



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	2.73	3.85	4.83	5.84	7.05	8.63	9.40	10.75		
35.0	2.56	3.74	4.75	5.78	6.98	8.54	9.30	10.60	11.90	
40.0	2.28	3.49	4.52	5.55	6.73	8.24	8.98	10.25	11.50	12.95
45.0		3.16	4.20	5.20	6.34	7.80	8.51	9.74	10.95	12.35
50.0		2.80	3.81	4.78	5.87	7.25	7.92	9.09	10.25	11.55
55.0			3.42	4.34	5.35	6.64	7.27	8.36	9.44	10.70
60.0				3.92	4.84	6.02	6.60	7.61	8.62	9.79
65.0				3.57	4.39	5.44	5.96	6.88	7.80	8.89
70.0					4.02	4.93	5.39	6.21	7.04	8.03
75.0					3.79	4.54	4.93	5.64	6.37	7.25

50 Hz

ZR48K3E-PFJ

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	1.66	1.68	1.70	1.72	1.72	1.74	1.74	1.74		
35.0	1.83	1.85	1.86	1.87	1.88	1.89	1.90	1.90	1.91	
40.0	2.01	2.03	2.04	2.04	2.05	2.06	2.06	2.07	2.08	2.09
45.0		2.22	2.23	2.23	2.24	2.25	2.25	2.26	2.27	2.28
50.0		2.44	2.44	2.45	2.45	2.46	2.46	2.47	2.48	2.49
55.0			2.69	2.69	2.69	2.70	2.70	2.71	2.72	2.73
60.0				2.96	2.96	2.97	2.97	2.98	2.99	3.00
65.0				3.27	3.28	3.28	3.29	3.29	3.30	3.31
70.0					3.63	3.64	3.64	3.65	3.66	3.67
75.0					4.03	4.04	4.04	4.05	4.06	4.08

Cond °C	Current at 230 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	12.86	12.74	12.73	12.78	12.85	12.89	12.89	12.87		
35.0	13.21	13.06	13.03	13.07	13.13	13.18	13.19	13.18	13.14	
40.0	13.63	13.45	13.39	13.41	13.47	13.53	13.54	13.54	13.51	13.46
45.0		13.92	13.84	13.84	13.90	13.96	13.97	13.98	13.96	13.92
50.0		14.50	14.39	14.38	14.42	14.48	14.50	14.52	14.51	14.49
55.0			15.07	15.04	15.07	15.14	15.16	15.18	15.18	15.17
60.0				15.85	15.87	15.94	15.96	15.99	16.00	15.99
65.0				16.84	16.85	16.90	16.93	16.96	16.98	16.99
70.0					18.01	18.07	18.09	18.13	18.15	18.17
75.0					19.40	19.44	19.47	19.51	19.54	19.56

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	17.90	24.80	30.40	36.00	42.60	51.20	55.40	62.70		
35.0	17.70	25.20	31.40	37.40	44.20	53.00	57.30	64.70	71.80	
40.0	16.60	24.80	31.40	37.70	44.70	53.70	58.00	65.50	72.70	81.10
45.0		23.80	30.80	37.20	44.40	53.40	57.80	65.30	72.60	81.00
50.0		22.30	29.60	36.20	43.40	52.40	56.80	64.30	71.60	80.00
55.0			28.40	35.00	42.10	50.90	55.20	62.70	69.90	78.30
60.0				33.80	40.70	49.20	53.40	60.70	67.90	76.20
65.0				33.10	39.60	47.70	51.70	58.70	65.70	73.90
70.0					39.30	46.70	50.50	57.20	63.90	71.90
75.0					40.60	47.00	50.40	56.60	63.00	70.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	246/246
Height, mm	431
Net Weight, kg	32.7
Gross Weight, kg	32.7
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	62
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	3.40
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	23.5
Locked Rotor Current, A	114
Winding Resistance, ohm	0.6/1.7 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor

50 Hz

ZR48K3E-PFJ

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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75