



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	66.90	84.60	106.00	131.50						
15.0	63.80	81.00	101.50	126.50	155.50					
20.0	60.60	77.20	97.10	120.50	148.50	181.00				
25.0	57.20	73.20	92.20	115.00	141.50	172.50	208.00	224.00	250.00	
30.0	53.70	69.00	87.10	108.50	134.00	163.00	197.50	212.00	237.00	258.00
35.0	50.10	64.70	81.90	102.00	126.00	153.50	186.00	200.00	223.00	244.00
40.0	46.40	60.30	76.50	95.50	118.00	144.00	174.50	187.50	209.00	229.00
45.0		55.80	71.00	88.70	109.50	134.00	162.50	175.00	195.00	213.00
50.0		51.20	65.30	81.80	101.00	123.50	150.00	161.50	180.50	197.50
55.0			59.60	74.70	92.40	113.00	137.50	148.00	165.50	181.50
60.0			53.90	67.60	83.60	102.50	124.50	134.50		
62.0				64.70	80.10	98.20	119.50			

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	17.55	18.50	19.05	19.00						
15.0	19.15	20.60	21.60	22.10	22.00					
20.0	20.70	22.50	24.00	25.10	25.60	25.50				
25.0	22.10	24.30	26.30	27.90	29.00	29.50	29.40	29.10	28.40	
30.0	23.40	26.00	28.30	30.50	32.20	33.40	33.90	33.90	33.70	33.30
35.0	24.70	27.50	30.30	32.90	35.10	36.90	38.20	38.50	38.80	38.80
40.0	25.80	28.90	32.10	35.10	37.90	40.30	42.20	42.80	43.50	43.90
45.0		30.20	33.70	37.10	40.40	43.40	46.00	46.90	48.00	48.80
50.0		31.30	35.10	39.00	42.70	46.30	49.40	50.60	52.20	53.30
55.0			36.40	40.60	44.80	48.90	52.60	54.10	56.00	57.60
60.0			37.50	42.00	46.70	51.20	55.60	57.20		
62.0				42.60	47.30	52.10	56.70			

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	49.18	50.18	50.73	50.65						
15.0	50.70	52.15	53.25	53.82	53.67					
20.0	52.23	54.11	55.76	56.99	57.60	57.41				
25.0	53.74	56.06	58.25	60.13	61.50	62.16	61.94	61.55	60.63	
30.0	55.20	57.94	60.67	63.19	65.31	66.84	67.59	67.62	67.35	66.81
35.0	56.56	59.73	62.99	66.15	69.02	71.41	73.12	73.57	73.96	73.99
40.0	57.81	61.40	65.18	68.98	72.59	75.83	78.50	79.37	80.41	81.02
45.0		62.91	67.22	71.64	75.99	80.08	83.70	84.98	86.67	87.85
50.0		64.23	69.06	74.11	79.19	84.12	88.69	90.38	92.72	94.46
55.0			70.67	76.34	82.15	87.91	93.43	95.52	98.51	100.82
60.0			72.03	78.31	84.84	91.43	97.89	100.39		
62.0				79.02	85.84	92.76	99.59			

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	314.00	398.00	502.00	626.00						
15.0	310.00	395.00	498.00	623.00	771.00					
20.0	305.00	390.00	493.00	617.00	765.00	941.00				
25.0	300.00	385.00	487.00	610.00	757.00	931.00	1137.00	1229.00	1379.00	
30.0	293.00	378.00	480.00	602.00	747.00	920.00	1124.00	1216.00	1365.00	1501.00
35.0	286.00	371.00	472.00	592.00	736.00	907.00	1109.00	1200.00	1348.00	1484.00
40.0	277.00	362.00	462.00	581.00	723.00	892.00	1092.00	1182.00	1329.00	1464.00
45.0		353.00	452.00	569.00	708.00	874.00	1072.00	1162.00	1308.00	1442.00
50.0		343.00	440.00	555.00	692.00	855.00	1051.00	1139.00	1284.00	1418.00
55.0			427.00	540.00	674.00	834.00	1027.00	1115.00	1259.00	1392.00
60.0			414.00	523.00	655.00	812.00	1002.00	1089.00		
62.0				517.00	647.00	803.00	992.00			

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, m³/h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	331
Gross Weight, kg	352
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
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	457 x 305 (18)
Sound Pressure @ 1m (MT), dBA	77
Sound Power (MT), dBA	88
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	78
Sound Power (HT), dBA	89
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	108
Locked Rotor Current, A	476
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Deep Oil Sump	Mounted
Mounting Springs	4

**ACCESSORIES OPTIONAL**

Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Unloaded start	Available

**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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00