



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

ZRD36KRE-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
14.0	2.82											
15.0	2.78											
20.0	2.59	3.27	4.07									
25.0	2.42	3.08	3.84	4.74	5.79							
30.0	2.26	2.89	3.62	4.48	5.49	6.65	7.17					
35.0	2.10	2.71	3.41	4.23	5.19	6.30	6.79	7.59	8.31	9.08		
40.0	1.95	2.53	3.20	3.97	4.88	5.94	6.41	7.17	7.85	8.59	10.20	
45.0	1.80	2.35	2.98	3.71	4.57	5.57	6.02	6.73	7.38	8.08	9.63	11.40
50.0		2.16	2.75	3.44	4.25	5.19	5.61	6.29	6.90	7.56	9.03	10.70
55.0			2.52	3.16	3.91	4.79	5.18	5.82	6.40	7.02	8.41	10.00
60.0			2.27	2.86	3.55	4.37	4.73	5.33	5.87	6.45	7.76	9.27
65.0				2.54	3.17	3.92	4.26	4.81	5.31	5.86	7.08	8.50
70.0					2.77	3.45	3.76	4.26	4.73	5.23	6.36	
75.0					2.33	2.95	3.23	3.68	4.11	4.57		

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
14.0	0.81											
15.0	0.83											
20.0	0.91	0.92	0.93									
25.0	0.99	1.01	1.02	1.03	1.06							
30.0	1.08	1.10	1.11	1.12	1.14	1.17	1.18					
35.0	1.18	1.20	1.22	1.23	1.25	1.26	1.27	1.28	1.30	1.32		
40.0	1.28	1.30	1.32	1.34	1.36	1.37	1.38	1.38	1.40	1.40	1.42	
45.0	1.38	1.42	1.46	1.48	1.50	1.50	1.51	1.52	1.52	1.52	1.53	1.54
50.0		1.54	1.59	1.62	1.64	1.66	1.66	1.66	1.66	1.67	1.66	1.66
55.0			1.74	1.79	1.82	1.84	1.84	1.84	1.84	1.84	1.84	1.82
60.0			1.90	1.96	2.01	2.04	2.04	2.05	2.05	2.05	2.04	2.02
65.0				2.16	2.22	2.26	2.27	2.28	2.28	2.28	2.27	2.25
70.0					2.45	2.51	2.52	2.54	2.54	2.55	2.54	
75.0					2.71	2.78	2.80	2.82	2.83	2.84		

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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
14.0	5.43											
15.0	5.51											
20.0	5.91	5.93	6.00									
25.0	6.29	6.32	6.37	6.45	6.56							
30.0	6.67	6.72	6.77	6.83	6.91	7.02	7.08					
35.0	7.06	7.14	7.20	7.26	7.32	7.40	7.43	7.49	7.55	7.62		
40.0	7.45	7.57	7.66	7.74	7.79	7.85	7.87	7.91	7.94	7.98	8.08	
45.0	7.85	8.03	8.17	8.27	8.33	8.38	8.40	8.42	8.43	8.45	8.49	8.55
50.0		8.53	8.72	8.86	8.95	9.00	9.02	9.03	9.04	9.04	9.04	9.04
55.0			9.33	9.52	9.65	9.72	9.74	9.75	9.75	9.75	9.72	9.67
60.0			10.00	10.26	10.43	10.54	10.57	10.59	10.60	10.59	10.54	10.47
65.0				11.08	11.32	11.47	11.51	11.55	11.57	11.56	11.52	11.42
70.0					12.30	12.52	12.58	12.64	12.67	12.68	12.65	
75.0					13.40	13.69	13.77	13.87	13.92	13.95		

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
14.0	17.95											
15.0	17.85											
20.0	17.45	21.50	26.10									
25.0	17.10	21.20	25.80	31.10	37.20							
30.0	16.80	20.90	25.60	30.90	37.00	43.80	46.80					
35.0	16.55	20.70	25.40	30.70	36.80	43.60	46.60	51.30	55.50	60.00		
40.0	16.35	20.60	25.30	30.60	36.60	43.40	46.40	51.10	55.30	59.80	69.50	
45.0	16.15	20.40	25.10	30.40	36.40	43.10	46.10	50.80	55.00	59.50	69.20	80.10
50.0		20.20	24.90	30.10	36.10	42.80	45.80	50.50	54.70	59.10	68.90	79.80
55.0			24.60	29.80	35.70	42.40	45.30	50.00	54.20	58.70	68.40	79.40
60.0			24.10	29.30	35.20	41.80	44.80	49.40	53.60	58.10	67.80	78.80
65.0				28.60	34.40	41.00	44.00	48.60	52.80	57.20	67.00	78.10
70.0					33.40	39.90	42.80	47.50	51.70	56.20	66.00	
75.0					31.80	38.40	41.30	46.00	50.20	54.70		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.34
Length/Width, mm	239/244
Height, mm	435
Net Weight, kg	30.2
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)
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	16.5
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
Discharge Temperature Protection	Discharge line thermostat

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

Mounting Grommets	Standard
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Driver	EC3-D13
Single Phase Equipment	Start Relay and Capacitor
Solenoid valve	Standard
Valve Coil	24V AC
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Control Kit	EC3-652
Crankcase Heater	70 W External
Single Phase Equipment	Run Capacitor
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Control Kit	EC2-552
Digital Superheat Controller	EC3-D72
Display Case	ECD-000
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Superheat Controller	EC3-D73

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