



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	4.10	5.13	6.32	7.70	9.28	11.10	11.90	13.15	14.25
30.0	3.97	4.98	6.15	7.49	9.04	10.80	11.60	12.85	13.95
35.0	3.75	4.72	5.85	7.15	8.64	10.35	11.10	12.30	13.35
40.0	3.52	4.46	5.54	6.79	8.22	9.87	10.60	11.75	12.80
45.0		4.19	5.22	6.41	7.79	9.37	10.05	11.15	12.15
50.0			4.88	6.02	7.33	8.85	9.51	10.60	11.55
55.0			4.52	5.61	6.86	8.30	8.93	9.96	10.85
60.0				5.16	6.35	7.72	8.33	9.30	10.20
65.0					5.81	7.11	7.69	8.62	9.45

50 Hz

ZR40K3E-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	1.72	1.72	1.70	1.68	1.66	1.63	1.62	1.60	1.58
30.0	1.84	1.82	1.81	1.79	1.77	1.74	1.73	1.72	1.70
35.0	2.04	2.03	2.01	2.00	1.97	1.94	1.94	1.92	1.90
40.0	2.27	2.26	2.25	2.23	2.20	2.17	2.16	2.14	2.13
45.0		2.53	2.51	2.49	2.46	2.43	2.42	2.40	2.38
50.0			2.81	2.79	2.76	2.72	2.71	2.69	2.67
55.0			3.16	3.13	3.09	3.06	3.04	3.02	2.99
60.0				3.51	3.47	3.43	3.41	3.38	3.36
65.0					3.90	3.85	3.83	3.80	3.77

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	9.22	9.19	9.14	9.07	8.98	8.88	8.84	8.77	8.72
30.0	9.63	9.60	9.55	9.48	9.40	9.30	9.26	9.19	9.14
35.0	10.40	10.38	10.33	10.26	10.17	10.07	10.03	9.97	9.92
40.0	11.31	11.28	11.23	11.15	11.06	10.96	10.92	10.85	10.80
45.0		12.35	12.29	12.20	12.10	11.99	11.94	11.87	11.81
50.0			13.52	13.42	13.31	13.18	13.13	13.05	12.98
55.0			14.97	14.85	14.71	14.56	14.50	14.41	14.33
60.0				16.50	16.34	16.17	16.10	15.99	15.90
65.0					18.22	18.01	17.93	17.81	17.70

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	23.90	29.50	35.90	43.20	51.50	60.90	65.00	71.50	77.20
30.0	23.70	29.30	35.70	43.00	51.30	60.70	64.80	71.20	77.00
35.0	23.30	28.90	35.30	42.60	50.90	60.30	64.30	70.80	76.50
40.0	22.80	28.40	34.80	42.10	50.40	59.70	63.80	70.30	76.00
45.0		27.90	34.30	41.50	49.80	59.10	63.20	69.60	75.40
50.0			33.60	40.80	49.00	58.30	62.40	68.90	74.60
55.0			32.70	39.90	48.00	57.40	61.40	67.90	73.70
60.0				38.70	46.90	56.20	60.30	66.80	72.60
65.0					45.50	54.80	58.80	65.40	71.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	9.43
Length/Width, mm	242/242
Height, mm	400
Net Weight, kg	27
Gross Weight, kg	31
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.1
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	3.10
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	23.1
Locked Rotor Current, A	100
Winding Resistance, ohm	0.75/1.81 (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

ZR40K3E-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