



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	8.24	10.90	14.15	18.10	22.80	28.30	30.80		
25.0	7.82	10.30	13.35	17.05	21.50	26.70	29.10	32.80	36.30
30.0	7.33	9.65	12.50	16.00	20.20	25.10	27.30	30.90	34.10
35.0	6.79	8.95	11.60	14.90	18.80	23.50	25.60	28.90	32.00
40.0	6.20	8.22	10.70	13.75	17.45	21.80	23.80	27.00	29.90
45.0	5.59	7.48	9.81	12.65	16.10	20.20	22.10	25.10	27.80
50.0	4.98	6.74	8.91	11.55	14.80	18.65	20.40	23.20	25.80
55.0	4.38	6.03	8.05	10.55	13.55	17.15	18.80	21.50	23.90
60.0	3.82	5.36	7.25	9.55	12.35	15.75	17.25	19.75	22.00
65.0	3.32	4.76	6.51	8.66	11.25	14.40	15.85	18.15	20.30

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	3.44	3.80	4.15	4.49	4.81	5.11	5.23		
25.0	3.56	3.95	4.34	4.72	5.09	5.44	5.57	5.77	5.92
30.0	3.66	4.08	4.51	4.94	5.36	5.76	5.92	6.15	6.34
35.0	3.73	4.20	4.68	5.15	5.62	6.08	6.26	6.53	6.75
40.0	3.79	4.30	4.82	5.35	5.87	6.40	6.60	6.91	7.16
45.0	3.82	4.38	4.95	5.53	6.12	6.70	6.94	7.29	7.57
50.0	3.82	4.43	5.06	5.70	6.35	7.00	7.26	7.66	7.98
55.0	3.80	4.46	5.15	5.85	6.57	7.29	7.58	8.02	8.38
60.0	3.75	4.47	5.22	5.99	6.77	7.57	7.89	8.38	8.78
65.0	3.67	4.45	5.26	6.10	6.96	7.83	8.19	8.72	9.17

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	8.58	8.95	9.31	9.67	10.01	10.34	10.47		
25.0	8.79	9.20	9.62	10.04	10.47	10.89	11.05	11.29	11.49
30.0	8.92	9.38	9.86	10.35	10.86	11.36	11.57	11.87	12.12
35.0	8.99	9.50	10.04	10.61	11.19	11.80	12.04	12.41	12.72
40.0	9.02	9.58	10.18	10.82	11.49	12.19	12.48	12.91	13.28
45.0	9.01	9.63	10.29	11.01	11.77	12.57	12.90	13.40	13.82
50.0	8.99	9.66	10.39	11.19	12.04	12.94	13.31	13.88	14.36
55.0	8.96	9.69	10.50	11.37	12.32	13.32	13.73	14.37	14.91
60.0	8.94	9.73	10.61	11.57	12.61	13.72	14.18	14.88	15.49
65.0	8.95	9.80	10.76	11.80	12.94	14.15	14.66	15.44	16.11

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	49.40	64.00	81.60	102.50	127.00	155.00	167.00		
25.0	49.10	63.30	80.40	100.50	124.50	152.00	164.50	183.50	201.00
30.0	48.20	62.00	78.80	98.60	122.00	149.00	161.00	180.00	197.00
35.0	46.80	60.40	76.70	96.20	119.00	145.50	157.50	176.50	193.00
40.0	45.10	58.40	74.40	93.50	116.00	142.00	153.50	172.50	189.00
45.0	43.10	56.20	71.90	90.70	113.00	138.50	150.00	168.50	185.00
50.0	40.80	53.80	69.30	87.80	109.50	135.00	146.00	164.50	180.50
55.0	38.40	51.30	66.70	84.90	106.50	131.50	143.00	160.50	177.00
60.0	36.00	49.00	64.30	82.40	103.50	128.50	139.50	157.50	173.50
65.0	33.90	47.10	62.40	80.40	101.50	126.50	137.50	155.00	171.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m <sup>3</sup> /h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	655/370
Height, mm	480
Net Weight, kg	159
Gross Weight, kg	174
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, dBA	65.6
Sound Power, dBA	76.6
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	18.7
Locked Rotor Current, A	82
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

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

**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
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