



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			23.80	31.20	40.20	51.00	63.70			
10.0			22.60	29.60	38.10	48.30	60.40	74.40	90.50	109.00
15.0			21.20	27.90	36.00	45.70	57.00	70.30	85.50	103.00
20.0			19.90	26.20	33.80	42.90	53.60	66.10	80.40	96.80
25.0			18.50	24.40	31.60	40.10	50.20	61.80	75.30	90.60
30.0			17.05	22.60	29.30	37.30	46.60	57.50	70.00	84.40
35.0			15.55	20.80	27.00	34.40	43.10	53.10	64.80	78.10
40.0				18.90	24.70	31.50	39.50	48.70	59.50	71.80
45.0					22.30	28.50	35.80	44.30	54.10	65.40
50.0					19.90	25.50	32.10	39.80	48.70	59.00
55.0						22.50	28.40	35.30	43.30	52.50

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			8.92	9.88	10.70	11.40	11.90			
10.0			9.49	10.60	11.60	12.45	13.10	13.60	13.80	13.80
15.0			10.00	11.25	12.40	13.45	14.30	15.00	15.45	15.65
20.0			10.45	11.85	13.20	14.45	15.50	16.40	17.10	17.55
25.0			10.80	12.40	13.95	15.35	16.65	17.80	18.70	19.45
30.0			11.10	12.85	14.60	16.25	17.75	19.10	20.30	21.30
35.0			11.25	13.25	15.20	17.05	18.80	20.40	21.90	23.10
40.0				13.55	15.70	17.80	19.80	21.70	23.40	24.90
45.0					16.10	18.45	20.70	22.80	24.90	26.70
50.0					16.40	19.00	21.50	24.00	26.30	28.40
55.0						19.45	22.30	25.00	27.60	30.10

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			20.96	22.01	22.96	23.74	24.28			
10.0			21.53	22.76	23.92	24.93	25.75	26.30	26.51	26.34
15.0			22.08	23.50	24.87	26.15	27.25	28.12	28.69	28.89
20.0			22.57	24.20	25.81	27.36	28.77	29.97	30.91	31.52
25.0			22.99	24.84	26.72	28.55	30.28	31.84	33.17	34.19
30.0			23.32	25.42	27.57	29.71	31.78	33.71	35.44	36.90
35.0			23.55	25.90	28.35	30.81	33.24	35.55	37.70	39.62
40.0				26.28	29.03	31.84	34.63	37.36	39.94	42.32
45.0					29.60	32.77	35.95	39.10	42.14	45.00
50.0					30.04	33.58	37.18	40.76	44.27	47.64
55.0						34.26	38.28	42.32	46.32	50.21

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			128.50	168.50	218.00	278.00	349.00			
10.0			126.50	166.50	215.00	274.00	344.00	427.00	523.00	634.00
15.0			124.50	163.50	212.00	270.00	339.00	421.00	515.00	626.00
20.0			121.50	160.50	208.00	266.00	334.00	414.00	507.00	616.00
25.0			118.50	157.00	204.00	260.00	327.00	406.00	499.00	606.00
30.0			115.00	153.00	199.50	255.00	321.00	398.00	489.00	595.00
35.0			111.00	148.50	194.00	249.00	313.00	389.00	479.00	584.00
40.0				143.50	188.50	242.00	305.00	380.00	468.00	572.00
45.0					182.00	234.00	296.00	370.00	456.00	559.00
50.0					175.00	226.00	287.00	359.00	444.00	545.00
55.0						218.00	277.00	348.00	432.00	532.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	106
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	740/580
Height, mm	490
Net Weight, kg	242
Gross Weight, kg	258
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	80
Sound Power (LT), dBA	91
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	53.7
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

### **ACCESSORIES OPTIONAL**

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 66%
Crankcase Heater	100 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3

### **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>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00