

ZP385KCE-TED

HFC, R-410A, 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	35 / 120
RG(°F)/Liq(°F)	65.0 / 115.0	55.0 / 105.0
Capacity (Btu/hr)	385000	343000
Power (Watts):	34700	30600
Current (Amps):	49.90	44.60
EER (Btu/Wh):	11.10	11.20
Mass Flow (lbs/hr):	5650	4790
Sound Power (dBA):	89 Avg	94 Max
Vibration (mils(peak-))	3.5 Avg	5.0 Max
Record Date:	2014-03-18	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	21.32
Bore Size(in):	0.00	Displ(ft ³ /hr):	2590.98
Stroke(in):	0.00		
Overall Length (in):	17.60	Mounting Length (in):	10.50
Overall Width (in):	16.80	Mounting Width (in):	10.50
Overall Height (in):	28.50	Mounting Height (in):	28.90 *
Suction Size (in):	1 5/8 Stub		
Discharge Size (in):	1 3/8 Stub		
Oil Recharge (oz):	203		
Initial Oil Charge (oz):	213		
Net Weight (lbs):	390		
Internal Free Volume (in ³):	1931.0		
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	310.0	MCC (Amps):	85.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	28-Nov-2000
LRA Low*:		Max Operating Current:	65.4		
RLA(=MCC/1.4;use for contactor selection):			60.7		
RLA(=MCC/1.56;use for breaker & wire size)			54.5		
*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-410A HFC	50	3	380/420	Air Conditioning
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RATING CONDITIONS

20 °F Superheat
 15 °F Subcooling
 95 °F Ambient Air Over

60 Hz Operation

AIR CONDITIONING

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HFC-410A
 COPELAND SCROLL®
 TED 460-3-60

Evaporating Temperature °F (Sat Dew Pt Pressure, psig)

-20(26) -10(36) 5(55) 20(78) 30(97) 40(118) 55(155) 70(200) 80(235)

Condensing Temperature °F (Sat Dew Pt Pressure, psig)		Evaporating Temperature °F (Sat Dew Pt Pressure, psig)								
		-20(26)	-10(36)	5(55)	20(78)	30(97)	40(118)	55(155)	70(200)	80(235)
150 (611)	C						289000	385000		
	P						43100	44000		
	A						61.4	62.3		
	M						5050	6550		
	E						6.7	8.8		
%						67.7	71.3			
140 (540)	C					260000	320000	425000	547000	641000
	P					38200	38600	39400	40800	42100
	A					54.6	55	56.1	57.8	59.4
	M					4220	5100	6650	8450	9750
	E					6.8	8.3	10.8	13.4	15.2
%					66.8	70.7	72.9	70.1	65.3	
125 (446)	C				240000	298000	364000	480000	616000	720000
	P				31900	32200	32600	33500	35000	36500
	A				46.3	46.6	47.1	48.3	50.2	52.1
	M				3520	4320	5200	6750	8550	9900
	E				7.5	9.3	11.2	14.3	17.6	19.8
%				66.9	71.3	73.7	73	66.3	58.4	
110 (364)	C			190000	269000	332000	405000	531000	682000	
	P			26500	26900	27300	27700	28800	30500	
	A			39.4	39.9	40.4	41	42.3	44.5	
	M			2600	3610	4400	5300	6850	8650	
	E			7.2	10	12.2	14.6	18.4	22.4	
%			63.4	70.9	73.6	73.9	69	57.2		
100 (316)	C		140000	204000	287000	353000	430000	564000		
	P		23100	23600	24100	24500	25000	26200		
	A		35.3	35.9	36.5	37	37.6	39.2		
	M		1860	2650	3650	4440	5350	6900		
	E		6.1	8.6	11.9	14.4	17.2	21.5		
%		57.7	66.3	72.1	73.2	71.6	63.3			
90 (273)	C	117000	151000	217000	303000	373000	453000	595000		
	P	20100	20500	21100	21600	22100	22700	24100		
	A	31.7	32.2	32.9	33.5	34.1	34.9	36.6		
	M	1500	1900	2680	3680	4470	5350	6950		
	E	5.9	7.4	10.3	14	16.9	19.9	24.7		
%	55.9	61.2	68.1	71.5	70.8	66.9	54.5			
75 (217)	C	132000	167000	235000	326000	401000	487000			
	P	16700	17200	17900	18600	19200	20000			
	A	27.8	28.4	29.1	29.9	30.6	31.5			
	M	1540	1930	2690	3680	4480	5400			
	E	7.9	9.7	13.1	17.5	20.8	24.3			
%	61	64.2	67.7	66.8	62.4	54.3				
60 (170)	C	146000	180000	251000	347000	426000				
	P	13800	14400	15300	16300	17100				
	A	24.6	25.2	26	27	27.8				
	M	1540	1910	2660	3640	4440				
	E	10.5	12.5	16.4	21.3	24.9				
%	62.9	63.5	62.5	56	47.3					
50 (142)	C	154000	188000	260000	359000					
	P	12100	12800	13900	15000					
	A	22.6	23.2	24.2	25.3					
	M	1500	1870	2600	3590					
	E	12.7	14.6	18.8	23.9					
%	61.8	60.4	55.9	45.3						

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 460 V

C:Capacity(Btu/hr), P:Power(Watts), A:Current(Amps), M:Mass Flow(lbs/hr), E:EER(Btu/Watt-hr), %:Isentropic Efficiency(%)

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Electrical Components

Part No:	571-0064-05	Usage Description	115-240V
<u>Vendor Part Number</u>		<u>Vendor Name</u>	
14800070		WKK	

Part No:	571-0064-06	Usage Description	115-240V
<u>Vendor Part Number</u>		<u>Vendor Name</u>	
14800070		WKK	

Part No:	571-0065-04	Usage Description	24V
<u>Vendor Part Number</u>		<u>Vendor Name</u>	
14800170		WKK	

Part No:	571-0065-05	Usage Description	24V
<u>Vendor Part Number</u>		<u>Vendor Name</u>	
14800170		WKK	

Stator	046-1111-00	Usage Description		
Resistance:	+/-7%	Line to Line:	0.35	Line to Wye: 0.00

Stator	046-5150-01	Usage Description		
Resistance:	+/-7%	Line to Line:	0.36	Line to Wye: 0.00

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"	SCREW	-	Yes	-	-	-	No
251			Stub	1 3/8"	SCREW	-	Yes	-	-	-	-
265	Rotalock	2 1/4"	Rotalock	1 3/4"	SCREW	-	Yes	-	Yes	-	-
266	Rotalock	2 1/4"	Rotalock	1 3/4"	SCREW	-	Yes	-	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
951			Stub	1 3/8"	SCREW	Yes	Yes	-	-	-	-
965						-	-	-	-	-	-
966	Rotalock	2 1/4"	Rotalock	1 3/4"	SCREW	Yes	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.