



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	3.04	3.76	4.64	5.67					
5.0	3.03	3.75	4.62	5.65					
10.0	2.88	3.59	4.46	5.48	6.66				
15.0	2.73	3.44	4.29	5.29	6.45				
20.0	2.60	3.29	4.11	5.09	6.22	7.51			
25.0	2.46	3.13	3.93	4.88	5.97	7.23	8.64	9.26	
30.0	2.33	2.97	3.74	4.65	5.70	6.91	8.28	8.87	9.81
35.0	2.20	2.80	3.53	4.40	5.40	6.56	7.87	8.44	9.34
40.0		2.63	3.31	4.13	5.08	6.17	7.42	7.97	8.83
45.0			3.08	3.83	4.72	5.76	6.93	7.45	8.27
50.0			2.82	3.51	4.34	5.30	6.40	6.89	7.66
55.0				3.17	3.92	4.80	5.82	6.27	6.99
60.0					3.46	4.26	5.20	5.61	6.27

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	0.69	0.72	0.73	0.74					
5.0	0.70	0.72	0.74	0.75					
10.0	0.78	0.81	0.83	0.84	0.86				
15.0	0.87	0.90	0.92	0.94	0.96				
20.0	0.98	1.00	1.02	1.04	1.06	1.08			
25.0	1.10	1.12	1.13	1.15	1.17	1.20	1.22	1.23	
30.0	1.25	1.26	1.27	1.28	1.30	1.32	1.35	1.36	1.38
35.0	1.43	1.42	1.42	1.43	1.44	1.46	1.50	1.50	1.53
40.0		1.62	1.62	1.62	1.62	1.64	1.66	1.68	1.70
45.0			1.85	1.84	1.83	1.84	1.86	1.86	1.88
50.0			2.13	2.10	2.08	2.08	2.09	2.09	2.11
55.0				2.41	2.38	2.36	2.36	2.36	2.37
60.0					2.72	2.69	2.67	2.67	2.67

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	2.23	2.25	2.25	2.25					
5.0	2.23	2.25	2.26	2.26					
10.0	2.30	2.32	2.34	2.35	2.35				
15.0	2.37	2.39	2.41	2.43	2.45				
20.0	2.46	2.48	2.50	2.52	2.54	2.56			
25.0	2.58	2.59	2.61	2.63	2.65	2.68	2.71	2.72	
30.0	2.73	2.74	2.75	2.77	2.79	2.81	2.84	2.86	2.88
35.0	2.93	2.93	2.93	2.94	2.95	2.98	3.01	3.02	3.05
40.0		3.17	3.15	3.15	3.16	3.18	3.20	3.22	3.24
45.0			3.44	3.42	3.42	3.42	3.45	3.46	3.48
50.0			3.79	3.75	3.73	3.73	3.74	3.75	3.77
55.0				4.16	4.12	4.10	4.10	4.10	4.11
60.0					4.59	4.54	4.52	4.52	4.52

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	13.55	16.80	20.80	25.60					
5.0	13.50	16.80	20.80	25.60					
10.0	13.25	16.65	20.70	25.60	31.30				
15.0	13.05	16.50	20.70	25.60	31.50				
20.0	12.85	16.35	20.60	25.60	31.50	38.40			
25.0	12.70	16.20	20.40	25.50	31.50	38.40	46.40	49.90	
30.0	12.50	16.00	20.30	25.30	31.30	38.30	46.40	49.90	55.70
35.0	12.35	15.80	20.00	25.10	31.10	38.10	46.20	49.80	55.60
40.0		15.55	19.70	24.70	30.60	37.60	45.80	49.40	55.20
45.0			19.25	24.20	30.00	37.00	45.10	48.70	54.60
50.0			18.65	23.40	29.20	36.10	44.20	47.80	53.70
55.0				22.50	28.10	34.90	42.90	46.50	52.40
60.0					26.70	33.30	41.20	44.80	50.60

### 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 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	1397
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