



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-TFD

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	2.77											
15.0	2.75											
20.0	2.61	3.21	3.95									
25.0	2.46	3.06	3.77	4.63	5.66							
30.0	2.30	2.90	3.59	4.42	5.40	6.56	7.08					
35.0	2.12	2.72	3.40	4.20	5.13	6.23	6.73	7.53	8.26	9.04		
40.0	1.92	2.52	3.19	3.96	4.86	5.90	6.37	7.12	7.81	8.55	10.20	
45.0	1.70	2.30	2.97	3.71	4.57	5.56	6.00	6.71	7.36	8.05	9.61	11.40
50.0		2.06	2.71	3.44	4.26	5.20	5.61	6.28	6.89	7.54	9.01	10.70
55.0			2.43	3.14	3.92	4.81	5.21	5.84	6.41	7.02	8.39	9.97
60.0			2.12	2.81	3.56	4.41	4.78	5.37	5.90	6.48	7.76	9.23
65.0				2.45	3.17	3.97	4.32	4.88	5.38	5.91	7.10	8.48
70.0					2.75	3.51	3.83	4.36	4.82	5.32	6.42	
75.0					2.28	3.00	3.31	3.80	4.23	4.69		

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	0.82											
20.0	0.87	0.88	0.88									
25.0	0.94	0.94	0.95	0.96	0.97							
30.0	1.01	1.03	1.04	1.05	1.06	1.07	1.08					
35.0	1.10	1.12	1.14	1.16	1.17	1.18	1.18	1.20	1.20	1.22		
40.0	1.20	1.24	1.27	1.28	1.30	1.30	1.31	1.32	1.32	1.34	1.36	
45.0	1.32	1.36	1.40	1.42	1.44	1.45	1.45	1.46	1.46	1.47	1.49	1.52
50.0		1.50	1.54	1.58	1.60	1.61	1.61	1.62	1.62	1.62	1.64	1.66
55.0			1.71	1.75	1.77	1.78	1.79	1.80	1.80	1.80	1.80	1.82
60.0			1.89	1.94	1.96	1.98	1.98	1.99	1.99	2.00	2.00	2.00
65.0				2.14	2.18	2.20	2.20	2.21	2.21	2.21	2.20	2.20
70.0					2.40	2.43	2.44	2.44	2.44	2.44	2.43	
75.0					2.65	2.68	2.69	2.70	2.70	2.70		

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50 Hz

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Cond °C	Current at 400 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	2.37											
15.0	2.39											
20.0	2.51	2.51	2.51									
25.0	2.62	2.63	2.64	2.64	2.65							
30.0	2.73	2.76	2.77	2.78	2.79	2.80	2.81					
35.0	2.85	2.88	2.91	2.92	2.93	2.95	2.95	2.96	2.98	2.99		
40.0	2.97	3.02	3.05	3.07	3.09	3.10	3.11	3.12	3.13	3.14	3.17	
45.0	3.11	3.17	3.21	3.24	3.26	3.27	3.28	3.29	3.29	3.30	3.33	3.36
50.0		3.34	3.39	3.43	3.45	3.47	3.47	3.48	3.48	3.49	3.50	3.53
55.0			3.59	3.63	3.66	3.68	3.69	3.69	3.70	3.70	3.71	3.72
60.0			3.81	3.87	3.90	3.92	3.93	3.94	3.94	3.94	3.94	3.94
65.0				4.13	4.17	4.20	4.21	4.21	4.21	4.21	4.21	4.20
70.0					4.48	4.51	4.52	4.52	4.52	4.52	4.52	
75.0					4.82	4.86	4.87	4.88	4.88	4.88		

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	17.65											
15.0	17.65											
20.0	17.55	21.10	25.30									
25.0	17.35	21.10	25.40	30.40	36.30							
30.0	17.10	21.00	25.40	30.50	36.40	43.20	46.20					
35.0	16.70	20.80	25.40	30.50	36.40	43.20	46.10	50.90	55.20	59.80		
40.0	16.10	20.50	25.30	30.50	36.40	43.10	46.10	50.80	55.00	59.50	69.50	
45.0	15.25	20.00	25.00	30.40	36.30	43.00	46.00	50.60	54.80	59.30	69.10	80.20
50.0		19.20	24.50	30.10	36.20	42.90	45.80	50.50	54.60	59.00	68.70	79.60
55.0			23.80	29.60	35.80	42.60	45.60	50.20	54.30	58.70	68.30	79.10
60.0			22.60	28.80	35.30	42.20	45.20	49.80	53.90	58.30	67.80	78.50
65.0				27.60	34.40	41.60	44.60	49.30	53.40	57.80	67.30	77.90
70.0					33.10	40.60	43.70	48.50	52.70	57.10	66.60	
75.0					31.20	39.20	42.40	47.40	51.80	56.30		

Additional restrictions, please see application guidelines

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /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 (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	7
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Additional restrictions, please see application guidelines

### ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Valve Coil	220V
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Control Kit	EC2-552
Discharge Temperature Protection	Discharge line thermostat
Sound Attenuation	Sound Shell (10dBA)
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Control Kit	EC3-652
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Solenoid valve	Standard
Valve Coil	24V AC
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Driver	EC3-D13

### 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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

Additional restrictions, please see application guidelines