



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	2.29	2.93	3.72	4.67	5.79	7.10	7.68	8.60		
35.0	2.14	2.75	3.51	4.42	5.50	6.75	7.31	8.20	8.99	
40.0	2.00	2.58	3.30	4.17	5.20	6.40	6.93	7.78	8.55	9.37
45.0		2.40	3.09	3.91	4.89	6.04	6.55	7.36	8.10	8.88
50.0		2.23	2.87	3.65	4.58	5.67	6.15	6.93	7.63	8.37
55.0			2.66	3.39	4.27	5.29	5.75	6.49	7.15	7.86
60.0				3.13	3.94	4.91	5.34	6.03	6.66	7.33
65.0				2.85	3.61	4.51	4.91	5.56	6.15	6.78
70.0					3.27	4.10	4.47	5.07	5.62	6.21
75.0					2.91	3.67	4.01	4.57	5.07	5.62

50 Hz

ZR42KRE-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	1.35	1.34	1.32	1.30	1.28	1.28	1.28	1.30		
35.0	1.50	1.50	1.48	1.46	1.43	1.42	1.42	1.44	1.46	
40.0	1.66	1.68	1.66	1.63	1.60	1.58	1.58	1.59	1.60	1.63
45.0		1.86	1.84	1.82	1.79	1.76	1.76	1.76	1.78	1.80
50.0		2.05	2.05	2.02	2.00	1.97	1.96	1.96	1.98	1.99
55.0			2.27	2.25	2.23	2.20	2.20	2.19	2.20	2.21
60.0				2.50	2.48	2.46	2.46	2.45	2.46	2.47
65.0				2.78	2.77	2.75	2.75	2.74	2.75	2.75
70.0					3.09	3.08	3.07	3.07	3.07	3.08
75.0					3.44	3.44	3.43	3.44	3.44	3.45

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	8.61	8.56	8.48	8.39	8.31	8.27	8.26	8.28		
35.0	9.11	9.08	9.01	8.93	8.85	8.80	8.79	8.80	8.82	
40.0	9.65	9.64	9.58	9.51	9.43	9.37	9.36	9.36	9.38	9.42
45.0		10.27	10.22	10.15	10.08	10.02	10.01	10.00	10.02	10.05
50.0		10.98	10.95	10.89	10.82	10.77	10.75	10.74	10.75	10.78
55.0			11.79	11.75	11.68	11.63	11.61	11.60	11.61	11.63
60.0				12.74	12.68	12.63	12.62	12.60	12.61	12.62
65.0				13.89	13.85	13.80	13.79	13.77	13.77	13.79
70.0					15.20	15.16	15.15	15.13	15.13	15.14
75.0					16.76	16.73	16.72	16.71	16.71	16.72

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	15.05	18.85	23.40	28.80	35.10	42.10	45.20	50.10		
35.0	14.80	18.60	23.20	28.60	34.80	41.90	45.00	49.90	54.30	
40.0	14.50	18.30	22.90	28.30	34.60	41.70	44.80	49.70	54.00	58.60
45.0		18.05	22.60	28.00	34.30	41.40	44.50	49.40	53.70	58.30
50.0		17.80	22.30	27.70	33.90	41.00	44.10	49.00	53.40	58.00
55.0			22.00	27.40	33.50	40.60	43.70	48.60	52.90	57.50
60.0				27.00	33.10	40.10	43.20	48.10	52.40	57.00
65.0				26.50	32.60	39.50	42.60	47.50	51.80	56.40
70.0					31.90	38.80	41.90	46.70	51.00	55.60
75.0					31.20	38.00	41.00	45.80	50.10	54.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	9.94
Length/Width, mm	239/245
Height, mm	400
Net Weight, kg	28.4
Gross Weight, kg	31.4
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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	58
Sound Power (MT), dBA	69
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	2.60
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	20
Locked Rotor Current, A	97
Winding Resistance, ohm	0.69/1.65 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

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

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