



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return     — 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	12.5
15.0	4.48	5.69	7.10	8.71	10.55	12.60				
20.0	4.21	5.41	6.79	8.38	10.20	12.25				
25.0	3.95	5.12	6.47	8.03	9.81	11.85	14.10	15.10		
30.0	3.69	4.82	6.13	7.66	9.40	11.40	13.65	14.60	16.10	17.45
35.0	3.43	4.51	5.78	7.25	8.95	10.90	13.10	14.05	15.55	16.90
40.0	3.17	4.20	5.41	6.83	8.48	10.35	12.50	13.45	14.95	16.25
45.0		3.87	5.02	6.38	7.97	9.80	11.90	12.80	14.30	15.55
50.0			4.62	5.91	7.43	9.20	11.25	12.15	13.55	14.85
55.0				5.42	6.86	8.55	10.50	11.40	12.80	14.05
60.0					6.26	7.87	9.77	10.60	11.95	13.20
65.0						7.16	8.97	9.78	11.10	12.30

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	1.35	1.36	1.36	1.36	1.36	1.36				
20.0	1.52	1.54	1.54	1.54	1.54	1.54				
25.0	1.72	1.74	1.74	1.74	1.74	1.74	1.74	1.74		
30.0	1.94	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.96	1.96
35.0	2.19	2.21	2.22	2.22	2.21	2.20	2.20	2.20	2.20	2.20
40.0	2.47	2.49	2.50	2.50	2.50	2.49	2.48	2.48	2.47	2.47
45.0		2.81	2.83	2.83	2.82	2.81	2.80	2.79	2.79	2.78
50.0			3.19	3.20	3.19	3.18	3.16	3.15	3.14	3.13
55.0				3.61	3.60	3.59	3.57	3.56	3.55	3.54
60.0					4.06	4.05	4.02	4.01	4.00	3.99
65.0						4.56	4.54	4.53	4.51	4.49

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	12.5
15.0	3.90	3.91	3.90	3.89	3.88	3.88				
20.0	4.02	4.05	4.06	4.06	4.06	4.06				
25.0	4.16	4.20	4.23	4.24	4.24	4.25	4.27	4.28		
30.0	4.33	4.39	4.42	4.44	4.45	4.46	4.48	4.49	4.50	4.52
35.0	4.54	4.61	4.66	4.68	4.70	4.71	4.72	4.72	4.73	4.75
40.0	4.81	4.89	4.94	4.97	4.99	4.99	5.00	5.00	5.00	5.01
45.0		5.23	5.29	5.32	5.34	5.34	5.33	5.33	5.33	5.33
50.0			5.71	5.74	5.75	5.75	5.73	5.72	5.71	5.71
55.0				6.24	6.25	6.23	6.21	6.19	6.17	6.16
60.0					6.84	6.81	6.77	6.75	6.72	6.69
65.0						7.49	7.44	7.41	7.37	7.33

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	12.5
15.0	22.00	27.50	33.90	41.00	49.00	57.80				
20.0	21.50	27.10	33.60	40.90	49.00	58.10				
25.0	20.90	26.70	33.20	40.60	48.90	58.20	68.50	72.90		
30.0	20.30	26.10	32.80	40.30	48.70	58.20	68.70	73.20	80.30	86.40
35.0	19.75	25.50	32.20	39.80	48.30	58.00	68.70	73.30	80.60	86.90
40.0	19.10	24.90	31.50	39.10	47.80	57.60	68.50	73.30	80.70	87.20
45.0		24.10	30.70	38.30	47.10	57.00	68.10	73.00	80.60	87.30
50.0			29.80	37.40	46.10	56.20	67.50	72.40	80.20	87.10
55.0				36.20	45.00	55.10	66.70	71.70	79.70	86.80
60.0					43.60	53.80	65.50	70.70	78.90	86.20
65.0						52.20	64.10	69.40	77.90	85.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	11.4
Length/Width, mm	246/246
Height, mm	423
Net Weight, kg	28.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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 Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	4.6
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	5.10
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
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

**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