



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	4.40	5.50	6.82	8.39					
5.0	4.39	5.48	6.80	8.36					
10.0	4.25	5.31	6.58	8.09	9.85				
15.0	4.07	5.10	6.33	7.78	9.48				
20.0	3.87	4.86	6.05	7.44	9.07	10.95			
25.0	3.65	4.61	5.74	7.08	8.63	10.45	12.50	13.40	
30.0	3.41	4.33	5.42	6.70	8.18	9.90	11.85	12.75	14.10
35.0	3.17	4.05	5.09	6.30	7.71	9.34	11.20	12.05	13.35
40.0		3.77	4.76	5.91	7.24	8.78	10.55	11.35	12.60
45.0			4.43	5.51	6.77	8.22	9.90	10.65	11.80
50.0			4.10	5.12	6.30	7.67	9.24	9.93	11.05
55.0				4.74	5.85	7.12	8.59	9.23	10.25
60.0					5.41	6.59	7.95	8.56	9.52

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	1.02	1.04	1.08	1.13					
5.0	1.02	1.06	1.10	1.14					
10.0	1.14	1.16	1.20	1.24	1.29				
15.0	1.28	1.30	1.33	1.37	1.41				
20.0	1.44	1.46	1.49	1.52	1.56	1.60			
25.0	1.64	1.66	1.68	1.70	1.74	1.78	1.82	1.83	
30.0	1.86	1.87	1.89	1.91	1.94	1.97	2.01	2.02	2.04
35.0	2.10	2.11	2.13	2.15	2.17	2.19	2.22	2.23	2.25
40.0		2.38	2.39	2.41	2.42	2.44	2.46	2.47	2.48
45.0			2.68	2.69	2.70	2.71	2.73	2.73	2.74
50.0			2.99	3.00	3.01	3.01	3.02	3.02	3.03
55.0				3.33	3.33	3.34	3.34	3.34	3.33
60.0					3.69	3.68	3.68	3.67	3.67

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	3.22	3.24	3.27	3.31					
5.0	3.22	3.25	3.28	3.32					
10.0	3.31	3.33	3.37	3.41	3.45				
15.0	3.44	3.46	3.49	3.53	3.57				
20.0	3.60	3.62	3.65	3.69	3.73	3.77			
25.0	3.81	3.83	3.85	3.88	3.92	3.96	4.00	4.02	
30.0	4.05	4.07	4.09	4.12	4.15	4.18	4.22	4.24	4.26
35.0	4.34	4.35	4.37	4.39	4.42	4.45	4.48	4.49	4.51
40.0		4.67	4.69	4.71	4.73	4.75	4.78	4.79	4.80
45.0			5.05	5.06	5.08	5.09	5.11	5.12	5.13
50.0			5.45	5.46	5.47	5.48	5.49	5.49	5.50
55.0				5.90	5.90	5.90	5.91	5.91	5.91
60.0					6.38	6.37	6.37	6.36	6.36

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	19.60	24.50	30.60	37.80					
5.0	19.60	24.60	30.60	37.80					
10.0	19.60	24.60	30.60	37.80	46.40				
15.0	19.45	24.40	30.50	37.70	46.20				
20.0	19.15	24.20	30.20	37.40	45.90	55.90			
25.0	18.80	23.80	29.80	37.00	45.50	55.40	67.10	72.30	
30.0	18.30	23.40	29.40	36.50	44.90	54.90	66.50	71.70	80.10
35.0	17.80	22.80	28.80	35.90	44.30	54.20	65.80	71.00	79.40
40.0		22.30	28.30	35.30	43.70	53.50	65.10	70.30	78.70
45.0			27.70	34.70	43.00	52.80	64.40	69.60	78.00
50.0			27.20	34.20	42.40	52.20	63.70	68.90	77.40
55.0				33.70	41.90	51.70	63.20	68.40	77.00
60.0					41.70	51.40	63.00	68.30	76.90

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	9.94
Length/Width, mm	243/244
Height, mm	406
Net Weight, kg	28.4
Gross Weight, kg	31.4
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	60
Sound Power (MT), dBA	71
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	2.60
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	8.9
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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