



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 5 K Suction Superheat OEM envelope
- Maximum Evaporating Temperature

Additional restrictions, please see application guidelines

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

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	7.46	9.31	11.55	14.20								
15.0	7.09	8.87	11.00	13.60	16.65							
20.0	6.72	8.43	10.50	12.95	15.90	19.30						
25.0	6.34	7.99	9.96	12.30	15.10	18.40	19.85	22.20				
30.0	5.96	7.53	9.41	11.65	14.30	17.45	18.80	21.10	23.10	25.30		
35.0	5.58	7.07	8.86	11.00	13.50	16.45	17.80	19.95	21.90	23.90		
40.0	5.20	6.61	8.29	10.30	12.70	15.50	16.75	18.75	20.60	22.60	27.00	
45.0	4.82	6.14	7.72	9.60	11.85	14.50	15.65	17.60	19.30	21.20	25.40	30.10
50.0		5.67	7.14	8.89	11.00	13.45	14.55	16.35	18.00	19.80	23.70	28.20
55.0			6.55	8.17	10.10	12.40	13.45	15.15	16.70	18.35	22.00	26.30
60.0			5.96	7.44	9.23	11.35	12.30	13.90	15.30	16.85	20.30	24.40
65.0				6.71	8.33	10.30	11.15	12.60	13.95	15.40	18.60	22.40
70.0					7.42	9.19	9.99	11.30	12.55	13.85	16.85	
75.0					6.50	8.08	8.81	10.00	11.10	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
10.0	1.67	1.75	1.84	1.94								
15.0	1.84	1.92	2.01	2.11	2.22							
20.0	2.03	2.11	2.20	2.30	2.42	2.54						
25.0	2.24	2.32	2.41	2.52	2.63	2.76	2.81	2.89				
30.0	2.47	2.56	2.65	2.76	2.87	3.00	3.05	3.13	3.20	3.28		
35.0	2.74	2.82	2.91	3.02	3.13	3.26	3.32	3.40	3.47	3.55		
40.0	3.03	3.11	3.20	3.31	3.43	3.56	3.61	3.69	3.77	3.84	4.00	
45.0	3.34	3.43	3.52	3.63	3.75	3.88	3.93	4.02	4.09	4.17	4.33	4.50
50.0		3.78	3.87	3.98	4.10	4.23	4.29	4.37	4.45	4.53	4.69	4.86
55.0			4.26	4.37	4.49	4.62	4.67	4.76	4.84	4.92	5.08	5.26
60.0			4.68	4.78	4.91	5.04	5.10	5.18	5.26	5.34	5.51	5.69
65.0				5.24	5.36	5.50	5.55	5.64	5.72	5.80	5.97	6.15
70.0					5.86	5.99	6.05	6.14	6.22	6.30	6.47	
75.0					6.39	6.53	6.59	6.68	6.76	6.84		

Additional restrictions, please see application guidelines

50 Hz

ZR92KRE-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
10.0	5.03	5.10	5.17	5.25								
15.0	5.17	5.23	5.31	5.40	5.51							
20.0	5.33	5.40	5.49	5.58	5.69	5.81						
25.0	5.52	5.60	5.69	5.79	5.91	6.03	6.09	6.17				
30.0	5.74	5.83	5.92	6.03	6.15	6.29	6.35	6.44	6.52	6.60		
35.0	6.01	6.10	6.20	6.31	6.44	6.58	6.64	6.74	6.82	6.91		
40.0	6.32	6.41	6.52	6.64	6.77	6.92	6.98	7.08	7.17	7.26	7.46	
45.0	6.68	6.77	6.88	7.01	7.15	7.30	7.37	7.47	7.56	7.66	7.86	8.08
50.0		7.18	7.30	7.43	7.57	7.74	7.80	7.91	8.01	8.11	8.32	8.54
55.0			7.77	7.91	8.06	8.22	8.29	8.41	8.50	8.61	8.82	9.06
60.0			8.30	8.44	8.60	8.77	8.84	8.96	9.06	9.17	9.39	9.63
65.0				9.04	9.20	9.38	9.45	9.57	9.68	9.79	10.02	10.27
70.0					9.87	10.05	10.13	10.25	10.36	10.47	10.71	
75.0					10.61	10.80	10.88	11.00	11.12	11.23		

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	47.10	57.60	69.90	84.40								
15.0	46.80	57.30	69.70	84.10	101.00							
20.0	46.50	57.00	69.40	83.80	100.50	119.50						
25.0	46.10	56.60	69.00	83.40	100.00	119.00	127.50	141.00				
30.0	45.70	56.30	68.60	82.90	99.50	118.50	127.00	140.00	152.00	164.50		
35.0	45.30	55.80	68.10	82.40	98.90	118.00	126.00	139.50	151.00	163.50		
40.0	44.90	55.40	67.60	81.80	98.10	117.00	125.00	138.50	150.00	162.50	190.00	
45.0	44.50	54.90	67.00	81.00	97.20	116.00	124.00	137.00	149.00	161.50	188.50	219.00
50.0		54.50	66.40	80.30	96.30	114.50	123.00	136.00	147.50	160.00	187.00	217.00
55.0			65.80	79.40	95.20	113.50	121.50	134.50	146.00	158.00	185.50	216.00
60.0			65.10	78.40	94.00	112.00	120.00	132.50	144.00	156.50	183.50	214.00
65.0				77.50	92.70	110.50	118.50	131.00	142.50	154.50	181.50	212.00
70.0					91.30	109.00	116.50	129.00	140.50	152.50	179.50	
75.0					90.00	107.00	115.00	127.00	138.50	150.50		

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	246/257
Height, mm	443
Net Weight, kg	43.5
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)
Sound Pressure @ 1m (HT), dBA	65
Sound Power (HT), dBA	76
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
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

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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

Additional restrictions, please see application guidelines