



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

ZRD92KRE-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	7.17											
15.0	7.09											
20.0	6.67	8.41	10.45									
25.0	6.25	7.93	9.91	12.25	14.95							
30.0	5.82	7.43	9.34	11.60	14.20	17.20	18.50					
35.0	5.38	6.92	8.75	10.90	13.40	16.30	17.55	19.60	21.40	23.40		
40.0	4.95	6.40	8.14	10.20	12.60	15.35	16.60	18.55	20.30	22.20	26.30	
45.0	4.52	5.88	7.51	9.45	11.75	14.40	15.55	17.45	19.10	20.90	24.80	29.30
50.0		5.35	6.87	8.70	10.85	13.35	14.45	16.25	17.85	19.60	23.40	27.60
55.0			6.23	7.92	9.94	12.30	13.35	15.05	16.60	18.20	21.80	25.90
60.0			5.58	7.14	9.01	11.20	12.20	13.80	15.25	16.80	20.20	24.10
65.0				6.34	8.06	10.10	11.05	12.55	13.90	15.35	18.60	22.30
70.0					7.09	8.97	9.82	11.20	12.45	13.85	16.90	
75.0					6.11	7.81	8.59	9.86	11.05	12.30		

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
14.0	2.04											
15.0	2.07											
20.0	2.22	2.29	2.36									
25.0	2.39	2.47	2.55	2.64	2.72							
30.0	2.58	2.68	2.77	2.86	2.96	3.05	3.08					
35.0	2.80	2.91	3.01	3.12	3.21	3.31	3.34	3.40	3.44	3.48		
40.0	3.03	3.16	3.28	3.39	3.50	3.59	3.63	3.69	3.73	3.77	3.85	
45.0	3.29	3.44	3.57	3.70	3.81	3.91	3.95	4.01	4.05	4.09	4.16	4.22
50.0		3.74	3.89	4.03	4.15	4.26	4.30	4.36	4.40	4.44	4.51	4.57
55.0			4.24	4.39	4.52	4.64	4.68	4.74	4.78	4.82	4.89	4.95
60.0			4.62	4.79	4.93	5.05	5.10	5.16	5.20	5.24	5.31	5.36
65.0				5.21	5.37	5.50	5.55	5.61	5.66	5.70	5.77	5.81
70.0					5.84	5.98	6.03	6.10	6.15	6.19	6.26	
75.0					6.35	6.51	6.56	6.63	6.68	6.73		

Additional restrictions, please see application guidelines

50 Hz

ZRD92KRE-TFD

R513A

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	5.52											
15.0	5.59											
20.0	5.91	6.01	6.12									
25.0	6.21	6.32	6.43	6.54	6.64							
30.0	6.49	6.61	6.73	6.84	6.95	7.05	7.10					
35.0	6.77	6.90	7.02	7.14	7.25	7.36	7.40	7.46	7.51	7.56		
40.0	7.05	7.19	7.33	7.45	7.57	7.68	7.72	7.78	7.83	7.88	7.97	
45.0	7.34	7.50	7.65	7.79	7.91	8.03	8.07	8.13	8.18	8.22	8.31	8.38
50.0		7.83	8.00	8.15	8.28	8.40	8.45	8.51	8.56	8.60	8.69	8.76
55.0			8.38	8.54	8.69	8.82	8.87	8.94	8.99	9.03	9.12	9.19
60.0			8.80	8.99	9.15	9.29	9.34	9.41	9.47	9.52	9.61	9.68
65.0				9.49	9.66	9.82	9.88	9.96	10.02	10.07	10.16	10.23
70.0					10.25	10.42	10.48	10.57	10.64	10.69	10.79	
75.0					10.91	11.10	11.17	11.27	11.34	11.40		

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	45.70											
15.0	45.50											
20.0	44.90	55.20	67.20									
25.0	44.10	54.60	66.70	80.40	96.00							
30.0	43.30	53.90	66.00	79.90	95.60	113.00	121.00					
35.0	42.40	53.00	65.30	79.20	95.10	113.00	120.50	132.50	143.50	154.50		
40.0	41.40	52.10	64.30	78.40	94.30	112.00	120.00	132.00	143.00	154.50	178.50	
45.0	40.50	51.00	63.30	77.40	93.30	111.50	119.00	131.50	142.50	154.00	178.50	206.00
50.0		49.90	62.10	76.20	92.20	110.50	118.00	130.50	141.50	153.00	178.00	206.00
55.0			60.80	74.80	90.80	109.00	117.00	129.50	140.50	152.50	177.50	206.00
60.0			59.40	73.20	89.20	107.50	115.50	128.00	139.50	151.00	177.00	205.00
65.0				71.50	87.50	106.00	114.00	126.50	138.00	150.00	176.00	205.00
70.0					85.50	104.00	112.00	125.00	136.50	148.50	175.00	
75.0					83.40	102.00	110.00	123.00	135.00	147.50		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	21.4
Length/Width, mm	246/257
Height, mm	481
Net Weight, kg	43.1
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.89
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)
Max. Internal Free Volume, l	5.70
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	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Oil Charge	
Digital Control	Integrated Solenoid Valve
Discharge Temperature Protection	Internal Thermistor
Enclosure Class	IP21
Mounting Grommets	Rubber Grommet For Single
Check Valve	Discharge Low Leak Check Valve

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

<p>Mounting Grommets</p> <p>Mounting Grommets</p> <p>Digital Control</p> <p>Digital Control</p> <p>Oil Control System</p> <p>Sound Attenuation</p> <p>Crankcase Heater</p> <p>Crankcase Heater</p> <p>Sound Attenuation</p> <p>Rotalock valves</p>	<p>Standard</p> <p>Hard Mounts for Paralleling</p> <p>Digital Valve Coil 230V</p> <p>Digital Valve Coil 24V</p> <p>ALCO Trax-Oil OM3</p> <p>Sound Shell (12dBA)</p> <p>66 W External</p> <p>70 W External</p> <p>Sound Shell (10dBA)</p> <p>suction and discharge</p>
--	---

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