



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return    — 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	12.90	15.80	19.25	23.20	27.90	33.20
5.0	12.90	15.80	19.25	23.20	27.80	33.10
10.0	12.80	15.65	19.05	23.00	27.50	32.70
15.0	12.65	15.50	18.80	22.70	27.10	32.20
20.0	12.45	15.25	18.55	22.30	26.70	31.70
25.0	12.25	15.00	18.25	21.90	26.20	31.10
30.0	12.00	14.75	17.90	21.50	25.70	30.40
35.0	11.75	14.40	17.50	21.00	25.10	29.70
40.0	11.45	14.05	17.05	20.50	24.40	28.90
45.0		13.70	16.60	19.90	23.70	28.00
50.0		13.30	16.05	19.25	22.90	27.10
54.4			15.60	18.70	22.20	26.30

Cond °C	Power, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	4.62	4.97	5.26	5.51	5.74	5.96
5.0	4.66	5.01	5.31	5.57	5.80	6.02
10.0	5.05	5.44	5.77	6.07	6.33	6.59
15.0	5.48	5.90	6.27	6.61	6.92	7.21
20.0	5.95	6.42	6.83	7.20	7.55	7.89
25.0	6.49	6.99	7.44	7.86	8.24	8.62
30.0	7.09	7.63	8.12	8.58	9.01	9.43
35.0	7.77	8.35	8.88	9.37	9.84	10.30
40.0	8.52	9.14	9.71	10.25	10.75	11.25
45.0		10.00	10.65	11.20	11.75	12.30
50.0		11.00	11.65	12.25	12.85	13.45
54.4			12.60	13.25	13.90	14.55

Cond °C	Current at 400 V, A					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	11.19	11.55	11.86	12.13	12.39	12.64
5.0	11.22	11.59	11.91	12.19	12.46	12.72
10.0	11.60	12.04	12.43	12.78	13.11	13.44
15.0	12.06	12.57	13.03	13.45	13.85	14.25
20.0	12.62	13.21	13.74	14.23	14.69	15.16
25.0	13.29	13.95	14.55	15.11	15.64	16.17
30.0	14.07	14.80	15.47	16.10	16.70	17.30
35.0	14.98	15.78	16.52	17.22	17.89	18.55
40.0	16.02	16.89	17.70	18.47	19.20	19.93
45.0		18.15	19.02	19.86	20.66	21.45
50.0		19.55	20.49	21.39	22.26	23.12
54.4			21.92	22.88	23.80	24.72

Cond °C	Suction Mass Flow, g/s					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	58.80	74.10	92.60	115.00	141.50	173.00
5.0	58.80	74.10	92.60	115.00	141.50	173.00
10.0	58.70	74.20	92.70	115.00	141.50	173.50
15.0	58.50	74.00	92.60	115.00	141.50	173.00
20.0	58.20	73.70	92.30	114.50	141.00	172.50
25.0	57.80	73.20	91.70	114.00	140.50	171.50
30.0	57.30	72.60	90.90	113.00	139.50	170.50
35.0	56.60	71.80	89.90	112.00	138.00	169.00
40.0	55.80	70.80	88.80	110.50	136.00	167.00
45.0		69.60	87.30	108.50	134.00	164.50
50.0		68.30	85.70	106.50	132.00	162.00
54.4			84.10	105.00	129.50	159.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	42.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
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 (LT), dBA	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	73
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	30
Locked Rotor Current, A	139
Winding Resistance, ohm	1.09
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18