



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	13.60	16.75	20.50						
5.0	13.55	16.65	20.50						
10.0	13.05	16.15	19.80	24.20					
15.0	12.50	15.55	19.15	23.40	28.30				
20.0	11.90	14.95	18.40	22.50	27.30	32.90			
25.0	11.25	14.25	17.65	21.60	26.20	31.60	37.80		
30.0		13.45	16.85	20.70	25.10	30.20	36.10	38.80	43.00
35.0		12.60	15.90	19.65	23.90	28.80	34.50	37.00	41.00
40.0			14.90	18.55	22.70	27.30	32.70	35.10	38.90
45.0			13.75	17.30	21.30	25.80	30.90	33.20	36.80
50.0				15.95	19.85	24.20	29.00	31.20	34.60
55.0					18.25	22.40	27.10	29.10	32.40
60.0					16.45	20.50	24.90	26.90	30.00

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	2.51	2.55	2.62						
5.0	2.55	2.59	2.66						
10.0	2.96	2.98	3.04	3.13					
15.0	3.42	3.43	3.47	3.54	3.66				
20.0	3.93	3.93	3.96	4.02	4.12	4.26			
25.0	4.49	4.49	4.52	4.57	4.65	4.78	4.95		
30.0		5.12	5.14	5.18	5.25	5.36	5.52	5.60	5.73
35.0		5.80	5.82	5.86	5.93	6.03	6.17	6.25	6.37
40.0			6.58	6.62	6.69	6.78	6.91	6.98	7.09
45.0			7.42	7.46	7.52	7.61	7.74	7.80	7.91
50.0				8.38	8.45	8.54	8.66	8.72	8.82
55.0					9.46	9.55	9.67	9.73	9.83
60.0					10.55	10.65	10.80	10.85	10.95

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	9.70	9.72	9.76						
5.0	9.72	9.74	9.79						
10.0	9.98	9.99	10.03	10.09					
15.0	10.29	10.30	10.33	10.38	10.47				
20.0	10.69	10.69	10.71	10.76	10.84	10.97			
25.0	11.17	11.17	11.19	11.24	11.31	11.43	11.60		
30.0		11.76	11.78	11.82	11.89	12.00	12.16	12.24	12.38
35.0		12.46	12.48	12.53	12.60	12.71	12.86	12.94	13.08
40.0			13.33	13.37	13.45	13.56	13.71	13.79	13.92
45.0			14.31	14.37	14.45	14.56	14.72	14.79	14.92
50.0				15.53	15.62	15.73	15.89	15.97	16.10
55.0					16.97	17.09	17.26	17.34	17.47
60.0					18.51	18.65	18.82	18.91	19.04

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	60.50	74.70	92.10						
5.0	60.40	74.70	92.10						
10.0	60.20	74.70	92.10	113.00					
15.0	59.80	74.60	92.20	113.00	138.50				
20.0	59.00	74.30	92.10	113.00	138.00	168.00			
25.0	57.90	73.70	91.80	113.00	138.00	167.50	203.00		
30.0		72.60	91.20	112.50	138.00	167.50	203.00	218.00	244.00
35.0		70.90	90.20	112.00	137.50	167.00	202.00	218.00	244.00
40.0			88.50	111.00	136.50	166.50	202.00	218.00	243.00
45.0			86.00	109.00	135.50	165.50	201.00	217.00	243.00
50.0				106.50	133.50	164.50	200.00	216.00	243.00
55.0					131.00	162.50	199.50	216.00	242.00
60.0					127.00	160.00	197.50	215.00	242.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	28.8
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	61.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	II
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High 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	20.4
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04