



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return      — 10 K Suction Superheat
- 25 °C Suction Gas Return with Voltage limit ± 0 %
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°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	2.11	2.65	3.30	4.07						
15.0	2.03	2.55	3.18	3.94						
20.0	1.94	2.45	3.06	3.79	4.65					
25.0	1.85	2.34	2.93	3.64	4.47	5.43	5.86			
30.0	1.76	2.23	2.80	3.48	4.28	5.20	5.61	6.27	6.86	
35.0	1.66	2.12	2.67	3.32	4.08	4.97	5.36	5.99	6.55	7.15
40.0	1.58	2.01	2.53	3.15	3.88	4.72	5.10	5.70	6.23	6.81
45.0		1.89	2.39	2.98	3.67	4.47	4.83	5.39	5.91	6.45
50.0			2.24	2.80	3.45	4.21	4.54	5.08	5.57	6.08
55.0				2.61	3.23	3.94	4.26	4.76	5.22	5.70
60.0				2.43	3.00	3.66	3.96	4.43	4.86	5.31
65.0					2.77	3.38	3.66	4.10	4.49	4.91
70.0						3.09	3.34	3.75	4.11	4.50
75.0						2.80	3.03	3.40	3.73	4.08

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	0.54	0.54	0.54	0.55						
15.0	0.62	0.61	0.61	0.62						
20.0	0.69	0.69	0.69	0.70	0.71					
25.0	0.77	0.77	0.78	0.78	0.79	0.80	0.80			
30.0	0.86	0.86	0.86	0.87	0.88	0.89	0.89	0.90	0.91	
35.0	0.95	0.96	0.96	0.97	0.98	0.99	0.99	1.00	1.01	1.01
40.0	1.06	1.06	1.07	1.08	1.08	1.10	1.10	1.10	1.11	1.12
45.0		1.18	1.19	1.20	1.21	1.22	1.22	1.23	1.23	1.24
50.0			1.32	1.34	1.34	1.36	1.36	1.36	1.36	1.37
55.0				1.48	1.50	1.50	1.51	1.52	1.52	1.52
60.0				1.64	1.66	1.68	1.68	1.68	1.69	1.70
65.0					1.84	1.86	1.86	1.88	1.88	1.88
70.0						2.07	2.07	2.08	2.09	2.09
75.0						2.30	2.30	2.31	2.32	2.32

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	2.31	2.29	2.28	2.28						
15.0	2.37	2.35	2.34	2.34						
20.0	2.44	2.42	2.41	2.41	2.41					
25.0	2.51	2.50	2.49	2.49	2.49	2.51	2.52			
30.0	2.59	2.59	2.58	2.58	2.59	2.60	2.61	2.62	2.63	
35.0	2.69	2.69	2.69	2.70	2.70	2.71	2.72	2.73	2.74	2.75
40.0	2.81	2.81	2.82	2.83	2.84	2.85	2.85	2.86	2.87	2.88
45.0		2.96	2.97	2.98	2.99	3.00	3.01	3.02	3.02	3.03
50.0			3.15	3.16	3.18	3.19	3.20	3.20	3.21	3.21
55.0				3.37	3.39	3.41	3.41	3.42	3.43	3.43
60.0				3.61	3.64	3.66	3.66	3.67	3.68	3.68
65.0					3.92	3.94	3.95	3.96	3.97	3.97
70.0						4.27	4.28	4.29	4.30	4.30
75.0						4.64	4.65	4.66	4.67	4.67

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	10.25	12.90	16.10	20.00						
15.0	10.20	12.85	16.10	20.00						
20.0	10.10	12.75	16.05	19.95	24.60					
25.0	10.00	12.70	16.00	19.95	24.60	30.10	32.60			
30.0	9.90	12.60	15.90	19.85	24.60	30.10	32.50	36.50	40.20	
35.0	9.79	12.50	15.80	19.75	24.50	30.00	32.50	36.50	40.10	44.00
40.0	9.67	12.35	15.65	19.60	24.30	29.90	32.30	36.40	40.00	43.90
45.0		12.25	15.50	19.45	24.20	29.70	32.20	36.20	39.80	43.80
50.0			15.35	19.25	23.90	29.50	31.90	36.00	39.60	43.60
55.0				19.05	23.70	29.20	31.70	35.70	39.30	43.30
60.0				18.80	23.40	28.90	31.30	35.30	39.00	42.90
65.0					23.10	28.50	31.00	35.00	38.60	42.60
70.0						28.10	30.50	34.50	38.20	42.10
75.0						27.70	30.10	34.10	37.70	41.70

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	6.83
Length/Width, mm	242/242
Height, mm	389
Net Weight, kg	25.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.12
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 (8.5)
Sound Pressure @ 1m (MT), dBA	55
Sound Power (MT), dBA	66
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	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	6.5
Locked Rotor Current, A	32
Winding Resistance, ohm	5.8
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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