



Minimum Evaporating Temp. With:

- █ 20 °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											
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.49	3.36	4.44	5.73	7.29	9.12	11.25					
15.0	2.27	3.12	4.15	5.40	6.89	8.66	10.70	13.10				
20.0	2.04	2.86	3.85	5.05	6.48	8.18	10.15	12.45	15.10	18.10		
25.0	1.80	2.59	3.54	4.69	6.06	7.68	9.58	11.80	14.30	17.20	18.50	20.50
30.0	1.56	2.31	3.23	4.33	5.63	7.18	8.99	11.10	13.50	16.30	17.50	19.45
35.0	1.30	2.03	2.91	3.95	5.19	6.66	8.38	10.40	12.70	15.35	16.55	18.40
40.0	1.06	1.75	2.58	3.57	4.74	6.14	7.77	9.68	11.90	14.40		
45.0	0.81	1.46	2.25	3.18	4.29	5.60	7.15	8.96				
50.0	0.56	1.18	1.92	2.79	3.83	5.06	6.52	8.23				
55.0	0.32	0.90	1.58	2.40	3.37	4.52	5.89					

50 Hz

LJ-30

R449A Dew Point

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
10.0	1.39	1.54	1.68	1.80	1.89	1.94	1.96					
15.0	1.41	1.60	1.76	1.92	2.04	2.14	2.21	2.23				
20.0	1.40	1.62	1.82	2.01	2.17	2.32	2.43	2.50	2.53	2.52		
25.0	1.38	1.62	1.86	2.08	2.28	2.47	2.63	2.75	2.84	2.89	2.89	2.88
30.0	1.34	1.60	1.87	2.13	2.37	2.60	2.81	2.99	3.13	3.24	3.27	3.30
35.0	1.28	1.58	1.87	2.16	2.45	2.72	2.97	3.20	3.40	3.57	3.63	3.69
40.0	1.21	1.53	1.85	2.18	2.50	2.82	3.12	3.40	3.66	3.89		
45.0	1.12	1.47	1.82	2.19	2.55	2.91	3.26	3.59				
50.0	1.03	1.40	1.78	2.18	2.58	2.99	3.38	3.77				
55.0	0.93	1.32	1.74	2.17	2.61	3.05	3.50					

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
10.0	4.26	4.41	4.54	4.66	4.75	4.80	4.81					
15.0	4.29	4.45	4.61	4.76	4.89	4.99	5.05	5.07				
20.0	4.30	4.48	4.66	4.85	5.02	5.17	5.29	5.36	5.39	5.35		
25.0	4.29	4.48	4.69	4.91	5.12	5.32	5.50	5.64	5.74	5.79	5.79	5.77
30.0	4.25	4.47	4.71	4.96	5.21	5.46	5.70	5.90	6.08	6.21	6.24	6.28
35.0	4.21	4.44	4.71	4.99	5.29	5.59	5.88	6.16	6.40	6.61	6.69	6.78
40.0	4.15	4.40	4.69	5.01	5.35	5.70	6.06	6.40	6.72	7.01		
45.0	4.07	4.35	4.67	5.02	5.41	5.81	6.22	6.63				
50.0	3.99	4.28	4.63	5.02	5.45	5.91	6.38	6.85				
55.0	3.89	4.21	4.59	5.02	5.49	6.00	6.53					

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
10.0	11.45	15.55	20.50	26.60	34.00	42.70	53.10					
15.0	10.80	14.90	19.90	26.00	33.30	42.00	52.30	64.40				
20.0	10.05	14.15	19.15	25.20	32.50	41.20	51.50	63.50	77.70	94.20		
25.0	9.24	13.35	18.30	24.30	31.60	40.20	50.50	62.60	76.70	93.20	100.50	112.50
30.0	8.32	12.40	17.40	23.40	30.60	39.20	49.40	61.50	75.60	92.20	99.50	111.50
35.0	7.31	11.40	16.35	22.30	29.50	38.00	48.20	60.20	74.40	91.00	98.40	110.50
40.0	6.20	10.30	15.20	21.10	28.30	36.80	46.90	58.90	73.10	89.80		
45.0	4.98	9.08	13.95	19.85	26.90	35.40	45.50	57.50				
50.0	3.65	7.73	12.60	18.40	25.40	33.90	43.90	56.00				
55.0	2.19	6.25	11.05	16.85	23.80	32.20	42.30					

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	14.5
Bore/Stroke, mm	54.0/36.5
Length/Width, mm	470/330
Height, mm	385
Net Weight, kg	83
Gross Weight, kg	89
Suction, inch	7/8
Discharge, inch	5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2
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)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.4
Locked Rotor Current, A	50.6
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
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**ACCESSORIES OPTIONAL**

Additional Cooling	1 or 2 ways water Coil
Additional Cooling	70 W Vertical Air Flow Fan
Additional Cooling	25 W Horizontal Air Flow Fan
Crankcase Heater	70 W Internal
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3

**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
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