

# ZR57KCE-TFD

HFC, R-407C, 60 Hz, 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

Evaporator Temp. (°F)	45	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (Btu/hr)	56200	67100
Power (W):	5110	3610
Current (Amps):	7.95	6.35
EER (Btu/Wh):	11.00	18.60
Mass Flow (lbs/hr):	812	829
<u>Sound Data @</u>		
Sound Power (dBA):	74 Avg	79 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2014-08-05	

## Mechanical

Displacment(in <sup>3</sup> /Rev):	4.71
Displacment(ft <sup>3</sup> /hr):	572.40
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	17.75
Mounting Length (in):	7.50
Mounting Width (in):	7.50
Mounting Height (in):	18.00 *
Suction Size (in),Type:	7/8 Stub
Discharge Size (in),Type:	1/2 Stub
Initial Oil Charge (oz):	66
Oil Recharge (oz):	62
Net Weight (lbs):	80.0
Internal Free Volume (in <sup>3</sup> ):	275.0
Horse Power:	4.75

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

## Electrical

LRA-High*(Amp):	59.6
LRA Low* (Amp):	
LRA-Half Winding (Amp):	
MCC (Amps):	11.6
Max Operating Current(Amp):	11.0
RLA, MCC/1.4;use for contactor selection (Amp):	8.3
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	7.4
RPM:	3500
UL File No:	SA-2337
UL File Date:	1993-07-26

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

## Capacitors

## Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-407C HFC	380/420	3	50	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	
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND

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## Accessories

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
Crankcase Heaters	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
	018-0095-00	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
	918-0043-00	Crankcase Heater Kit, 240V, 70W, Wrap Around, 48" Lead Length
	918-0043-01	Crankcase Heater Kit, 480V, 70W, Wrap Around, 48" Lead Length
	918-0043-02	Crankcase Heater Kit, 575V, 70W, Wrap Around, 48" Lead Length

Scott Kohler  
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<b><u>Category</u></b>	<b><u>PartNumber</u></b>	<b><u>Description</u></b>
	918-0043-07	Crankcase Heater Kit, 120V, 70W, Wrap Around, 48" Lead Length
Electrical	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.
Miscellaneous	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.
Mounting	527-0116-00	Spacer Mounting Kit, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height

**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
230	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	-	-	-	-	-
250	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	-	-	-	-	-	-
260	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	-	-	-	-	-
265	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2 Conduit	-	-	-	-	-	-

**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
803	Stub	7/8"	Stub	1/2"		-	-	-	-	-	-
830	Stub	7/8"	Stub	1/2"		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
930	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	Yes	-	-	-	-	-
950	Stub	7/8"	Stub	1/2"	SCREW 1/2 Conduit	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.