



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

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	11.75	14.25	17.30	21.00				
15.0	11.35	13.90	16.90	20.50	24.80			
20.0	10.85	13.40	16.40	20.00	24.20	29.20		
25.0	10.25	12.80	15.80	19.35	23.50	28.30	33.90	
30.0	9.59	12.10	15.05	18.55	22.60	27.40	32.80	35.20
35.0	8.81	11.30	14.25	17.65	21.60	26.30	31.60	33.90
40.0		10.40	13.30	16.60	20.50	25.00	30.20	32.50
45.0			12.25	15.50	19.25	23.60	28.70	30.90
50.0			11.10	14.25	17.90	22.20	27.10	29.20
55.0				12.90	16.45	20.50	25.30	27.40
60.0					14.85	18.80	23.40	25.40

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	3.02	3.09	3.18	3.30				
15.0	3.45	3.51	3.58	3.66	3.79			
20.0	3.90	3.96	4.01	4.07	4.16	4.29		
25.0	4.38	4.43	4.48	4.53	4.59	4.68	4.82	
30.0	4.89	4.96	5.01	5.05	5.09	5.16	5.26	5.31
35.0	5.45	5.54	5.60	5.64	5.67	5.72	5.78	5.82
40.0		6.19	6.27	6.31	6.34	6.37	6.42	6.44
45.0			7.02	7.08	7.11	7.14	7.17	7.18
50.0			7.86	7.94	7.99	8.02	8.04	8.05
55.0				8.92	8.99	9.03	9.05	9.06
60.0					10.10	10.20	10.20	10.20

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	9.63	9.69	9.76	9.87				
15.0	9.94	9.99	10.04	10.12	10.24			
20.0	10.30	10.34	10.39	10.45	10.53	10.66		
25.0	10.71	10.77	10.81	10.85	10.91	11.01	11.15	
30.0	11.20	11.28	11.32	11.36	11.41	11.48	11.58	11.64
35.0	11.79	11.89	11.95	12.00	12.03	12.08	12.16	12.20
40.0		12.64	12.72	12.77	12.81	12.84	12.90	12.93
45.0			13.63	13.70	13.75	13.78	13.82	13.84
50.0			14.72	14.82	14.87	14.91	14.94	14.96
55.0				16.13	16.21	16.25	16.29	16.30
60.0					17.76	17.83	17.87	17.88

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	59.30	70.90	84.80	101.00				
15.0	59.50	71.60	86.00	103.00	122.50			
20.0	59.20	71.90	86.80	104.00	124.50	147.50		
25.0	58.40	71.60	87.00	105.00	125.50	149.00	176.00	
30.0	57.10	70.80	86.70	105.00	126.00	150.00	177.50	189.50
35.0	55.00	69.40	85.80	104.50	126.00	150.50	178.50	191.00
40.0		67.30	84.20	103.50	125.50	150.50	179.00	191.50
45.0			81.90	102.00	124.50	150.00	179.00	192.00
50.0			78.80	99.20	122.50	148.50	178.50	191.50
55.0				95.90	119.50	146.50	177.00	190.50
60.0					116.00	143.50	175.00	189.00

### 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	1774
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