

ZR94KCE-TFD

HFC, R-407C, Dew Point, 50 Hz, 3 - Phase, 380/420 V
Air Conditioning

Performance

Evap(°F)/Cond(°F)	<u>45/130</u>	<u>45/100</u>
RG(°F)/Liq(°F)	<u>65/115</u>	<u>65/85</u>
Capacity (Btu/hr):	78600	94500
Power (Watts):	6950	4720
Current (Amps):	12.9	10.3
EER (Btu/Wh):	11.4	20.0
Mass Flow (lbs/hr):	1140.0	1175.0

Sound Power(dBA): 74 Ave 79 Max
Vibration (mils(peak-peak)): 3.0 Ave 4.5 Max

Record Date: 2007-12-06

Mechanical

Number of Cylinders:	0	Displ (in ³ /Rev):	7.758
Bore Size (in):	0.0	Displ (ft ³ /hr):	781.1840
Stroke (in):	0.0		

Overall Length (in): 10.38 Mounting Length (in): 7.5
Overall Width (in): 11.23 Mounting Width(in): 7.5
Overall Height (in): 18.75 Mounting Height (in): 19.5*

Suction Size (in): 1 1/8 Stub

Discharge Size (in): 7/8 Stub

Initial Oil Charge (oz): 85

Oil Recharge (oz): 81

Net Weight (lbs): 126.0

Internal Free Volume (in³): 639.0

HorsePower 8.0

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

Electrical

LRA-High*:	95.0	MCC (Amps):	23.0	UL File No.:	SA-2337
LRA-Half Winding:		RPM:	2900	UL File Date:	27-Sep-1996
LRA-Low*:	86.0	Max Operating Current:	15.9	CSA File No.:	LR3104C

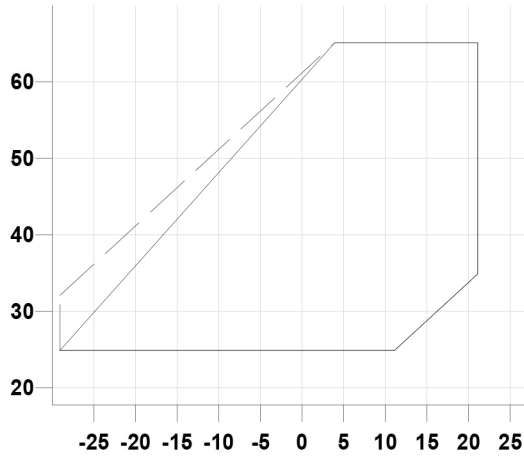
RLA(=MCC/1.4; use for contactor selection): 16.4

RLA (=MCC/1.56; use for breaker & wire size selection): 14.7

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

Alternate Applications

<u>Refrigerant</u>	<u>Frequency(Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-134a HFC	60	3	460	Air Conditioning
R-407C HFC	60	3	460	Air Conditioning
R-134a HFC	50	3	380/420	Air Conditioning



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 10K Suction Superheat

Suction Superheat 10.0K

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	7.61	9.65	12.00	14.75	17.95	21.80	26.20	28.20	31.40				
30	6.93	9.07	11.45	14.20	17.40	21.10	25.30	27.20	30.30	33.10	36.10		
35	6.03	8.29	10.75	13.50	16.65	20.20	24.40	26.20	29.20	31.80	34.70	41.00	
40		7.30	9.84	12.60	15.75	19.25	23.30	25.00	27.90	30.40	33.10	39.20	
45			8.73	11.55	14.65	18.10	22.00	23.70	26.50	28.90	31.50	37.30	
50				10.25	13.35	16.80	20.60	22.30	24.90	27.20	29.70	35.20	
55					11.90	15.25	19.00	20.60	23.20	25.40	27.80	33.10	
60						13.55	17.20	18.75	21.20	23.40	25.70	30.80	
65							15.20	16.75	19.15	21.20	23.50	28.30	
	Power Input kW												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	3.40	3.46	3.50	3.53	3.55	3.55	3.56	3.56	3.56				
30	3.81	3.87	3.92	3.95	3.97	3.98	3.98	3.97	3.97	3.97	3.96		
35	4.28	4.34	4.39	4.42	4.44	4.44	4.44	4.43	4.43	4.42	4.41	4.39	
40		4.89	4.94	4.97	4.98	4.98	4.96	4.96	4.94	4.93	4.91	4.88	
45			5.57	5.59	5.60	5.59	5.57	5.55	5.53	5.51	5.49	5.45	
50				6.32	6.32	6.30	6.26	6.24	6.21	6.19	6.16	6.09	
55					7.15	7.12	7.07	7.04	7.00	6.97	6.93	6.85	
60						8.06	8.00	7.97	7.92	7.87	7.83	7.72	
65							9.07	9.04	8.97	8.92	8.86	8.73	
	Current 400V, A												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	9.05	9.09	9.13	9.15	9.17	9.18	9.18	9.19	9.19				
30	9.38	9.43	9.47	9.50	9.52	9.53	9.53	9.53	9.52	9.52	9.51		
35	9.81	9.87	9.92	9.95	9.96	9.97	9.96	9.96	9.95	9.94	9.93	9.90	
40		10.43	10.48	10.50	10.52	10.51	10.50	10.49	10.47	10.46	10.44	10.39	
45			11.18	11.20	11.21	11.19	11.17	11.15	11.13	11.10	11.08	11.01	
50				12.05	12.05	12.03	11.99	11.97	11.93	11.90	11.86	11.77	
55					13.07	13.03	12.98	12.95	12.90	12.86	12.81	12.70	
60						14.24	14.16	14.12	14.06	14.01	13.95	13.81	
65							15.56	15.52	15.44	15.37	15.30	15.13	
	Mass Flow g/s												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	43.30	54.00	66.10	80.00	96.00	114.50	136.00	145.50	161.00				
30	41.20	53.00	65.90	80.50	97.00	115.50	137.00	146.50	162.00	175.00	190.00	222.00	
35	37.70	50.80	64.80	80.00	97.00	116.00	138.00	147.50	163.00	176.00	191.00	222.00	
40		47.10	62.40	78.50	96.50	116.00	138.00	147.50	163.00	176.00	191.00	223.00	
45			58.40	76.00	94.50	115.00	137.50	147.00	162.00	176.00	191.00	222.00	
50				71.50	91.50	112.50	136.00	145.50	161.00	175.00	190.00	222.00	
55					86.50	109.00	133.00	143.50	159.00	174.00	188.00	221.00	
60						103.50	129.00	139.50	156.00	171.00	186.00	219.00	
65							123.00	134.00	152.00	167.00	182.00	216.00	