<u>65 / 15</u>	<u>55 / 15</u>
Capacity (Btu/hr)	181000	156000
Power (Watts):	16650	14650
Current (Amps):	26.20	23.95
EER (Btu/Wh):	10.90	10.70
Mass Flow (lbs/hr):	2630	2180
Sound Power (dBA):	83 Avg	88 Max
Vibration (mils(peak-))	3.0 Avg	4.5 Max
Record Date:	2007-10-31	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	15.20
Bore Size(in):	0.00	Displ(ft ³ /hr):	1847.47
Stroke(in):	0.00		
Overall Length (in):	12.83	Mounting Length (in):	7.50
Overall Width (in):	11.61	Mounting Width (in):	7.50
Overall Height (in):	21.72	Mounting Height (in):	23.03 *
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):	146		
Internal Free Volume (in ³):	856.0		
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	173.0	MCC (Amps):	44.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	27-Sep-1996
LRA Low*:		Max Operating Current:	34.0		
RLA(=MCC/1.4;use for contactor selection):			31.4		
RLA(=MCC/1.56;use for breaker & wire size)			28.2		
*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-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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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	Spacer Mounting Assembly
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	Discharge valve kit. includes 3/4" rotalock discharge service valve (510-0080-04) and 1 1/4" - 12 suction valve seal (020-0028-02)
998-0510-39	Discharge valve kit. includes 7/8" rotalock discharge service valve (510-0080-07) and 1 1/4" - 12 suction valve seal (020-0028-02)
998-0510-46	Service valve kit. includes 1 3/8" rotalock discharge service valve (510-0330-03)
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	Suction & Discharge Valve Kit. includes rotalock suction and discharge service valves and seals. 1 3/8" Suction Valve, 7/8" Discharge Valve, 1 3/4" - 12 Suction Valve Seal, 1 1/4" - 12 Discharge 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.

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
2	527-0210-00	1	SPACER-MOUNTING ASSM	
1	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
1	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
99	971-0641-00	1	PROTECTOR KIT	120/240V MODULE
99	971-0641-01	1	PROTECTOR KIT	24V MODULE
11	998-0010-00	1	SIGHTGLASS 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

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.