



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ 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
5.0	10.70	13.85	17.65	22.30	27.90	34.40
10.0	10.25	13.25	16.90	21.40	26.70	32.90
15.0	9.82	12.65	16.15	20.40	25.50	31.40
20.0	9.40	12.10	15.45	19.45	24.30	30.00
25.0	8.98	11.55	14.75	18.55	23.10	28.50
30.0	8.57	11.05	14.05	17.65	22.00	27.10
35.0	8.17	10.50	13.35	16.75	20.80	25.70
40.0	7.77	9.98	12.65	15.85	19.70	24.30
45.0	7.36	9.45	11.95	14.95	18.55	22.80
50.0	6.95	8.92	11.25	14.10	17.45	21.40
55.0	6.52	8.37	10.55	13.20	16.30	20.00

Cond °C	Power, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
5.0	4.20	4.58	4.96	5.30	5.59	5.80
10.0	4.50	4.94	5.40	5.84	6.25	6.59
15.0	4.82	5.31	5.83	6.36	6.87	7.34
20.0	5.19	5.71	6.28	6.88	7.47	8.05
25.0	5.62	6.16	6.77	7.41	8.08	8.74
30.0	6.13	6.67	7.30	7.98	8.70	9.44
35.0	6.74	7.27	7.89	8.60	9.36	10.15
40.0	7.46	7.96	8.57	9.29	10.05	10.90
45.0	8.32	8.77	9.35	10.05	10.85	11.70
50.0	9.32	9.71	10.25	10.95	11.75	12.60
55.0	10.50	10.80	11.30	11.95	12.70	13.60

Cond °C	Current at 400 V, A					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
5.0	15.75	16.01	16.24	16.42	16.57	16.67
10.0	15.96	16.23	16.50	16.76	17.00	17.23
15.0	16.15	16.44	16.75	17.08	17.42	17.77
20.0	16.35	16.65	17.00	17.40	17.84	18.32
25.0	16.59	16.91	17.30	17.77	18.31	18.91
30.0	16.91	17.24	17.68	18.21	18.84	19.57
35.0	17.33	17.67	18.15	18.75	19.48	20.33
40.0	17.88	18.24	18.75	19.42	20.25	21.22
45.0	18.60	18.97	19.52	20.26	21.17	22.26
50.0	19.51	19.89	20.48	21.28	22.29	23.50
55.0	20.64	21.03	21.66	22.53	23.63	24.96

Cond °C	Suction Mass Flow, g/s					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
5.0	47.80	61.80	79.10	100.50	126.00	156.00
10.0	47.30	61.10	78.30	99.20	124.50	154.50
15.0	46.80	60.50	77.50	98.10	123.00	152.50
20.0	46.50	60.00	76.80	97.20	121.50	151.00
25.0	46.20	59.60	76.10	96.30	120.50	149.50
30.0	45.90	59.20	75.60	95.40	119.50	148.00
35.0	45.70	58.90	75.10	94.70	118.50	146.50
40.0	45.50	58.70	74.70	94.00	117.50	145.50
45.0	45.40	58.50	74.30	93.40	116.50	144.50
50.0	45.30	58.40	74.00	93.00	116.00	143.50
55.0	45.30	58.30	73.90	92.60	115.00	142.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	48.3
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	77
Sound Power (LT), dBA	88
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
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
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	31
Locked Rotor Current, A	168
Winding Resistance, ohm	0.78
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	93 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