



Minimum Evaporating Temp. With:

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

Additional restrictions, please see application guidelines

Suction Return Temperature 18.3°C

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
10.0	7.72	9.45	11.50	14.00						
15.0	7.32	9.04	11.10	13.50						
20.0	6.91	8.61	10.60	13.00	15.75					
25.0	6.50	8.16	10.10	12.40	15.10	18.25	19.65			
30.0	6.10	7.70	9.58	11.80	14.40	17.40	18.75	21.00	22.90	
35.0	5.71	7.24	9.04	11.15	13.60	16.50	17.80	19.90	21.80	
40.0		6.79	8.49	10.50	12.80	15.55	16.80	18.75	20.60	
45.0		6.35	7.93	9.79	12.00	14.55	15.70	17.60	19.30	
50.0			7.39	9.10	11.15	13.55	14.60	16.35	17.95	
55.0				8.41	10.25	12.45	13.45	15.05	16.55	
60.0				7.73	9.39	11.40	12.30	13.75	15.10	
65.0					8.51	10.30	11.10	12.40	13.65	
70.0					7.64	9.17	9.88	11.05	12.15	
75.0						8.07	8.67	9.68	10.65	

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.94	2.01	2.09	2.19						
15.0	2.07	2.13	2.21	2.31						
20.0	2.22	2.29	2.37	2.46	2.57					
25.0	2.39	2.47	2.55	2.64	2.74	2.87	2.93			
30.0	2.58	2.68	2.77	2.86	2.96	3.07	3.12	3.20	3.28	
35.0	2.79	2.91	3.01	3.11	3.20	3.31	3.35	3.42	3.49	
40.0		3.17	3.29	3.39	3.48	3.58	3.62	3.69	3.75	
45.0		3.45	3.58	3.70	3.80	3.89	3.93	3.99	4.05	
50.0			3.91	4.04	4.15	4.24	4.28	4.34	4.39	
55.0				4.40	4.52	4.63	4.67	4.72	4.77	
60.0				4.80	4.93	5.05	5.09	5.15	5.19	
65.0					5.37	5.50	5.55	5.60	5.65	
70.0					5.84	5.99	6.04	6.10	6.15	
75.0						6.50	6.56	6.63	6.68	

Additional restrictions, please see application guidelines

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
10.0	5.24	5.40	5.57	5.76						
15.0	5.58	5.71	5.86	6.03						
20.0	5.89	6.02	6.15	6.29	6.45					
25.0	6.19	6.31	6.43	6.56	6.69	6.86	6.93			
30.0	6.48	6.60	6.72	6.83	6.95	7.09	7.16	7.26	7.36	
35.0	6.76	6.90	7.01	7.12	7.23	7.36	7.41	7.50	7.58	
40.0		7.19	7.32	7.44	7.54	7.65	7.70	7.78	7.85	
45.0		7.50	7.65	7.77	7.88	7.99	8.03	8.10	8.16	
50.0			8.00	8.14	8.26	8.36	8.41	8.47	8.53	
55.0				8.54	8.67	8.79	8.83	8.90	8.96	
60.0				8.98	9.14	9.27	9.32	9.39	9.45	
65.0					9.65	9.81	9.86	9.94	10.01	
70.0					10.23	10.41	10.48	10.57	10.64	
75.0						11.08	11.16	11.27	11.35	

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
10.0	42.30	51.90	63.50	77.60						
15.0	41.60	51.60	63.50	77.80						
20.0	40.90	51.10	63.30	77.90	95.20					
25.0	40.10	50.50	62.90	77.60	95.20	116.00	125.50			
30.0	39.40	49.90	62.40	77.20	94.90	116.00	125.50	141.00	155.00	
35.0	38.60	49.20	61.80	76.60	94.40	115.50	125.00	140.50	155.00	
40.0		48.60	61.10	75.90	93.60	114.50	124.50	140.00	154.50	
45.0		48.00	60.40	75.00	92.60	113.50	123.00	139.00	153.50	
50.0			59.70	74.10	91.40	112.50	122.00	137.50	152.00	
55.0				73.10	90.10	110.50	120.00	135.50	150.00	
60.0				72.30	88.70	109.00	118.00	133.50	148.00	
65.0					87.30	107.00	116.00	131.00	145.50	
70.0					86.00	104.50	113.50	128.50	142.50	
75.0						102.50	111.00	125.50	139.50	

Additional restrictions, please see application guidelines

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	21.4
Length/Width, mm	258/263
Height, mm	442
Net Weight, kg	43.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
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 (MT), dBA	68
Sound Power (MT), dBA	79
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	5.70
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
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 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard

Additional restrictions, please see application guidelines

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Enclosure Class	IP66 With Molded Plug
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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09

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