

ZPD182KCE-TE5

HFC, R-410A, 60 Hz, 3 -phase, 200/230 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	45 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	65.0 / 85.0
Capacity (Btu/hr)	183000	223000
Power (Watts):	16700	12500
Current (Amps):	53.40	44.10
EER (Btu/Wh):	11.00	17.80
Mass Flow (lbs/hr):	2690	2750
Sound Data @		
Sound Power (dBA):	82 Avg	87 Max
Vibration (mils(peak-peak)):	3.0 Avg	4.5 Max
Record Date:	2014-11-12	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	10.20
Bore Size(in):	0.00	Displ(ft ³ /hr):	1239.34
Stroke(in):	0.00		
Overall Length (in):	12.94	Mounting Length (in):	7.50
Overall Width (in):	11.73	Mounting Width (in):	7.50
Overall Height (in):	22.21	Mounting Height (in):	23.02 *
Suction Size (in):	1 3/8 Stub		
Discharge Size (in):	7/8 Stub		
Oil Recharge (oz):	110		
Initial Oil Charge (oz):	114		
Net Weight (lbs):	147		
Internal Free Volume (in ³):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	340.0	MCC (Amps):	87.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	07-Feb-2007
LRA Low*:		Max Operating Current:	74.0		
RLA(=MCC/1.4;use for contactor selection):	62.1				
RLA(=MCC/1.56;use for breaker & wire size selection):	55.8				
*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	200/220	Air Conditioning
R-410A HFC	60	3	200/230	A/C, 50% Load Of Compressor
R-410A HFC	50	3	200/220	A/C, 50% Load Of Compressor

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®
 TE5 200/230-3-60

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

	-10.0 (36)	0.0 (48)	5.0 (55)	15.0 (70)	25.0 (87)	35.0 (107)	45.0 (130)	50.0 (143)	55.0 (156)
150.0 (613)									
C							150,000	166,000	182,000
P							20,700	20,800	20,900
A							63.1	63.3	63.4
M							2,600	2,850	3,110
E							7.3	8.0	8.7
%							68.7	70.2	71.3
140.0 (541)									
C						136,000	167,000	184,000	201,000
P						18,400	18,500	18,600	18,800
A						57.4	57.8	58.0	58.1
M						2,190	2,640	2,890	3,150
E						7.4	9.0	9.8	10.7
%						68.0	71.3	72.3	72.7
130.0 (477)									
C					122,000	150,000	183,000	200,000	219,000
P					16,400	16,500	16,700	16,800	17,000
A					52.5	52.9	53.4	53.5	53.6
M					1,840	2,240	2,690	2,930	3,190
E					7.4	9.1	11.0	11.9	12.9
%					66.7	70.8	72.9	73.1	72.7
125.0 (447)									
C				102,000	127,000	156,000	190,000	208,000	228,000
P				15,400	15,500	15,600	15,800	16,000	16,200
A				50.2	50.5	51.0	51.4	51.6	51.6
M				1,510	1,860	2,250	2,700	2,950	3,210
E				6.6	8.2	10.0	12.0	13.0	14.1
%				63.3	68.2	71.7	73.2	72.9	72.0
115.0 (391)									
C			87,500	110,000	137,000	169,000	204,000	223,000	244,000
P			13,700	13,800	13,900	14,100	14,300	14,500	14,700
A			46.6	46.7	47.1	47.6	48.1	48.2	48.2
M			1,230	1,540	1,880	2,280	2,730	2,970	3,230
E			6.4	8.0	9.9	12.0	14.2	15.4	16.6
%			60.8	66.1	70.2	72.5	72.3	71.1	69.1
105.0 (341)									
C		83,500	94,500	119,000	147,000	180,000	217,000	237,000	258,000
P		12,200	12,300	12,400	12,600	12,700	13,000	13,300	13,500
A		43.5	43.5	43.8	44.3	44.9	45.3	45.4	45.3
M		1,120	1,250	1,560	1,900	2,300	2,740	2,980	3,240
E		6.8	7.7	9.5	11.7	14.1	16.6	17.9	19.1
%		60.8	63.4	67.9	70.8	71.5	69.3	66.9	63.7
100.0 (318)									
C	67,500	86,500	97,500	123,000	152,000	185,000	223,000	243,000	265,000
P	11,300	11,600	11,700	11,800	11,900	12,100	12,500	12,700	13,000
A	42.4	42.1	42.1	42.5	43.1	43.7	44.1	44.1	44.0
M	895	1,130	1,260	1,560	1,910	2,300	2,750	2,990	3,240
E	6.0	7.5	8.4	10.4	12.7	15.2	17.8	19.1	20.4
%	56.8	61.9	64.3	68.3	70.5	70.2	66.8	63.9	60.0
90.0 (274)									
C	72,500	92,500	104,000	130,000	160,000	195,000	234,000	255,000	278,000
P	10,200	10,400	10,500	10,700	10,900	11,100	11,500	11,800	12,100
A	39.6	39.6	39.7	40.3	40.9	41.6	41.9	41.9	41.8
M	910	1,140	1,280	1,580	1,920	2,310	2,750	2,980	3,230
E	7.1	8.8	9.9	12.1	14.7	17.5	20.3	21.7	22.9
%	59.1	63.3	65.2	67.8	68.3	65.9	60.1	55.8	50.7
80.0 (236)									
C	77,500	98,000	110,000	136,000	168,000	203,000	244,000	266,000	289,000
P	9,250	9,450	9,550	9,700	9,950	10,200	10,700	11,000	11,400
A	37.2	37.4	37.7	38.4	39.1	39.8	40.1	40.0	39.8
M	925	1,160	1,290	1,580	1,920	2,300	2,730	2,970	3,210
E	8.4	10.3	11.5	14.0	16.9	19.8	22.7	24.1	25.3
%	60.5	63.5	64.7	65.6	64.0	59.1	50.6	45.1	38.7

C: Capacity (Btu/hr), P: Power (W), A: Current (Amps), M: Mass Flow (lb/hr), E: EER (Btu/Wh), %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 230 V

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Electrical Components

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

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

Stator	046-0124-03	Usage Description	
Resistance:	+/-7%	Line to Line:	0.21
		Line to Wye:	0.00

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
99	527-0210-00	1	SPACER-MOUNTING ASSM	
99	910-0182-00	1	VALVE-SOLENOID	
99	910-0715-00	1	OIL ADJUSTMENT VALVE KIT	
99	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
99	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
99	971-0064-05	1	KIT 110 V MODULE	120/240V MODULE
99	971-0065-04	1	KIT 24 V MODULE	24V MODULE
99	998-0010-00	1	ALL AC SCROLL SG KIT	
99	998-0060-03	1	KIT-HOLDING COIL	24 VOLT
99	998-0060-04	1	KIT-HOLDING COIL	120 VOLT
99	998-0060-05	1	KIT-HOLDING COIL	220 VOLT
99	998-0510-46	1	SERV VALVE KIT 1 3/8 SWT	SUCTION
99	998-0510-64	1	SERV VALVE KIT 7/8 SWT	DISCHARGE

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Accessories

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
Digital Components	543-0024-01	Digital Compressor Controller
	998-0060-09	240V Digital Solenoid Coil