



Minimum Evaporating Temp. With:

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

Suction Superheat 5.0K

Liquid Subcooling 4.0K

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	5.90	8.28	11.20	14.70	18.90	23.80	29.70	36.50	44.30
25.0	5.06	7.34	10.10	13.40	17.35	22.00	27.50	33.90	41.40
30.0	4.25	6.43	9.04	12.15	15.85	20.20	25.40	31.40	38.40
35.0	3.49	5.56	8.00	10.90	14.35	18.40	23.20	28.80	35.40
40.0	2.77	4.71	6.99	9.68	12.85	16.65	21.10	26.30	32.40
45.0	2.11	3.92	6.02	8.49	11.40	14.90	19.00	23.80	29.50
50.0		3.16	5.09	7.34	9.99	13.15	16.90	21.30	26.60
55.0		2.47	4.20	6.22	8.61	11.45	14.85	18.90	23.70

50 Hz

3SS-100

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	4.26	5.04	5.85	6.66	7.44	8.15	8.77	9.25	9.55
25.0	4.29	5.09	5.95	6.85	7.73	8.58	9.35	10.00	10.55
30.0	4.32	5.13	6.03	6.99	7.97	8.94	9.86	10.70	11.40
35.0	4.35	5.17	6.10	7.11	8.18	9.25	10.30	11.30	12.20
40.0	4.42	5.22	6.17	7.22	8.35	9.52	10.70	11.85	12.90
45.0	4.52	5.30	6.25	7.34	8.52	9.77	11.05	12.35	13.55
50.0		5.42	6.36	7.46	8.69	10.00	11.40	12.80	14.15
55.0		5.60	6.52	7.62	8.88	10.25	11.70	13.20	14.75

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	10.62	11.58	12.59	13.63	14.67	15.72	16.74	17.72	18.66
25.0	10.70	11.72	12.80	13.93	15.09	16.27	17.45	18.61	19.74
30.0	10.74	11.81	12.97	14.19	15.47	16.78	18.11	19.45	20.78
35.0	10.73	11.85	13.09	14.41	15.80	17.25	18.75	20.26	21.79
40.0	10.66	11.85	13.16	14.58	16.10	17.69	19.34	21.04	22.77
45.0	10.55	11.80	13.19	14.71	16.35	18.08	19.90	21.78	23.72
50.0		11.70	13.17	14.80	16.56	18.44	20.42	22.49	24.63
55.0		11.55	13.11	14.85	16.73	18.76	20.91	23.16	25.51

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	48.40	66.30	87.40	112.00	141.00	174.00	212.00	256.00	305.00
25.0	44.20	62.50	83.80	108.50	137.00	170.00	208.00	251.00	300.00
30.0	39.80	58.50	80.00	104.50	133.00	165.50	203.00	246.00	294.00
35.0	35.20	54.40	76.00	100.50	129.00	161.50	198.50	241.00	289.00
40.0	30.40	50.10	71.90	96.60	124.50	156.50	193.50	235.00	283.00
45.0	25.50	45.60	67.70	92.30	120.00	152.00	188.00	230.00	277.00
50.0		40.90	63.30	87.90	115.50	147.00	183.00	224.00	272.00
55.0		36.10	58.80	83.60	111.00	142.50	178.50	220.00	267.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m <sup>3</sup> /h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	177
Suction, inch	1 3/8
Discharge, inch	1 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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	64
Sound Power (LT), dBA	75
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	66
Sound Power (MT), dBA	77
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
Locked Rotor Current, A	109
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
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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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
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
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00