



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	2.19	2.79	3.50	4.33	5.30	6.42	6.92	7.71	8.42	9.17
35.0	2.03	2.62	3.30	4.10	5.03	6.11	6.59	7.35	8.04	8.76
40.0	1.87	2.44	3.09	3.86	4.75	5.79	6.24	6.98	7.64	8.33
45.0		2.25	2.87	3.61	4.46	5.44	5.88	6.58	7.21	7.88
50.0			2.64	3.33	4.14	5.07	5.49	6.16	6.76	7.40
55.0				3.04	3.80	4.68	5.08	5.71	6.28	6.89
60.0					3.44	4.27	4.64	5.23	5.77	6.35
65.0					3.05	3.82	4.17	4.73	5.24	5.78
67.0						3.64	3.97	4.52	5.01	5.55

50 Hz

ZR24KRE-PFJ

R407C Dew Point

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	1.16	1.15	1.14	1.12	1.10	1.08	1.08	1.06	1.06	1.04
35.0	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.20	1.20
40.0	1.46	1.44	1.43	1.42	1.40	1.39	1.38	1.37	1.36	1.35
45.0		1.62	1.60	1.59	1.58	1.56	1.55	1.54	1.53	1.52
50.0			1.81	1.80	1.78	1.76	1.74	1.73	1.72	1.70
55.0				2.04	2.01	1.98	1.98	1.96	1.94	1.92
60.0					2.29	2.26	2.25	2.22	2.20	2.18
65.0					2.63	2.59	2.57	2.54	2.52	2.49
67.0						2.73	2.71	2.68	2.66	2.63

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	5.26	5.36	5.36	5.30	5.21	5.10	5.06	5.00	4.97	4.95
35.0	5.88	6.00	6.03	5.99	5.91	5.81	5.78	5.73	5.71	5.70
40.0	6.59	6.72	6.76	6.72	6.65	6.56	6.52	6.48	6.46	6.45
45.0		7.57	7.59	7.55	7.47	7.38	7.34	7.29	7.26	7.25
50.0			8.59	8.53	8.43	8.32	8.28	8.22	8.18	8.15
55.0				9.71	9.58	9.44	9.38	9.30	9.25	9.21
60.0					10.97	10.78	10.71	10.60	10.53	10.46
65.0					12.63	12.39	12.30	12.16	12.06	11.97
67.0						13.12	13.02	12.87	12.75	12.65

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	12.80	16.05	19.80	24.10	29.10	34.70	37.20	41.20	44.60	48.30
35.0	12.50	15.80	19.55	23.90	28.90	34.60	37.10	41.00	44.50	48.20
40.0	12.10	15.45	19.25	23.60	28.60	34.30	36.80	40.80	44.30	48.00
45.0		15.05	18.90	23.30	28.30	33.90	36.40	40.40	43.90	47.70
50.0			18.35	22.80	27.80	33.50	35.90	39.90	43.50	47.20
55.0				22.10	27.10	32.80	35.30	39.30	42.90	46.70
60.0					26.30	32.00	34.50	38.50	42.10	45.90
65.0					25.20	30.90	33.40	37.50	41.10	45.00
67.0						30.40	32.90	37.00	40.60	44.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.92
Length/Width, mm	239/245
Height, mm	364
Net Weight, kg	25.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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 (19)
Sound Pressure @ 1m (MT), dBA	54
Sound Power (MT), dBA	65
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.50
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	58
Winding Resistance, ohm	1.26/3.34 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
----------------------------------	---------------------

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Single Phase Equipment	Start Relay and Capacitor
Mounting Grommets	Standard

MOTOR OPTIONS

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