



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return    
 — 10 K Suction Superheat    
 — 20 °C Suction Gas Return
- 25 °C Suction Gas Return with Voltage limit ± 0 %
- Maximum Evaporating Temperature

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	4.44	5.57	6.93	8.57						
15.0	4.26	5.36	6.69	8.27						
20.0	4.07	5.14	6.43	7.97	9.78					
25.0	3.88	4.91	6.16	7.65	9.39	11.40	12.30			
30.0	3.69	4.68	5.88	7.31	8.99	10.95	11.80	13.20	14.40	
35.0	3.50	4.45	5.60	6.97	8.57	10.45	11.25	12.60	13.75	
40.0	3.30	4.21	5.31	6.61	8.14	9.92	10.70	11.95	13.10	
45.0		3.97	5.00	6.24	7.69	9.38	10.15	11.30	12.40	
50.0			4.70	5.86	7.23	8.83	9.53	10.65	11.70	
55.0				5.48	6.76	8.26	8.92	9.98	10.95	
60.0				5.08	6.28	7.68	8.29	9.28	10.20	
65.0					5.79	7.08	7.65	8.57	9.40	
70.0						6.47	6.99	7.84	8.60	
75.0						5.84	6.32	7.09	7.78	

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	1.12	1.12	1.12	1.14						
15.0	1.28	1.27	1.28	1.28						
20.0	1.44	1.43	1.44	1.44	1.46					
25.0	1.60	1.60	1.60	1.62	1.64	1.66	1.67			
30.0	1.78	1.78	1.80	1.80	1.82	1.84	1.85	1.86	1.88	
35.0	1.98	1.98	2.00	2.01	2.03	2.04	2.05	2.07	2.08	
40.0	2.19	2.21	2.22	2.24	2.25	2.27	2.28	2.29	2.30	
45.0		2.45	2.47	2.49	2.51	2.53	2.53	2.54	2.55	
50.0			2.74	2.77	2.79	2.81	2.82	2.83	2.84	
55.0				3.07	3.10	3.12	3.13	3.14	3.15	
60.0				3.42	3.45	3.47	3.48	3.49	3.50	
65.0					3.83	3.86	3.87	3.89	3.89	
70.0						4.29	4.30	4.32	4.33	
75.0						4.76	4.78	4.80	4.81	

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	4.88	4.83	4.81	4.81						
15.0	5.01	4.96	4.94	4.94						
20.0	5.15	5.11	5.09	5.09	5.10					
25.0	5.30	5.27	5.26	5.26	5.27	5.30	5.32			
30.0	5.48	5.46	5.46	5.46	5.47	5.50	5.51	5.54	5.57	
35.0	5.69	5.69	5.69	5.70	5.71	5.73	5.75	5.77	5.79	
40.0	5.93	5.95	5.96	5.98	5.99	6.02	6.03	6.04	6.06	
45.0		6.25	6.28	6.30	6.33	6.35	6.36	6.38	6.39	
50.0			6.65	6.69	6.72	6.74	6.75	6.77	6.78	
55.0				7.13	7.17	7.20	7.21	7.23	7.24	
60.0				7.64	7.69	7.73	7.74	7.76	7.77	
65.0					8.28	8.33	8.35	8.37	8.38	
70.0						9.02	9.04	9.06	9.08	
75.0						9.80	9.82	9.85	9.87	

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	21.70	27.30	34.10	42.30						
15.0	21.50	27.20	34.10	42.30						
20.0	21.40	27.00	34.00	42.30	52.20					
25.0	21.20	26.90	33.80	42.20	52.20	63.90	69.10			
30.0	20.90	26.70	33.70	42.10	52.00	63.80	69.00	77.50	85.20	
35.0	20.70	26.50	33.40	41.80	51.80	63.60	68.80	77.40	85.10	
40.0	20.50	26.20	33.20	41.60	51.50	63.30	68.60	77.10	84.90	
45.0		25.90	32.90	41.20	51.20	62.90	68.20	76.70	84.50	
50.0			32.50	40.80	50.70	62.50	67.70	76.30	84.00	
55.0				40.30	50.20	61.90	67.10	75.70	83.40	
60.0				39.80	49.60	61.20	66.40	75.00	82.70	
65.0					48.90	60.40	65.60	74.10	81.90	
70.0						59.60	64.80	73.20	81.00	
75.0						58.70	63.80	72.30	80.00	

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	14.4
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	37.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	61
Sound Power (MT), dBA	72
Sound Power with Sound Shell (MT), dBA	67
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	4.20
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	12.8
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.74
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