



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	3.47	4.48	5.66	7.05	8.67	10.55	11.40	12.70	13.90	15.20
35.0	3.22	4.20	5.33	6.67	8.22	10.05	10.85	12.10	13.25	14.50
40.0	2.97	3.90	4.99	6.26	7.75	9.48	10.25	11.50	12.60	13.75
45.0		3.59	4.63	5.84	7.25	8.89	9.62	10.80	11.85	13.00
50.0			4.25	5.38	6.71	8.27	8.96	10.10	11.10	12.15
55.0				4.91	6.15	7.61	8.26	9.31	10.25	11.30
60.0					5.56	6.91	7.52	8.51	9.41	10.40
65.0					4.93	6.19	6.75	7.67	8.50	9.41
67.0						5.88	6.43	7.32	8.13	9.01

50 Hz

ZR42KRE-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	1.80	1.78	1.77	1.76	1.74	1.70	1.68	1.64	1.60	1.56
35.0	2.02	2.01	2.00	1.99	1.97	1.94	1.92	1.88	1.84	1.80
40.0	2.26	2.25	2.25	2.24	2.22	2.18	2.17	2.13	2.09	2.05
45.0		2.54	2.53	2.52	2.50	2.46	2.44	2.41	2.37	2.32
50.0			2.87	2.85	2.82	2.78	2.76	2.72	2.68	2.63
55.0				3.25	3.21	3.16	3.13	3.09	3.04	2.99
60.0					3.68	3.61	3.58	3.53	3.48	3.42
65.0					4.23	4.15	4.12	4.05	3.99	3.93
67.0						4.40	4.36	4.29	4.23	4.16

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	8.73	8.66	8.61	8.54	8.44	8.29	8.20	8.04	7.88	7.69
35.0	9.65	9.61	9.57	9.53	9.44	9.29	9.21	9.05	8.89	8.70
40.0	10.69	10.66	10.64	10.60	10.52	10.36	10.28	10.12	9.95	9.75
45.0		11.89	11.87	11.83	11.73	11.57	11.48	11.31	11.13	10.92
50.0			13.33	13.28	13.17	12.98	12.88	12.69	12.50	12.27
55.0				15.02	14.89	14.67	14.55	14.34	14.13	13.88
60.0					16.96	16.70	16.56	16.32	16.09	15.81
65.0					19.47	19.15	18.99	18.72	18.45	18.15
67.0						20.27	20.10	19.81	19.53	19.21

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	20.30	25.70	32.00	39.30	47.60	57.10	61.30	67.90	73.80	80.10
35.0	19.75	25.30	31.60	38.90	47.20	56.70	60.90	67.60	73.50	79.80
40.0	19.15	24.70	31.10	38.30	46.70	56.20	60.40	67.00	73.00	79.30
45.0		24.10	30.40	37.70	46.00	55.50	59.60	66.30	72.30	78.60
50.0			29.60	36.80	45.00	54.50	58.70	65.30	71.30	77.60
55.0				35.70	43.90	53.30	57.40	64.10	70.10	76.40
60.0					42.50	51.80	55.90	62.60	68.60	75.00
65.0					40.80	50.00	54.10	60.80	66.80	73.20
67.0						49.20	53.30	59.90	65.90	72.40

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/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	1774
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**

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