



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-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
10.0	1.98	2.49	3.08	3.76								
15.0	1.90	2.41	2.99	3.66	4.45							
20.0	1.80	2.29	2.86	3.53	4.30	5.18						
25.0	1.68	2.16	2.71	3.36	4.11	4.97	5.35	5.96				
30.0	1.54	2.00	2.54	3.17	3.89	4.73	5.10	5.69	6.22	6.79		
35.0	1.39	1.84	2.35	2.95	3.65	4.46	4.82	5.40	5.91	6.46		
40.0	1.24	1.66	2.15	2.72	3.39	4.17	4.52	5.07	5.57	6.10	7.27	
45.0	1.08	1.48	1.94	2.48	3.12	3.86	4.19	4.73	5.20	5.72	6.85	8.13
50.0		1.30	1.73	2.24	2.84	3.54	3.86	4.36	4.82	5.31	6.40	7.63
55.0			1.52	2.00	2.56	3.22	3.51	3.99	4.42	4.89	5.93	7.11
60.0			1.34	1.76	2.27	2.89	3.16	3.61	4.02	4.46	5.45	6.58
65.0				1.54	2.00	2.56	2.82	3.24	3.62	4.03	4.96	6.03
70.0					1.74	2.25	2.48	2.86	3.22	3.60	4.47	
75.0					1.50	1.94	2.16	2.50	2.83	3.18		

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	0.50	0.47	0.45	0.42								
15.0	0.56	0.54	0.52	0.50	0.49							
20.0	0.63	0.61	0.59	0.58	0.57	0.58						
25.0	0.70	0.69	0.67	0.65	0.64	0.65	0.66	0.68				
30.0	0.79	0.77	0.75	0.74	0.73	0.73	0.74	0.76	0.78	0.81		
35.0	0.90	0.88	0.85	0.83	0.82	0.82	0.82	0.84	0.86	0.89		
40.0	1.02	1.00	0.97	0.94	0.92	0.92	0.92	0.93	0.95	0.97	1.05	
45.0	1.18	1.15	1.12	1.08	1.05	1.03	1.03	1.04	1.05	1.07	1.14	1.25
50.0		1.33	1.28	1.24	1.20	1.17	1.16	1.16	1.17	1.18	1.24	1.34
55.0			1.48	1.43	1.38	1.34	1.32	1.32	1.32	1.32	1.36	1.44
60.0			1.73	1.66	1.58	1.54	1.52	1.50	1.49	1.49	1.51	1.58
65.0				1.92	1.84	1.76	1.74	1.71	1.70	1.68	1.69	1.74
70.0					2.13	2.04	2.01	1.96	1.94	1.92	1.90	
75.0					2.47	2.36	2.32	2.26	2.23	2.19		

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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
10.0	1.53	1.47	1.41	1.34								
15.0	1.69	1.65	1.60	1.55	1.51							
20.0	1.83	1.79	1.76	1.72	1.70	1.69						
25.0	1.96	1.93	1.90	1.87	1.86	1.86	1.87	1.88				
30.0	2.09	2.06	2.03	2.01	2.00	2.00	2.01	2.03	2.06	2.09		
35.0	2.23	2.20	2.17	2.15	2.13	2.14	2.14	2.17	2.19	2.23		
40.0	2.40	2.36	2.32	2.29	2.27	2.27	2.28	2.29	2.32	2.35	2.45	
45.0	2.60	2.55	2.50	2.46	2.42	2.41	2.42	2.43	2.45	2.48	2.56	2.69
50.0		2.78	2.71	2.65	2.60	2.58	2.57	2.58	2.59	2.61	2.69	2.81
55.0			2.97	2.89	2.82	2.78	2.76	2.76	2.76	2.77	2.83	2.93
60.0			3.29	3.18	3.09	3.02	3.00	2.97	2.96	2.96	3.00	3.08
65.0				3.54	3.41	3.31	3.28	3.24	3.22	3.20	3.21	3.26
70.0					3.81	3.67	3.63	3.57	3.53	3.50	3.47	
75.0					4.29	4.11	4.05	3.97	3.91	3.86		

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	12.20	15.00	18.15	21.70								
15.0	12.25	15.10	18.35	22.00	26.20							
20.0	12.10	15.05	18.40	22.20	26.40	31.20						
25.0	11.85	14.85	18.25	22.10	26.40	31.30	33.30	36.70				
30.0	11.45	14.50	17.95	21.90	26.20	31.20	33.30	36.70	39.70	42.80		
35.0	10.95	14.05	17.55	21.50	25.90	30.90	33.10	36.50	39.50	42.70		
40.0	10.35	13.45	17.00	21.00	25.40	30.50	32.70	36.10	39.20	42.50	49.50	
45.0	9.72	12.85	16.35	20.30	24.80	29.90	32.10	35.70	38.80	42.10	49.20	57.10
50.0		12.15	15.65	19.60	24.10	29.30	31.50	35.00	38.20	41.50	48.80	56.80
55.0			14.90	18.85	23.40	28.50	30.70	34.30	37.50	40.90	48.20	56.40
60.0			14.20	18.05	22.50	27.70	29.90	33.50	36.70	40.20	47.60	55.90
65.0				17.30	21.70	26.80	29.10	32.70	35.90	39.40	47.00	55.40
70.0					21.00	26.00	28.30	31.90	35.20	38.70	46.40	
75.0					20.40	25.40	27.60	31.30	34.50	38.10		

Additional restrictions, please see application guidelines

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)
Sound Pressure @ 1m (HT), dBA	54
Sound Power (HT), dBA	65
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 (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	4.9
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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Additional restrictions, please see application guidelines

50 Hz

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ACCESSORIES OPTIONAL

Crankcase Heater
Oil Control System
Sound Attenuation
Rotalock valves
Mounting Grommets

70 W External
ALCO Trax-Oil OM3
Sound Shell (10dBA)
suction and discharge
Standard

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

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