

ZR61KCE-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):	47800	58000
Power (Watts):	4460	3080
Current (Amps):	8.4	6.5
EER (Btu/Wh):	10.7	18.9
Mass Flow (lbs/hr):	695.0	720.0
Sound Power(dBA):	71 Ave	76 Max
Vibration (mils(peak-peak)):	2.0 Ave	3.0 Max
Record Date:	2006-03-15	

Mechanical

Number of Cylinders:	0	Displ (in ³ /Rev):	5.04
Bore Size (in):	0.0	Displ (ft ³ /hr):	507.4977
Stroke (in):	0.0		
Overall Length (in):	9.48	Mounting Length (in):	7.5
Overall Width (in):	9.71	Mounting Width(in):	7.5
Overall Height (in):	17.75	Mounting Height (in):	18.0*
Suction Size (in):	7/8 Stub		
Discharge Size (in):	1/2 Stub		
Initial Oil Charge (oz):	66		
Oil Recharge (oz):	62		
Net Weight (lbs):	79.5		
Internal Free Volume (in ³):	272.0		
HorsePower	5.0		
* Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	65.5	MCC (Amps):	14.0	UL File No.:	SA-2337
LRA-Half Winding:		RPM:	2900	UL File Date:	26-Jul-1993
LRA-Low*:	58.6	Max Operating Current:	11.0	CSA File No.:	LR3104C
RLA(=MCC/1.4; use for contactor selection): 10					
RLA(=MCC/1.56; use for breaker & wire size selection): 9					
*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

Model: ZR61KCE-TFD

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	6.10	6.15	6.18	6.21	6.27	6.36	6.52
35	6.37	6.41	6.44	6.48	6.54	6.65	6.82
40	6.71	6.74	6.76	6.79	6.85	6.96	7.15
45	-	7.15	7.15	7.17	7.22	7.32	7.51
50	-	-	7.63	7.63	7.66	7.75	7.92
55	-	-	-	8.19	8.20	8.26	8.41
60	-	-	-	-	8.84	8.88	9.00
65	-	-	-	-	9.62	9.61	9.69

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	118.99	150.28	187.11	228.78	274.58	323.82	375.80
35	116.58	147.63	184.48	226.41	272.74	322.77	375.80
40	112.95	143.59	180.29	222.34	269.03	319.68	373.59
45	-	138.91	175.30	217.29	264.19	315.30	369.92
50	-	-	170.24	212.02	258.96	310.36	365.54
55	-	-	-	207.26	254.08	305.62	361.19
60	-	-	-	-	250.31	301.82	357.61
65	-	-	-	-	248.38	299.70	355.55