



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	1.16	1.56	2.02	2.56	3.19	3.92	4.24	4.76		
35.0	1.09	1.47	1.91	2.43	3.03	3.74	4.05	4.55	5.00	
40.0	1.01	1.37	1.80	2.29	2.87	3.54	3.84	4.32	4.76	5.22
45.0		1.27	1.67	2.14	2.69	3.34	3.62	4.08	4.50	4.94
50.0		1.16	1.54	1.98	2.51	3.12	3.39	3.83	4.23	4.65
55.0			1.40	1.82	2.31	2.89	3.15	3.57	3.94	4.35
60.0				1.64	2.10	2.65	2.89	3.29	3.65	4.03
65.0				1.46	1.89	2.40	2.63	3.00	3.34	3.70
70.0					1.66	2.14	2.35	2.70	3.02	3.36
75.0					1.44	1.88	2.07	2.39	2.69	3.01

50 Hz

ZR22K3E-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	0.72	0.72	0.72	0.72	0.71	0.70	0.70	0.69		
35.0	0.81	0.80	0.80	0.80	0.79	0.78	0.78	0.78	0.77	
40.0	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.86	0.86
45.0		1.01	1.00	0.99	0.98	0.97	0.97	0.96	0.96	0.96
50.0		1.14	1.12	1.10	1.10	1.08	1.08	1.08	1.08	1.07
55.0			1.26	1.24	1.23	1.22	1.21	1.20	1.20	1.20
60.0				1.39	1.37	1.36	1.35	1.34	1.34	1.34
65.0				1.56	1.54	1.52	1.51	1.50	1.50	1.49
70.0					1.72	1.70	1.70	1.68	1.68	1.66
75.0					1.94	1.90	1.90	1.88	1.87	1.86

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	3.42	3.45	3.46	3.46	3.43	3.40	3.38	3.36		
35.0	3.80	3.81	3.81	3.79	3.76	3.73	3.71	3.69	3.67	
40.0	4.25	4.24	4.21	4.18	4.15	4.11	4.09	4.07	4.05	4.04
45.0		4.73	4.69	4.64	4.59	4.55	4.53	4.51	4.49	4.48
50.0		5.30	5.23	5.17	5.11	5.05	5.03	5.01	4.99	4.98
55.0			5.86	5.77	5.70	5.63	5.61	5.58	5.56	5.54
60.0				6.46	6.37	6.29	6.26	6.22	6.20	6.18
65.0				7.25	7.13	7.03	6.99	6.95	6.92	6.90
70.0					7.99	7.87	7.82	7.77	7.74	7.71
75.0					8.95	8.80	8.75	8.69	8.65	8.61

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	7.66	10.05	12.70	15.80	19.30	23.30	25.00	27.70		
35.0	7.54	9.92	12.65	15.70	19.20	23.20	24.90	27.70	30.20	
40.0	7.36	9.75	12.45	15.55	19.10	23.10	24.80	27.60	30.10	32.70
45.0		9.52	12.25	15.35	18.85	22.90	24.60	27.40	29.90	32.50
50.0		9.21	11.95	15.00	18.55	22.60	24.30	27.10	29.60	32.20
55.0			11.55	14.65	18.15	22.20	23.90	26.70	29.20	31.90
60.0				14.15	17.65	21.70	23.40	26.20	28.70	31.40
65.0				13.55	17.05	21.00	22.80	25.60	28.10	30.80
70.0					16.30	20.30	22.10	24.90	27.40	30.10
75.0					15.40	19.40	21.20	24.00	26.60	29.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.34
Length/Width, mm	242/242
Height, mm	363
Net Weight, kg	22
Gross Weight, kg	26
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	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	54
Sound Power (HT), dBA	65
Sound Power with Sound Shell (HT), dBA	58
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	2.90
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	11.4
Locked Rotor Current, A	47
Winding Resistance, ohm	1.62/2.85 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor

50 Hz

ZR22K3E-PFJ

R134a

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