



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

ZR24KRE-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	2.00	2.50	3.11	3.82								
15.0	1.90	2.39	2.98	3.67	4.48							
20.0	1.80	2.27	2.84	3.51	4.30	5.20						
25.0	1.68	2.15	2.70	3.34	4.10	4.98	5.36	5.98				
30.0	1.58	2.02	2.55	3.17	3.89	4.74	5.11	5.71	6.24	6.81		
35.0	1.46	1.88	2.39	2.98	3.68	4.49	4.84	5.42	5.93	6.48		
40.0	1.34	1.74	2.22	2.79	3.45	4.23	4.57	5.12	5.61	6.14	7.30	
45.0	1.22	1.60	2.05	2.59	3.22	3.95	4.28	4.80	5.27	5.78	6.89	8.15
50.0		1.44	1.88	2.38	2.98	3.67	3.98	4.48	4.92	5.40	6.46	7.67
55.0			1.69	2.16	2.72	3.38	3.67	4.14	4.56	5.02	6.03	7.17
60.0			1.50	1.94	2.46	3.07	3.35	3.79	4.19	4.62	5.57	6.66
65.0				1.71	2.19	2.76	3.01	3.43	3.80	4.21	5.10	6.13
70.0					1.91	2.44	2.67	3.06	3.40	3.78	4.62	
75.0					1.62	2.10	2.32	2.67	2.99	3.34		

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	0.47	0.47	0.48	0.48								
15.0	0.52	0.52	0.52	0.53	0.54							
20.0	0.57	0.57	0.58	0.58	0.59	0.60						
25.0	0.64	0.64	0.64	0.65	0.66	0.66	0.67	0.68				
30.0	0.71	0.71	0.71	0.72	0.73	0.74	0.74	0.75	0.76	0.76		
35.0	0.79	0.79	0.80	0.80	0.81	0.82	0.82	0.83	0.84	0.84		
40.0	0.89	0.89	0.89	0.89	0.90	0.91	0.91	0.92	0.93	0.94	0.96	
45.0	0.99	0.99	0.99	0.99	1.00	1.01	1.01	1.02	1.02	1.03	1.06	1.08
50.0		1.11	1.10	1.11	1.11	1.12	1.12	1.13	1.14	1.14	1.16	1.19
55.0			1.24	1.24	1.24	1.24	1.25	1.25	1.26	1.27	1.28	1.30
60.0			1.38	1.38	1.38	1.38	1.38	1.38	1.39	1.40	1.42	1.44
65.0				1.52	1.52	1.52	1.53	1.54	1.54	1.54	1.56	1.58
70.0					1.69	1.69	1.69	1.70	1.70	1.70	1.72	
75.0					1.87	1.86	1.87	1.87	1.88	1.88		

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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	3.60	3.61	3.63	3.66								
15.0	3.92	3.93	3.95	3.98	4.02							
20.0	4.23	4.24	4.25	4.28	4.32	4.37						
25.0	4.53	4.54	4.55	4.58	4.61	4.66	4.68	4.72				
30.0	4.84	4.84	4.85	4.87	4.91	4.95	4.97	5.01	5.04	5.08		
35.0	5.16	5.15	5.16	5.18	5.21	5.25	5.27	5.30	5.33	5.37		
40.0	5.50	5.49	5.49	5.50	5.53	5.57	5.58	5.62	5.65	5.68	5.76	
45.0	5.88	5.86	5.85	5.86	5.88	5.91	5.93	5.96	5.98	6.01	6.09	6.18
50.0		6.26	6.25	6.25	6.26	6.29	6.30	6.33	6.35	6.38	6.45	6.54
55.0			6.70	6.69	6.69	6.71	6.73	6.75	6.77	6.80	6.86	6.94
60.0			7.20	7.18	7.18	7.19	7.20	7.22	7.24	7.26	7.32	7.39
65.0				7.74	7.73	7.73	7.74	7.75	7.76	7.78	7.83	7.90
70.0					8.35	8.35	8.35	8.35	8.36	8.38	8.42	
75.0					9.06	9.04	9.04	9.04	9.04	9.05		

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	12.30	15.05	18.30	22.10								
15.0	12.20	15.00	18.30	22.10	26.40							
20.0	12.05	14.90	18.25	22.00	26.40	31.30						
25.0	11.90	14.80	18.15	22.00	26.30	31.30	33.40	36.80				
30.0	11.70	14.65	18.00	21.90	26.20	31.20	33.30	36.80	39.80	43.00		
35.0	11.50	14.45	17.80	21.70	26.10	31.10	33.20	36.60	39.70	42.90		
40.0	11.20	14.20	17.60	21.50	25.90	30.90	33.00	36.50	39.50	42.70	49.70	
45.0	10.85	13.85	17.30	21.20	25.60	30.60	32.80	36.20	39.30	42.50	49.50	57.20
50.0		13.50	16.95	20.80	25.30	30.30	32.50	36.00	39.00	42.30	49.30	57.10
55.0			16.50	20.40	24.90	29.90	32.10	35.60	38.70	41.90	49.00	56.90
60.0			15.95	19.90	24.40	29.40	31.70	35.20	38.30	41.60	48.70	56.60
65.0				19.25	23.80	28.90	31.10	34.60	37.80	41.10	48.40	56.40
70.0					23.00	28.20	30.50	34.00	37.20	40.60	48.00	
75.0					22.20	27.40	29.70	33.40	36.60	40.10		

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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)
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	631
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
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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

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50 Hz

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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

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