



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

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	2.30	2.92	3.67	4.56								
15.0	2.19	2.80	3.53	4.39	5.40							
20.0	2.08	2.67	3.37	4.21	5.18	6.32						
25.0	1.96	2.54	3.22	4.02	4.96	6.06	6.54	7.32				
30.0	1.85	2.40	3.06	3.83	4.73	5.78	6.25	7.00	7.67	8.40		
35.0	1.73	2.26	2.89	3.62	4.49	5.50	5.94	6.66	7.31	8.00		
40.0	1.60	2.11	2.71	3.41	4.24	5.20	5.63	6.32	6.94	7.60	9.07	
45.0	1.46	1.96	2.52	3.20	3.98	4.90	5.30	5.96	6.55	7.18	8.59	10.20
50.0		1.79	2.33	2.96	3.71	4.58	4.96	5.59	6.15	6.75	8.09	9.61
55.0			2.12	2.72	3.42	4.24	4.61	5.20	5.73	6.30	7.57	9.03
60.0			1.90	2.47	3.12	3.90	4.24	4.79	5.30	5.84	7.04	8.42
65.0				2.20	2.81	3.53	3.85	4.37	4.85	5.36	6.49	7.79
70.0					2.48	3.15	3.45	3.94	4.38	4.85	5.92	
75.0					2.14	2.75	3.03	3.48	3.89	4.33		

50 Hz

ZR36KRE-TFD

R450A Dew Point

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	0.62	0.61	0.62	0.63								
15.0	0.68	0.68	0.68	0.69	0.71							
20.0	0.76	0.75	0.75	0.76	0.77	0.80						
25.0	0.84	0.84	0.83	0.84	0.85	0.86	0.88	0.89				
30.0	0.94	0.93	0.93	0.93	0.93	0.95	0.95	0.97	0.98	1.01		
35.0	1.05	1.04	1.03	1.03	1.03	1.04	1.04	1.06	1.07	1.09		
40.0	1.18	1.16	1.16	1.14	1.14	1.15	1.16	1.16	1.18	1.18	1.23	
45.0	1.32	1.31	1.30	1.28	1.28	1.28	1.28	1.28	1.30	1.30	1.34	1.38
50.0		1.47	1.46	1.44	1.43	1.42	1.42	1.43	1.44	1.44	1.46	1.50
55.0			1.64	1.62	1.60	1.60	1.60	1.59	1.60	1.60	1.62	1.64
60.0			1.84	1.82	1.80	1.79	1.78	1.78	1.78	1.78	1.79	1.81
65.0				2.05	2.03	2.01	2.00	2.00	1.99	1.99	1.99	2.00
70.0					2.28	2.25	2.25	2.24	2.23	2.22	2.22	
75.0					2.56	2.53	2.52	2.51	2.50	2.49		

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	2.29	2.28	2.27	2.29								
15.0	2.49	2.48	2.47	2.48	2.51							
20.0	2.67	2.65	2.65	2.66	2.68	2.71						
25.0	2.83	2.82	2.81	2.82	2.84	2.87	2.88	2.91				
30.0	2.99	2.97	2.97	2.97	2.98	3.01	3.02	3.05	3.07	3.10		
35.0	3.16	3.13	3.12	3.12	3.13	3.15	3.16	3.18	3.20	3.23		
40.0	3.33	3.30	3.29	3.28	3.28	3.29	3.30	3.32	3.34	3.36	3.41	
45.0	3.53	3.49	3.47	3.45	3.45	3.46	3.46	3.47	3.49	3.50	3.54	3.60
50.0		3.71	3.68	3.65	3.64	3.64	3.64	3.65	3.65	3.67	3.70	3.74
55.0			3.92	3.88	3.86	3.85	3.85	3.85	3.85	3.86	3.88	3.91
60.0			4.20	4.16	4.13	4.10	4.10	4.09	4.09	4.09	4.10	4.12
65.0				4.48	4.43	4.40	4.39	4.38	4.37	4.36	4.36	4.36
70.0					4.80	4.75	4.74	4.71	4.70	4.69	4.67	
75.0					5.23	5.17	5.14	5.11	5.09	5.07		

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	13.40	16.70	20.60	25.10								
15.0	13.30	16.65	20.60	25.10	30.30							
20.0	13.20	16.60	20.50	25.10	30.30	36.20						
25.0	13.05	16.45	20.40	25.00	30.20	36.10	38.70	42.90				
30.0	12.90	16.35	20.30	24.90	30.10	36.00	38.60	42.70	46.40	50.30		
35.0	12.65	16.15	20.20	24.70	29.90	35.90	38.40	42.60	46.20	50.10		
40.0	12.40	15.95	19.95	24.50	29.70	35.60	38.20	42.30	46.00	49.80	58.20	
45.0	12.05	15.60	19.65	24.20	29.40	35.30	37.90	42.00	45.60	49.50	57.90	67.20
50.0		15.20	19.25	23.80	29.00	34.90	37.50	41.60	45.20	49.00	57.40	66.70
55.0			18.75	23.30	28.50	34.40	36.90	41.00	44.60	48.50	56.80	66.20
60.0			18.05	22.60	27.80	33.70	36.20	40.30	43.90	47.80	56.10	65.50
65.0				21.70	26.90	32.80	35.30	39.40	43.00	46.90	55.20	64.60
70.0					25.80	31.60	34.20	38.30	41.90	45.70	54.10	
75.0					24.30	30.20	32.70	36.80	40.50	44.30		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.61
Length/Width, mm	239/245
Height, mm	387
Net Weight, kg	27.3
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)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	59
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
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	605
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	7.2
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Standard
Rotalock valves	suction and discharge

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