

# ZR125KCE-TFD

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

## Performance

Evap(°F)/Cond(°F)	45/130	45/100
RG(°F)/Liq(°F)	65/115	65/85
Capacity (Btu/hr):	103000	124500
Power (Watts):	8950	6170
Current (Amps):	16	12.4
EER (Btu/Wh):	11.6	20.2
Mass Flow (lbs/hr):	1500.0	1545.0
Sound Power(dBA):	74 Ave	79 Max
Vibration (mils(peak-peak)):	3.0 Ave	4.5 Max
Record Date:	2007-12-06	

## Mechanical

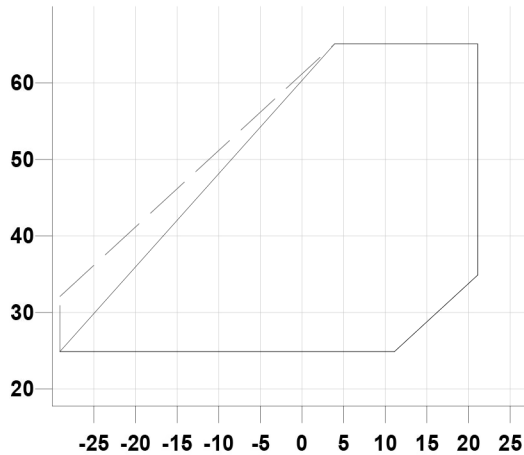
Number of Cylinders:	0	Displ (in <sup>3</sup> /Rev):	10.198
Bore Size (in):	0.0	Displ (ft <sup>3</sup> /hr):	1026.877
Stroke (in):	0.0		
Overall Length (in):	10.38	Mounting Length (in):	7.5
Overall Width (in):	11.23	Mounting Width(in):	7.5
Overall Height (in):	21.0	Mounting Height (in):	21.75*
Suction Size (in):	1 3/8 Stub		
Discharge Size (in):	7/8 Stub		
Initial Oil Charge (oz):	110		
Oil Recharge (oz):	106		
Net Weight (lbs):	135.0		
Internal Free Volume (in <sup>3</sup> ):	809.0		
HorsePower	10.0		
* Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	118.0	MCC (Amps):	26.9	UL File No.:	SA-2337
LRA-Half Winding:		RPM:	2900	UL File Date:	27-Sep-1996
LRA-Low*:	110.0	Max Operating Current:	19.6	CSA File No.:	LR3104C
RLA(=MCC/1.4; use for contactor selection): 19.2					
RLA ( =MCC/1.56; use for breaker & wire size selection): 17.2					
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
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	9.91	12.55	15.70	19.40	23.80	28.90	34.80	37.40	41.50				
30	9.21	11.85	14.95	18.60	22.80	27.80	33.50	36.00	40.10	43.70	47.60		
35	8.41	11.05	14.05	17.60	21.70	26.60	32.10	34.60	38.50	42.00	45.80	54.10	
40		10.10	13.10	16.55	20.50	25.20	30.50	32.90	36.70	40.10	43.70	51.70	
45			12.00	15.35	19.20	23.70	28.80	31.10	34.80	38.00	41.50	49.20	
50				14.00	17.75	22.00	27.00	29.10	32.60	35.80	39.10	46.50	
55					16.15	20.20	25.00	27.00	30.40	33.40	36.60	43.70	
60						18.35	22.80	24.80	28.00	30.80	33.90	40.60	
65							20.50	22.40	25.40	28.10	31.00	37.30	
	Power Input kW												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	4.38	4.44	4.49	4.53	4.60	4.69	4.83	4.90	5.03				
30	4.90	4.97	5.02	5.05	5.10	5.16	5.26	5.32	5.41	5.51	5.63		
35	5.46	5.55	5.61	5.65	5.68	5.72	5.79	5.83	5.90	5.97	6.06	6.29	
40		6.20	6.28	6.32	6.35	6.38	6.43	6.45	6.50	6.55	6.62	6.79	
45			7.03	7.09	7.12	7.15	7.18	7.19	7.23	7.26	7.31	7.43	
50				7.96	8.00	8.03	8.05	8.06	8.08	8.11	8.14	8.23	
55					9.01	9.04	9.07	9.07	9.08	9.10	9.12	9.18	
60						10.20	10.20	10.25	10.25	10.25	10.25	10.30	
65							11.55	11.55	11.55	11.55	11.55	11.60	
	Current 400V, A												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	10.61	10.67	10.71	10.76	10.82	10.91	11.05	11.13	11.26				
30	11.10	11.18	11.22	11.26	11.31	11.38	11.48	11.54	11.64	11.74	11.86		
35	11.69	11.79	11.85	11.89	11.93	11.98	12.05	12.09	12.17	12.25	12.34	12.59	
40		12.52	12.61	12.66	12.69	12.73	12.78	12.81	12.87	12.93	13.00	13.19	
45			13.51	13.58	13.63	13.66	13.70	13.72	13.76	13.80	13.85	14.00	
50				14.69	14.74	14.78	14.81	14.82	14.85	14.88	14.92	15.02	
55					16.06	16.11	16.14	16.15	16.17	16.19	16.22	16.29	
60						17.67	17.71	17.72	17.74	17.75	17.77	17.82	
65							19.54	19.55	19.57	19.58	19.60	19.63	
	Mass Flow g/s												
	-25	-20	-15	-10	-5	0	5	7	10	12.5	15	20	
25	56.30	70.30	86.50	105.50	127.00	152.00	180.00	193.00	213.00				
30	54.80	69.30	86.00	105.00	127.00	153.00	181.00	194.00	214.00	232.00	251.00		
35	52.60	67.60	85.00	104.50	127.00	152.00	182.00	194.00	215.00	233.00	252.00	294.00	
40		65.30	83.00	103.00	125.50	152.00	181.00	194.00	214.00	233.00	252.00	294.00	
45			80.00	100.50	124.00	150.00	180.00	193.00	213.00	232.00	251.00	294.00	
50				97.50	121.00	147.50	178.00	191.00	212.00	230.00	250.00	293.00	
55					117.50	144.50	175.00	188.00	209.00	228.00	248.00	291.00	
60						140.00	171.00	184.00	206.00	225.00	245.00	288.00	
65							166.00	180.00	201.00	220.00	241.00	285.00	