



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
27.0	4.99	6.23	7.67	9.34	11.25	13.40	14.35	15.85	17.15
30.0	4.83	6.05	7.47	9.10	10.95	13.05	14.00	15.45	16.75
35.0	4.55	5.74	7.11	8.68	10.50	12.50	13.40	14.80	16.05
40.0	4.25	5.40	6.73	8.25	9.99	11.95	12.80	14.15	15.35
45.0		5.02	6.31	7.79	9.47	11.35	12.20	13.50	14.65
50.0			5.87	7.30	8.92	10.75	11.55	12.80	13.90
55.0			5.37	6.75	8.32	10.10	10.85	12.05	13.15
60.0				6.16	7.67	9.37	10.10	11.25	12.30
65.0					6.97	8.60	9.31	10.45	11.40

50 Hz

ZR48K3E-PFJ

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Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.98	1.96
30.0	2.21	2.20	2.19	2.18	2.16	2.14	2.13	2.11	2.10
35.0	2.47	2.45	2.44	2.42	2.40	2.38	2.37	2.35	2.34
40.0	2.76	2.74	2.72	2.70	2.68	2.65	2.64	2.62	2.60
45.0		3.07	3.04	3.01	2.99	2.96	2.94	2.92	2.90
50.0			3.42	3.39	3.35	3.31	3.29	3.27	3.24
55.0			3.87	3.82	3.77	3.72	3.70	3.67	3.64
60.0				4.32	4.26	4.20	4.18	4.14	4.11
65.0					4.84	4.76	4.73	4.69	4.65

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
27.0	10.97	10.94	10.91	10.87	10.81	10.73	10.70	10.63	10.57
30.0	11.51	11.48	11.44	11.40	11.34	11.26	11.22	11.15	11.09
35.0	12.53	12.48	12.43	12.38	12.31	12.22	12.18	12.11	12.04
40.0	13.75	13.67	13.60	13.52	13.43	13.32	13.28	13.19	13.12
45.0		15.08	14.98	14.87	14.75	14.62	14.56	14.47	14.38
50.0			16.62	16.47	16.32	16.15	16.08	15.96	15.86
55.0			18.56	18.37	18.17	17.96	17.87	17.73	17.61
60.0				20.61	20.36	20.10	19.99	19.82	19.67
65.0					22.92	22.60	22.47	22.26	22.09

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
27.0	29.10	35.90	43.60	52.50	62.50	73.60	78.40	86.00	92.70
30.0	28.80	35.60	43.40	52.20	62.20	73.40	78.20	85.80	92.40
35.0	28.30	35.10	42.90	51.80	61.80	72.90	77.70	85.30	91.90
40.0	27.50	34.40	42.30	51.20	61.20	72.30	77.10	84.70	91.40
45.0		33.50	41.40	50.40	60.50	71.70	76.50	84.10	90.70
50.0			40.30	49.40	59.60	70.80	75.70	83.30	90.00
55.0			38.80	48.00	58.30	69.70	74.60	82.20	89.00
60.0				46.20	56.60	68.20	73.10	80.90	87.70
65.0					54.50	66.20	71.20	79.10	86.00

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	1810
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

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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