



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 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
20.0		3.99	5.32	6.92	8.81	11.05	13.60	16.55	19.90
25.0		3.59	4.85	6.36	8.14	10.25	12.65	15.45	18.60
30.0			4.39	5.81	7.48	9.44	11.70	14.30	17.30
35.0			3.94	5.26	6.82	8.65	10.75	13.20	16.00
40.0			3.50	4.73	6.17	7.86	9.83	12.10	14.70
45.0				4.20	5.53	7.08	8.89	11.00	13.40
50.0				3.67	4.89	6.31	7.96	9.88	12.10
55.0					4.25	5.54	7.04	8.78	10.80

50 Hz

2SA-45

R404A Dew Point

Cond °C	Power, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
20.0		2.44	2.81	3.16	3.45	3.69	3.87	3.95	3.95
25.0		2.45	2.87	3.26	3.62	3.93	4.19	4.37	4.46
30.0			2.90	3.34	3.76	4.14	4.48	4.74	4.93
35.0			2.91	3.40	3.88	4.32	4.73	5.08	5.37
40.0			2.90	3.44	3.97	4.48	4.96	5.39	5.76
45.0				3.46	4.04	4.61	5.15	5.66	6.12
50.0				3.46	4.08	4.71	5.32	5.90	6.45
55.0					4.11	4.79	5.46	6.11	6.74

Cond °C	Current at 400 V, A								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
20.0		5.35	5.73	6.13	6.53	6.90	7.21	7.43	7.54
25.0		5.40	5.82	6.28	6.74	7.19	7.58	7.91	8.13
30.0			5.90	6.41	6.94	7.46	7.95	8.37	8.70
35.0			5.95	6.52	7.12	7.72	8.29	8.82	9.26
40.0			5.97	6.60	7.27	7.95	8.61	9.24	9.79
45.0				6.64	7.38	8.14	8.90	9.62	10.29
50.0				6.65	7.45	8.29	9.14	9.97	10.75
55.0					7.48	8.40	9.35	10.28	11.17

Cond °C	Suction Mass Flow, g/s								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
20.0		24.40	32.60	42.60	54.50	68.60	85.20	104.50	126.50
25.0		23.00	31.20	41.10	52.80	66.80	83.20	102.00	124.50
30.0			29.70	39.50	51.10	64.90	81.10	100.00	122.00
35.0			28.20	37.80	49.30	62.90	78.90	97.60	119.50
40.0			26.60	36.10	47.40	60.80	76.60	95.20	117.00
45.0				34.30	45.40	58.60	74.30	92.70	114.50
50.0				32.30	43.30	56.40	71.80	90.10	111.50
55.0					41.10	54.00	69.40	87.60	109.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	22.4
Bore/Stroke, mm	61.9/42.8
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	90
Gross Weight, kg	95
Suction, inch	1 1/8
Discharge, inch	7/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2.4
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	295 x 279 (14)
Sound Pressure @ 1m (MT), dBA	61
Sound Power (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	59
Sound Power (HT), dBA	70
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °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	11.4
Locked Rotor Current, A	68.5
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
Crankcase Heater	70 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
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>
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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
EWN	250-280 V / 3~ / 60 Hz	265	Y/DELTA	DELTA	1.73
EWN	440-480 V / 3~ / 60 Hz	460		Y	1.00
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00