



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	5.03	6.26	7.77	9.60					
5.0	5.00	6.23	7.73	9.56					
10.0	4.79	5.97	7.41	9.16	11.25				
15.0	4.57	5.71	7.10	8.76	10.75				
20.0	4.37	5.46	6.79	8.37	10.25	12.45			
25.0	4.16	5.21	6.48	7.99	9.77	11.90	14.30	15.40	
30.0	3.95	4.96	6.17	7.60	9.29	11.30	13.60	14.60	16.25
35.0	3.75	4.71	5.86	7.21	8.81	10.70	12.85	13.85	15.40
40.0		4.46	5.54	6.82	8.32	10.10	12.15	13.05	14.50
45.0			5.23	6.43	7.83	9.48	11.40	12.25	13.65
50.0			4.90	6.02	7.34	8.88	10.65	11.45	12.75
55.0				5.61	6.83	8.26	9.93	10.65	11.85
60.0					6.32	7.64	9.17	9.86	10.95

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	1.04	1.08	1.13	1.19					
5.0	1.06	1.10	1.14	1.20					
10.0	1.20	1.24	1.28	1.34	1.40				
15.0	1.37	1.40	1.44	1.49	1.55				
20.0	1.56	1.59	1.62	1.66	1.72	1.78			
25.0	1.77	1.80	1.84	1.87	1.91	1.96	2.04	2.07	
30.0	2.01	2.04	2.07	2.10	2.14	2.18	2.24	2.27	2.31
35.0	2.27	2.31	2.34	2.36	2.39	2.43	2.47	2.50	2.53
40.0		2.61	2.63	2.66	2.68	2.71	2.75	2.76	2.79
45.0			2.97	2.99	3.01	3.03	3.05	3.07	3.09
50.0			3.34	3.36	3.37	3.39	3.40	3.41	3.43
55.0				3.77	3.78	3.79	3.79	3.80	3.80
60.0					4.22	4.23	4.23	4.23	4.23

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	3.62	3.64	3.67	3.72					
5.0	3.64	3.66	3.69	3.73					
10.0	3.75	3.77	3.80	3.84	3.90				
15.0	3.87	3.90	3.93	3.96	4.01				
20.0	4.02	4.05	4.07	4.11	4.15	4.21			
25.0	4.19	4.22	4.25	4.28	4.32	4.38	4.45	4.48	
30.0	4.41	4.44	4.47	4.50	4.54	4.58	4.64	4.67	4.72
35.0	4.67	4.71	4.74	4.77	4.80	4.84	4.89	4.91	4.96
40.0		5.04	5.07	5.10	5.13	5.16	5.20	5.22	5.25
45.0			5.48	5.50	5.53	5.55	5.58	5.60	5.62
50.0			5.96	5.99	6.01	6.03	6.05	6.06	6.08
55.0				6.56	6.58	6.59	6.61	6.61	6.63
60.0					7.26	7.26	7.27	7.27	7.28

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	22.40	27.90	34.80	43.30					
5.0	22.30	27.90	34.80	43.20					
10.0	22.10	27.60	34.50	42.80	52.90				
15.0	21.80	27.40	34.20	42.50	52.40				
20.0	21.60	27.20	33.90	42.10	51.90	63.70			
25.0	21.40	27.00	33.70	41.80	51.50	63.10	76.90	83.10	
30.0	21.20	26.70	33.40	41.40	51.10	62.50	76.20	82.30	92.40
35.0	21.00	26.50	33.20	41.10	50.60	62.00	75.50	81.60	91.60
40.0		26.30	32.90	40.80	50.20	61.50	74.90	80.90	90.80
45.0			32.70	40.50	49.80	60.90	74.20	80.20	90.10
50.0			32.40	40.20	49.40	60.40	73.60	79.60	89.50
55.0				39.90	49.00	60.00	73.10	79.10	88.90
60.0					48.70	59.60	72.70	78.70	88.50

### 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	1397
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