



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

ZR36KRE-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	2.91	3.64	4.51	5.52								
15.0	2.78	3.49	4.34	5.32	6.47							
20.0	2.63	3.33	4.15	5.11	6.23	7.51						
25.0	2.48	3.16	3.96	4.89	5.97	7.22	7.76	8.64				
30.0	2.33	2.98	3.75	4.65	5.69	6.89	7.42	8.27	9.04	9.85		
35.0	2.16	2.79	3.53	4.39	5.39	6.55	7.06	7.88	8.61	9.40		
40.0	1.98	2.59	3.30	4.12	5.08	6.18	6.67	7.46	8.16	8.92	10.55	
45.0	1.80	2.37	3.05	3.83	4.74	5.80	6.26	7.01	7.69	8.41	10.00	11.80
50.0		2.15	2.78	3.52	4.38	5.38	5.83	6.54	7.18	7.87	9.39	11.10
55.0			2.50	3.19	4.00	4.94	5.36	6.04	6.65	7.30	8.75	10.40
60.0			2.19	2.84	3.59	4.48	4.87	5.51	6.08	6.70	8.07	9.63
65.0				2.47	3.17	3.99	4.36	4.95	5.49	6.07	7.36	8.84
70.0					2.72	3.47	3.81	4.36	4.86	5.41	6.61	
75.0					2.24	2.93	3.24	3.75	4.21	4.71		

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	0.73	0.73	0.74	0.76								
15.0	0.82	0.81	0.81	0.83	0.86							
20.0	0.91	0.90	0.90	0.91	0.94	0.97						
25.0	1.02	1.01	1.00	1.01	1.02	1.05	1.06	1.08				
30.0	1.14	1.12	1.12	1.12	1.13	1.14	1.16	1.17	1.18	1.20		
35.0	1.27	1.26	1.25	1.25	1.25	1.27	1.27	1.28	1.29	1.30		
40.0	1.42	1.41	1.40	1.40	1.40	1.40	1.40	1.41	1.42	1.42	1.44	
45.0	1.60	1.58	1.58	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.57	1.58
50.0		1.78	1.77	1.76	1.75	1.74	1.74	1.74	1.74	1.74	1.73	1.72
55.0			1.99	1.98	1.97	1.96	1.95	1.94	1.94	1.93	1.92	1.90
60.0			2.24	2.23	2.21	2.20	2.19	2.18	2.17	2.16	2.14	2.11
65.0				2.50	2.49	2.47	2.46	2.45	2.43	2.42	2.39	2.35
70.0					2.80	2.77	2.76	2.75	2.73	2.71	2.68	
75.0					3.14	3.11	3.10	3.08	3.06	3.04		

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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	6.12	6.10	6.14	6.21								
15.0	6.69	6.67	6.69	6.75	6.85							
20.0	7.21	7.18	7.19	7.24	7.32	7.43						
25.0	7.70	7.66	7.66	7.70	7.76	7.85	7.89	7.95				
30.0	8.19	8.13	8.12	8.14	8.19	8.26	8.29	8.34	8.38	8.43		
35.0	8.68	8.61	8.59	8.59	8.63	8.68	8.70	8.74	8.77	8.80		
40.0	9.21	9.12	9.08	9.08	9.09	9.12	9.14	9.16	9.18	9.20	9.24	
45.0	9.79	9.69	9.63	9.61	9.60	9.62	9.62	9.64	9.64	9.65	9.66	9.66
50.0		10.33	10.26	10.21	10.19	10.18	10.18	10.18	10.17	10.17	10.15	10.12
55.0			10.97	10.91	10.87	10.83	10.82	10.81	10.79	10.78	10.73	10.67
60.0			11.80	11.72	11.66	11.60	11.58	11.55	11.52	11.49	11.42	11.33
65.0				12.67	12.58	12.50	12.47	12.42	12.38	12.34	12.24	12.12
70.0					13.66	13.55	13.51	13.45	13.40	13.34	13.21	
75.0					14.91	14.78	14.73	14.65	14.58	14.51		

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	17.95	21.90	26.60	31.90								
15.0	17.85	21.90	26.60	32.00	38.10							
20.0	17.70	21.90	26.70	32.10	38.30	45.20						
25.0	17.55	21.80	26.60	32.10	38.30	45.30	48.40	53.20				
30.0	17.30	21.60	26.50	32.10	38.30	45.40	48.40	53.30	57.60	62.10		
35.0	17.00	21.40	26.30	31.90	38.20	45.30	48.40	53.30	57.60	62.10		
40.0	16.60	21.10	26.10	31.70	38.00	45.20	48.30	53.20	57.50	62.10	72.00	
45.0	16.10	20.60	25.70	31.30	37.70	44.90	48.00	52.90	57.30	61.90	71.80	82.90
50.0		20.00	25.10	30.80	37.20	44.40	47.60	52.50	56.90	61.50	71.60	82.70
55.0			24.40	30.10	36.50	43.80	46.90	51.90	56.40	61.00	71.20	82.40
60.0			23.40	29.10	35.60	42.90	46.10	51.10	55.60	60.30	70.50	81.90
65.0				27.80	34.40	41.70	44.90	50.00	54.60	59.30	69.70	81.30
70.0					32.70	40.20	43.40	48.60	53.20	58.10	68.60	
75.0					30.60	38.20	41.50	46.80	51.50	56.40		

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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.61
Length/Width, mm	239/245
Height, mm	387
Net Weight, kg	27.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	55
Sound Power (HT), dBA	66
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	16.4
Locked Rotor Current, A	82
Winding Resistance, ohm	0.89/1.84 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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R513A

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
Mounting Grommets	Standard
Single Phase Equipment	Start Relay and Capacitor

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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