

ZR28K3E-PFJ

HFC, R-407C, Dew Point, 50 Hz, 1 - Phase, 220/240 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):	22700	27800
Power (Watts):	2190	1450
Current (Amps):	10.4	7.1
EER (Btu/Wh):	10.3	19.2
Mass Flow (lbs/hr):	330.0	345.0
Sound Power(dBA):	65 Ave	70 Max
Vibration (mils(peak-peak)):	2.0 Ave	3.0 Max
Record Date:	2005-04-15	

Mechanical

Number of Cylinders:	0	Displ (in ³ /Rev):	2.395
Bore Size (in):	0.0	Displ (ft ³ /hr):	241.1621
Stroke (in):	0.0		
Overall Length (in):	9.567	Mounting Length (in):	7.5
Overall Width (in):	9.567	Mounting Width(in):	7.5
Overall Height (in):	14.84	Mounting Height (in):	15.076*
Suction Size (in):	3/4 Stub		
Discharge Size (in):	1/2 Stub		
Initial Oil Charge (oz):	38		
Oil Recharge (oz):	34		
Net Weight (lbs):	60.0		
Internal Free Volume (in ³):	175.0		
HorsePower	2.5		
* Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	61.0	MCC (Amps):	18.0	UL File No.:	
LRA-Half Winding:		RPM:	2900	UL File Date:	14-Jun-1994
LRA-Low*:	56.0	Max Operating Current:	14.8	CSA File No.:	
RLA(=MCC/1.4; use for contactor selection):	12.9				
RLA (=MCC/1.56; use for breaker & wire size selection):	11.5				
*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	1	265	Air Conditioning
R-407C HFC	60	1	265	Air Conditioning
R-134a HFC	50	1	220/240	Air Conditioning

Model: ZR28K3E-PFJ

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	6.34	6.32	6.29	6.23	6.16	6.05	5.91
35	6.97	6.95	6.92	6.87	6.80	6.70	6.57
40	7.67	7.65	7.61	7.57	7.49	7.40	7.27
45	-	8.46	8.42	8.36	8.29	8.18	8.05
50	-	-	9.38	9.31	9.22	9.11	8.96
55	-	-	-	10.47	10.36	10.22	10.06
60	-	-	-	-	11.74	11.58	11.39
65	-	-	-	-	13.41	13.22	13.01

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	58.84	73.17	89.50	108.14	129.44	153.74	181.36
35	57.48	72.18	88.70	107.39	128.58	152.61	179.80
40	55.73	70.95	87.85	106.75	128.00	151.91	178.84
45	-	68.96	86.40	105.68	127.14	151.12	177.95
50	-	-	83.79	103.62	125.46	149.67	176.57
55	-	-	-	100.03	122.43	147.03	174.16
60	-	-	-	-	117.50	142.66	170.19
65	-	-	-	-	110.13	136.01	164.11

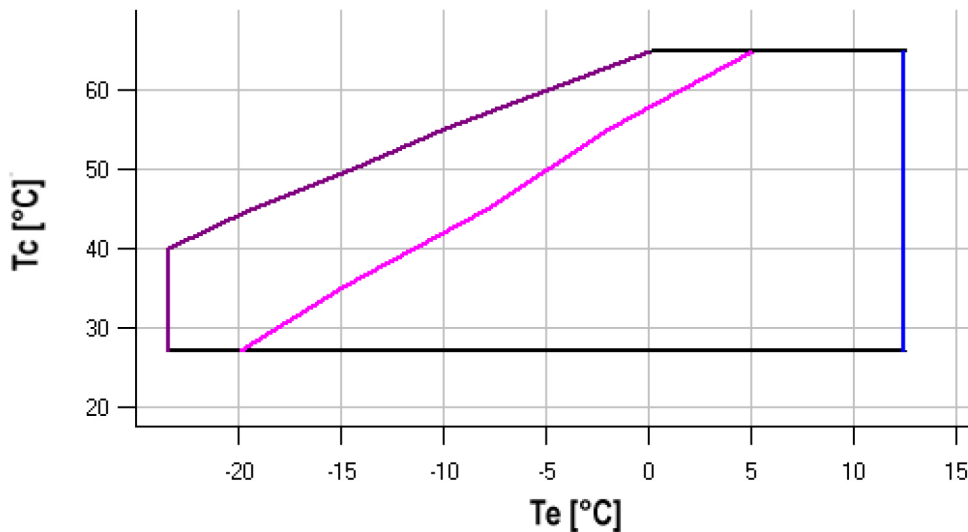
Model: ZR28K3E-PFJ

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.11	2.66	3.32	4.10	5.04	6.16	7.52
35	1.78	2.26	2.83	3.50	4.29	5.23	6.36
40	1.48	1.92	2.42	2.99	3.67	4.48	5.43
45	-	1.60	2.04	2.54	3.13	3.82	4.63
50	-	-	1.68	2.13	2.64	3.23	3.92
55	-	-	-	1.73	2.18	2.68	3.27
60	-	-	-	-	1.75	2.18	2.68
65	-	-	-	-	1.35	1.72	2.14

Application range



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: 10K suction superheat, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]