



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°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			13.00	16.95	21.80	27.60	34.30			
10.0			12.20	16.00	20.60	26.10	32.50	40.00	48.50	58.20
15.0			11.40	15.00	19.40	24.60	30.70	37.80	45.90	55.10
20.0			10.55	14.00	18.15	23.00	28.80	35.50	43.20	51.90
25.0			9.69	12.95	16.85	21.50	26.90	33.20	40.40	48.70
30.0			8.81	11.85	15.50	19.85	24.90	30.80	37.60	45.40
35.0			7.92	10.75	14.15	18.20	22.90	28.50	34.80	42.10
40.0				9.67	12.80	16.55	20.90	26.10	32.00	38.70
45.0					11.45	14.90	18.90	23.60	29.10	35.40
50.0					10.10	13.20	16.90	21.20	26.20	31.90
55.0						11.55	14.85	18.75	23.30	28.50

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			4.69	5.17	5.56	5.84	5.97			
10.0			4.94	5.51	6.00	6.39	6.65	6.74	6.63	6.30
15.0			5.16	5.82	6.42	6.93	7.31	7.54	7.58	7.41
20.0			5.33	6.09	6.80	7.43	7.94	8.31	8.51	8.50
25.0			5.47	6.33	7.15	7.90	8.55	9.06	9.41	9.57
30.0			5.56	6.52	7.46	8.34	9.12	9.79	10.30	10.60
35.0			5.59	6.67	7.73	8.74	9.66	10.50	11.15	11.65
40.0				6.77	7.95	9.09	10.15	11.15	11.95	12.65
45.0					8.12	9.40	10.60	11.75	12.75	13.60
50.0					8.25	9.66	11.05	12.30	13.50	14.55
55.0						9.88	11.40	12.85	14.20	15.45

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			10.01	10.59	11.08	11.43	11.59			
10.0			10.30	10.99	11.62	12.13	12.46	12.57	12.38	11.86
15.0			10.55	11.37	12.14	12.81	13.33	13.64	13.68	13.40
20.0			10.76	11.71	12.64	13.48	14.19	14.71	14.98	14.95
25.0			10.94	12.02	13.10	14.12	15.03	15.77	16.28	16.50
30.0			11.05	12.28	13.52	14.73	15.84	16.80	17.55	18.04
35.0			11.11	12.48	13.89	15.29	16.61	17.80	18.80	19.56
40.0				12.62	14.21	15.80	17.33	18.76	20.02	21.05
45.0					14.46	16.25	18.01	19.67	21.19	22.51
50.0					14.64	16.64	18.62	20.53	22.32	23.93
55.0						16.95	19.16	21.33	23.39	25.29

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			69.50	91.10	117.50	149.00	186.50			
10.0			67.90	89.40	115.50	147.00	184.00	227.00	278.00	336.00
15.0			66.10	87.40	113.00	144.00	181.00	224.00	274.00	332.00
20.0			63.90	85.00	110.50	141.50	177.50	220.00	270.00	327.00
25.0			61.50	82.40	107.50	138.00	174.00	216.00	265.00	322.00
30.0			58.80	79.50	104.50	134.00	169.50	211.00	260.00	317.00
35.0			55.80	76.20	101.00	130.00	165.00	206.00	254.00	311.00
40.0				72.70	96.80	125.50	160.00	201.00	249.00	305.00
45.0					92.50	121.00	154.50	195.00	242.00	298.00
50.0					87.80	115.50	149.00	188.50	235.00	291.00
55.0						110.00	143.00	182.00	229.00	284.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	56.0
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	680/535
Height, mm	605
Net Weight, kg	179
Gross Weight, kg	195
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
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	76
Sound Power (LT), dBA	87
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	26.8
Locked Rotor Current, A	105
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Capacity Control	Capacity Steps 50%
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Enclosure Class	IP 56
Check Valve	For unloaded start operation

**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