



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

ZR42KRE-PFJ

R513A

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	20.0	25.0
10.0	3.35	4.18	5.17	6.32								
15.0	3.18	4.01	4.98	6.11	7.42							
20.0	3.01	3.82	4.77	5.87	7.15	8.63						
25.0	2.83	3.62	4.54	5.61	6.85	8.29	8.92	9.93				
30.0	2.64	3.41	4.29	5.33	6.53	7.91	8.53	9.51	10.40	11.35		
35.0	2.45	3.18	4.03	5.02	6.18	7.51	8.10	9.05	9.90	10.80		
40.0	2.24	2.94	3.75	4.70	5.80	7.08	7.65	8.56	9.38	10.25	12.20	
45.0	2.04	2.69	3.46	4.36	5.40	6.62	7.16	8.03	8.81	9.65	11.50	13.65
50.0		2.44	3.15	3.99	4.98	6.13	6.64	7.47	8.22	9.02	10.80	12.80
55.0			2.83	3.61	4.53	5.61	6.10	6.88	7.58	8.34	10.05	11.95
60.0			2.50	3.21	4.06	5.07	5.52	6.25	6.92	7.63	9.23	11.05
65.0				2.80	3.57	4.50	4.92	5.60	6.22	6.89	8.39	10.15
70.0					3.07	3.91	4.29	4.91	5.49	6.11	7.51	
75.0					2.54	3.29	3.63	4.20	4.72	5.30		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	0.95	0.94	0.93	0.92								
15.0	1.06	1.03	1.02	1.01	1.01							
20.0	1.18	1.14	1.12	1.11	1.10	1.10						
25.0	1.31	1.28	1.25	1.23	1.22	1.20	1.20	1.20				
30.0	1.47	1.43	1.40	1.36	1.34	1.33	1.32	1.32	1.32	1.32		
35.0	1.66	1.60	1.56	1.52	1.50	1.47	1.46	1.46	1.45	1.45		
40.0	1.86	1.80	1.75	1.70	1.66	1.64	1.62	1.61	1.60	1.60	1.59	
45.0	2.10	2.03	1.97	1.92	1.86	1.82	1.81	1.79	1.78	1.76	1.75	1.74
50.0		2.29	2.22	2.15	2.09	2.04	2.02	2.00	1.98	1.96	1.94	1.92
55.0			2.49	2.42	2.35	2.29	2.26	2.23	2.21	2.18	2.15	2.12
60.0			2.81	2.72	2.64	2.56	2.53	2.50	2.47	2.44	2.39	2.35
65.0				3.05	2.96	2.87	2.84	2.80	2.76	2.73	2.66	2.61
70.0					3.32	3.22	3.18	3.13	3.09	3.05	2.97	
75.0					3.72	3.61	3.57	3.50	3.45	3.41		

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50 Hz

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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	20.0	25.0
10.0	7.37	7.25	7.14	7.04								
15.0	7.96	7.85	7.74	7.66	7.58							
20.0	8.53	8.41	8.31	8.23	8.16	8.10						
25.0	9.09	8.96	8.86	8.77	8.70	8.65	8.63	8.61				
30.0	9.68	9.54	9.42	9.32	9.24	9.18	9.16	9.14	9.13	9.12		
35.0	10.32	10.15	10.00	9.89	9.79	9.72	9.70	9.67	9.65	9.64		
40.0	11.03	10.82	10.65	10.50	10.38	10.29	10.26	10.22	10.20	10.18	10.15	
45.0	11.84	11.59	11.37	11.19	11.03	10.91	10.87	10.82	10.78	10.75	10.71	10.69
50.0		12.46	12.20	11.97	11.77	11.61	11.56	11.48	11.43	11.38	11.31	11.27
55.0			13.15	12.86	12.62	12.41	12.34	12.24	12.16	12.10	11.99	11.91
60.0			14.25	13.90	13.60	13.34	13.24	13.11	13.01	12.92	12.77	12.65
65.0				15.11	14.74	14.41	14.29	14.12	14.00	13.88	13.67	13.50
70.0					16.05	15.65	15.51	15.30	15.14	14.99	14.72	
75.0					17.57	17.09	16.92	16.66	16.46	16.28		

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	20.0	25.0
10.0	20.60	25.20	30.50	36.50								
15.0	20.50	25.20	30.60	36.70	43.70							
20.0	20.30	25.10	30.60	36.80	43.90	51.90						
25.0	20.00	24.90	30.50	36.90	44.00	52.10	55.60	61.10				
30.0	19.70	24.70	30.40	36.70	44.00	52.10	55.60	61.30	66.20	71.50		
35.0	19.30	24.40	30.10	36.50	43.80	52.00	55.60	61.20	66.20	71.50		
40.0	18.80	23.90	29.70	36.20	43.50	51.70	55.30	61.00	66.10	71.40	83.00	
45.0	18.25	23.40	29.20	35.60	43.00	51.30	54.90	60.60	65.70	71.10	82.80	95.70
50.0		22.70	28.50	35.00	42.30	50.60	54.20	60.00	65.10	70.50	82.30	95.40
55.0			27.60	34.10	41.40	49.70	53.40	59.10	64.30	69.70	81.60	94.90
60.0			26.60	33.00	40.30	48.60	52.20	58.00	63.20	68.70	80.70	94.10
65.0				31.60	38.80	47.10	50.70	56.60	61.80	67.30	79.50	93.10
70.0					37.00	45.20	48.90	54.70	60.00	65.60	77.90	
75.0					34.60	42.90	46.50	52.50	57.80	63.50		

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

Displacement @ 50 Hz, m <sup>3</sup> /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 (HT), dBA	56
Sound Power (HT), dBA	67
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °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	631
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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Additional restrictions, please see application guidelines

### 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

Additional restrictions, please see application guidelines