



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return with add cooling
- 20 °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										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	41.60	53.80	68.30	85.70	106.00	129.50	157.00	188.50			
15.0	38.70	50.60	64.60	81.20	100.50	123.00	149.00	179.00	213.00		
20.0	35.80	47.30	60.80	76.60	95.00	116.50	141.00	169.00	201.00	237.00	253.00
25.0	32.70	43.80	56.80	71.80	89.30	109.50	132.50	159.00	189.00	223.00	238.00
30.0	29.40	40.30	52.70	66.90	83.40	102.50	124.00	149.00	177.50	209.00	223.00
35.0	26.10	36.60	48.40	61.90	77.40	95.20	115.50	139.00	165.50	195.50	208.00
40.0		32.70	44.00	56.80	71.30	87.90	107.00	128.50	153.00	181.00	193.50
45.0		28.80	39.50	51.50	65.00	80.40	98.00	118.00	141.00	166.50	178.00
50.0		24.70	34.90	46.10	58.60	72.80	89.00	107.50	128.50	152.00	162.50
55.0			30.10	40.50	52.10	65.10	79.80	96.60	116.00	137.50	147.00
60.0			25.20	34.80	45.40	57.20	70.50	85.70	103.00		
62.0			23.20	32.50	42.70	54.00	66.80	81.30	97.80		

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	16.95	18.90	20.50	21.90	23.00	23.70	24.10	23.90			
15.0	17.65	19.85	21.80	23.50	25.00	26.00	26.70	27.00	26.80		
20.0	18.20	20.70	23.00	25.10	26.80	28.30	29.30	30.00	30.20	30.00	29.70
25.0	18.65	21.50	24.10	26.50	28.60	30.50	31.90	33.00	33.70	33.90	33.80
30.0	18.95	22.10	25.10	27.90	30.40	32.60	34.50	36.00	37.10	37.80	37.90
35.0	19.10	22.60	26.00	29.10	32.10	34.70	37.00	39.00	40.50	41.60	42.00
40.0		23.00	26.80	30.30	33.70	36.70	39.50	41.90	43.90	45.50	46.00
45.0		23.30	27.40	31.40	35.10	38.70	41.90	44.80	47.30	49.40	50.10
50.0		23.40	27.90	32.30	36.50	40.50	44.20	47.60	50.60	53.20	54.20
55.0			28.30	33.20	37.80	42.30	46.50	50.30	53.90	57.00	58.20
60.0			28.60	33.90	39.00	43.90	48.60	53.00	57.10		
62.0			28.60	34.10	39.40	44.60	49.50	54.10	58.40		

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	48.78	50.31	51.82	53.20	54.34	55.13	55.48	55.26			
15.0	49.32	51.17	53.02	54.79	56.34	57.59	58.41	58.71	58.37		
20.0	49.78	51.99	54.23	56.42	58.42	60.15	61.49	62.33	62.57	62.10	61.68
25.0	50.15	52.74	55.41	58.05	60.55	62.80	64.68	66.11	66.96	67.13	66.99
30.0	50.38	53.40	56.54	59.66	62.68	65.49	67.96	70.00	71.50	72.36	72.49
35.0	50.45	53.94	57.57	61.22	64.80	68.19	71.29	73.99	76.17	77.74	78.17
40.0		54.32	58.48	62.70	66.87	70.89	74.64	78.03	80.94	83.26	84.00
45.0		54.51	59.24	64.05	68.86	73.54	77.98	82.10	85.76	88.87	89.94
50.0		54.48	59.81	65.26	70.73	76.11	81.29	86.16	90.62	94.55	95.96
55.0			60.17	66.30	72.47	78.58	84.52	90.19	95.47	100.27	102.03
60.0			60.29	67.12	74.03	80.91	87.65	94.15	100.30		
62.0			60.27	67.39	74.60	81.80	88.87	95.71	102.22		

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	232.00	300.00	383.00	482.00	599.00	738.00	899.00	1088.00			
15.0	225.00	294.00	377.00	476.00	593.00	730.00	890.00	1077.00	1294.00		
20.0	217.00	287.00	371.00	469.00	585.00	721.00	880.00	1066.00	1281.00	1530.00	1641.00
25.0	207.00	279.00	363.00	462.00	577.00	712.00	869.00	1053.00	1267.00	1515.00	1625.00
30.0	196.50	270.00	354.00	453.00	567.00	701.00	858.00	1040.00	1252.00	1499.00	1609.00
35.0	184.00	259.00	344.00	443.00	557.00	690.00	845.00	1026.00	1236.00	1483.00	1593.00
40.0		246.00	333.00	431.00	545.00	677.00	831.00	1010.00	1220.00	1466.00	1576.00
45.0		231.00	319.00	418.00	532.00	663.00	816.00	994.00	1204.00	1450.00	1560.00
50.0		213.00	303.00	403.00	517.00	648.00	800.00	978.00	1188.00	1435.00	1546.00
55.0			285.00	387.00	501.00	632.00	784.00	963.00	1173.00	1423.00	1536.00
60.0			264.00	368.00	484.00	617.00	771.00	951.00	1165.00		
62.0			255.00	360.00	478.00	612.00	767.00	949.00	1165.00		

**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
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	79
Sound Power (MT), dBA	90
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	80
Sound Power (HT), dBA	91
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	3922
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
Mounting Springs	4
Deep Oil Sump	Mounted

**ACCESSORIES OPTIONAL**

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