



Minimum Evaporating Temp. With:

- 25 °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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	10.20	12.60	15.45	18.70					
15.0	9.72	12.00	14.65	17.75	21.30				
20.0	9.20	11.35	13.85	16.75	20.10	24.00			
25.0	8.68	10.70	13.05	15.75	18.90	22.50	26.70		
30.0	8.15	10.05	12.20	14.75	17.70	21.10	24.90	26.60	29.30
35.0	7.60	9.35	11.40	13.75	16.45	19.60	23.20	24.70	27.30
40.0	7.03	8.66	10.55	12.70	15.20	18.10	21.40	22.90	25.20
45.0	6.45	7.95	9.68	11.65	13.95	16.60	19.65	21.00	23.10
50.0		7.23	8.80	10.60	12.70	15.10	17.85	19.05	21.00
55.0		6.49	7.90	9.52	11.40	13.55	16.05	17.15	18.90
60.0			6.98	8.42	10.10	12.00	14.20	15.20	16.80

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.69	2.73	2.79	2.89					
15.0	3.06	3.09	3.13	3.21	3.32				
20.0	3.46	3.49	3.52	3.58	3.67	3.80			
25.0	3.90	3.93	3.96	4.00	4.07	4.18	4.33		
30.0	4.37	4.41	4.45	4.48	4.53	4.61	4.73	4.80	4.91
35.0	4.88	4.94	4.98	5.01	5.05	5.11	5.20	5.25	5.34
40.0	5.42	5.50	5.55	5.59	5.62	5.67	5.74	5.77	5.85
45.0	6.00	6.11	6.17	6.22	6.25	6.28	6.34	6.36	6.42
50.0		6.74	6.83	6.89	6.93	6.96	7.00	7.02	7.06
55.0		7.42	7.54	7.61	7.66	7.69	7.73	7.74	7.77
60.0			8.28	8.38	8.45	8.49	8.52	8.53	8.55

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
10.0	9.39	9.45	9.53	9.65					
15.0	9.59	9.64	9.72	9.82	9.96				
20.0	9.84	9.90	9.97	10.06	10.18	10.32			
25.0	10.16	10.22	10.29	10.38	10.49	10.61	10.75		
30.0	10.56	10.63	10.70	10.78	10.88	10.99	11.11	11.16	11.24
35.0	11.05	11.12	11.20	11.28	11.37	11.47	11.57	11.61	11.68
40.0	11.63	11.72	11.80	11.89	11.98	12.06	12.15	12.18	12.24
45.0	12.32	12.43	12.52	12.61	12.70	12.78	12.85	12.88	12.92
50.0		13.25	13.36	13.46	13.55	13.62	13.69	13.72	13.75
55.0		14.21	14.33	14.44	14.54	14.61	14.68	14.70	14.72
60.0			15.45	15.57	15.67	15.75	15.81	15.83	15.85

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
10.0	58.00	71.90	88.50	108.00					
15.0	57.50	71.20	87.60	107.00	129.50				
20.0	56.90	70.50	86.70	105.50	128.00	154.50			
25.0	56.30	69.80	85.70	104.50	126.50	152.50	183.00		
30.0	55.70	68.90	84.60	103.00	125.00	150.50	180.50	194.00	216.00
35.0	54.90	68.00	83.40	101.50	123.00	148.50	178.00	191.50	214.00
40.0	54.00	67.00	82.10	100.00	121.00	146.00	176.00	189.00	211.00
45.0	53.00	65.80	80.80	98.40	119.00	144.00	173.50	186.50	208.00
50.0		64.60	79.30	96.70	117.00	141.50	171.00	184.00	206.00
55.0		63.30	77.90	95.00	115.50	139.50	169.00	182.50	204.00
60.0			76.60	93.60	114.00	138.50	168.00	181.50	204.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	20.9
Length/Width, mm	316/357
Height, mm	525
Net Weight, kg	87
Gross Weight, kg	93
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	4.14
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	220 x 220 (22.4)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Power with Sound Shell (MT), dBA	68
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	19.8
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	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	15.4
Locked Rotor Current, A	99
Winding Resistance, ohm	1.41
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	49 W External
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)

**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>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04