

ZR94KCE-TFD

HFC, R-407C, 50 Hz, 3 - Phase, 380/420 V [. Also Available with Variable Frequency Drives](#)

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			Mechanical	
Evaporator Temp. (°C)	7	2	Displacement (cm ³ /Rev):	127.16
Condensing Temp. (°C)	54	49	Displacement (m ³ /Hr):	
Return Gas Temp. (°C)	18	13	Overall Length (mm):	263.65
Liquid Temp. (°C)	46	41	Overall Width (mm):	285.24
Capacity (Watts)	23035	19958	Overall Height (mm):	476.25
Power (W):	6950	6120	Mounting Length (mm):	190.50
Current (Amps):	12.85	11.8	Mounting Width (mm):	190.50
EER(BTU/Wh):	19.20	18.94	Mounting Height (mm):	495.30
Mass Flow (lbs/hr):	143.64	119.95	Suction Size (mm),Type:	279.40 / 203.20 Stub
Sound Data @			Discharge Size (mm),Type:	177.80 / 203.20 Stub
Sound Power (dBA):	74 Avg	79 Max	Initial Oil Charge (ml):	2513.79
Vibration mils(peak-peak):	3.0 Avg	4.5 Max	Oil Recharge (ml):	2395.49
Record Date:	2016-06-24		Net Weight (kg):	57.15
			Internal Free Volume (cm ³):	10471.29
			Horse Power:	8.0

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

Electrical		Capacitors					
		Type	Part No	Low MFD	High MFD	Volts	User Description
LRA High* (Amps):	95.0						
LRA Low*(Amps):	86.0	No data available in table					
LRA Half Winding (Amps):							
MCC (Amps):	23						
Max Operating Current (Amps):	15.9						
RLA, MCC/1.4(use for contactor selection)(Amps):	16.4						
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	14.7						
RPM:	2900						
Box IP :	21						
UL File No:	SA-2337						
UL File Date:	1996-09-27						

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

Rating Conditions

11.1 K Superheat
 8.3 K Subcooling
 35 °C Ambient Air Over

50 Hz Operation

AIR CONDITIONING

ZR94KCE-TFD

HFC-407C - Dew Pt.
 COPELAND SCROLL®
 TFD 380/420-3-50

Condensing Temperature °C
 (Sat. Dew Pt. Pressure, bar)

Evaporating Temperature °C (Sat. Dew Pt. Pressure, bar)

	-29.0 (1.5)	-23.0 (1.9)	-18.0 (2.3)	-12.0 (3)	-7.0 (3.6)	0.0 (4.6)	5.0 (5.5)	10.0 (6.4)	13.0 (7.1)	16.0 (7.8)	18.0 (8.3)	21.0 (9.1)
65.0 (28.4)								21,500	24,300	27,300	29,400	32,700
C								8,970	8,910	8,830	8,780	8,700
P								15.5	15.4	15.3	15.2	15.1
A								150	168	187	200	220
M								2.4	2.7	3.1	3.4	3.8
E								64.2	67.4	70.1	71.6	73.4
%												
60.0 (25.3)							19,100	23,500	26,400	29,500	31,700	35,200
C							8,000	7,920	7,860	7,810	7,760	7,700
P							14.2	14.1	14.0	13.9	13.9	13.8
A							128	155	172	191	203	223
M							2.4	3.0	3.4	3.8	4.1	4.6
E							63.6	69.1	71.6	73.6	74.6	75.6
%												
55.0 (22.5)						16,800	20,900	25,400	28,400	31,600	33,800	37,400
C						7,120	7,070	7,000	6,960	6,910	6,880	6,830
P						13.1	13.0	12.9	12.9	12.8	12.8	12.7
A						108	132	158	175	193	205	225
M						2.4	3.0	3.6	4.1	4.6	4.9	5.5
E						62.7	68.5	72.7	74.5	75.6	76.0	75.9
%												
49.0 (19.4)					13,500	18,600	22,800	27,400	30,500	33,800	36,200	40,000
C					6,170	6,150	6,110	6,070	6,040	6,010	5,980	5,940
P					11.9	11.9	11.8	11.8	11.7	11.7	11.7	11.6
A					83	112	135	161	177	195	207	226
M					2.2	3.0	3.7	4.5	5.1	5.6	6.1	6.7
E					59.7	68.3	72.5	75.0	75.6	75.5	75.0	73.5
%												
43.0 (16.7)				11,800	15,000	20,100	24,400	29,200	32,400	35,900	38,300	42,300
C				5,320	5,340	5,330	5,310	5,290	5,270	5,240	5,230	5,200
P				10.9	10.9	10.9	10.9	10.9	10.8	10.8	10.8	10.8
A				70	87	115	137	162	178	195	207	227
M				2.2	2.8	3.8	4.6	5.5	6.2	6.8	7.3	8.1
E				59.1	65.5	71.7	74.0	74.5	73.8	72.2	70.6	67.2
%												
38.0 (14.6)			9,400	12,800	15,950	21,200	25,500	30,500	33,800	37,400	40,000	44,100
C			4,680	4,730	4,750	4,750	4,750	4,730	4,710	4,700	4,690	4,670
P			10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2
A			54	72	89	116	137	162	178	195	207	227
M			2.0	2.7	3.4	4.5	5.4	6.5	7.2	8.0	8.5	9.5
E			55.6	63.6	68.4	72.5	73.2	71.7	69.6	66.5	63.8	58.7
%												
27.0 (10.8)		8,740	11,050	14,300	17,500	22,900	27,500	32,900				
C		3,580	3,640	3,680	3,700	3,720	3,720	3,720				
P		9.2	9.3	9.3	9.3	9.3	9.3	9.3				
A		47	58	74	89	115	136	160				
M		2.4	3.0	3.9	4.7	6.2	7.4	8.9				
E		58.8	63.5	67.1	68.5	67.3	63.5	56.6				
%												
21.0 (9.1)		9,340	11,550	14,800	18,050	23,600	28,400					
C		3,120	3,170	3,210	3,230	3,240	3,250					
P		8.9	8.9	8.9	9.0	9.0	9.0					
A		47	58	73	88	113	135					
M		3.0	3.7	4.6	5.6	7.3	8.8					
E		61.4	64.1	65.5	64.9	60.3	53.3					
%												
10.0 (6.4)		9,770	11,900	15,150	18,500							
C		2,370	2,390	2,410	2,410							
P		8.5	8.5	8.5	8.5							
A		46	56	70	85							
M		4.1	5.0	6.3	7.7							
E		60.5	60.0	57.3	52.3							
%												

C: Capacity (W), P: Power (W), A: Current (Amps), M: Mass Flow (gm/s), E: COP, %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 400 V