



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	2.07	2.83	3.78	4.92	6.28	7.89	9.77					
15.0	1.94	2.68	3.58	4.67	5.98	7.52	9.31	11.40				
20.0	1.80	2.51	3.37	4.41	5.65	7.11	8.83	10.80	13.10	15.70		
25.0	1.64	2.31	3.13	4.12	5.29	6.69	8.32	10.20	12.40	14.90	16.00	17.75
30.0	1.46	2.10	2.88	3.81	4.92	6.24	7.79	9.60	11.70	14.05	15.10	16.80
35.0	1.28	1.88	2.61	3.49	4.54	5.78	7.25	8.96	10.95	13.20	14.20	15.80
40.0	1.08	1.65	2.33	3.16	4.14	5.31	6.69	8.31	10.20	12.35		
45.0	0.88	1.42	2.06	2.82	3.74	4.84	6.13	7.65				
50.0	0.69	1.18	1.78	2.49	3.34	4.36	5.56	6.98				
55.0	0.50	0.96	1.50	2.15	2.94	3.88	5.00					

50 Hz

LF-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	1.18	1.37	1.54	1.68	1.78	1.86	1.88					
15.0	1.20	1.40	1.59	1.75	1.88	1.98	2.04	2.07				
20.0	1.20	1.43	1.64	1.82	1.98	2.10	2.20	2.26	2.28	2.27		
25.0	1.20	1.45	1.68	1.88	2.06	2.22	2.35	2.44	2.51	2.53	2.53	2.52
30.0	1.20	1.46	1.70	1.94	2.15	2.33	2.50	2.63	2.73	2.80	2.82	2.83
35.0	1.17	1.46	1.72	1.98	2.22	2.44	2.64	2.81	2.95	3.06	3.10	3.14
40.0	1.14	1.44	1.74	2.02	2.29	2.54	2.77	2.98	3.17	3.33		
45.0	1.08	1.41	1.73	2.04	2.34	2.63	2.90	3.15				
50.0	1.02	1.37	1.72	2.06	2.39	2.71	3.02	3.31				
55.0	0.94	1.31	1.68	2.05	2.42	2.78	3.12					

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	4.19	4.34	4.48	4.60	4.70	4.76	4.78					
15.0	4.21	4.37	4.52	4.66	4.78	4.87	4.93	4.95				
20.0	4.23	4.39	4.56	4.72	4.86	4.99	5.08	5.14	5.16	5.12		
25.0	4.23	4.41	4.59	4.77	4.94	5.10	5.23	5.33	5.40	5.42	5.42	5.40
30.0	4.23	4.42	4.62	4.82	5.02	5.21	5.38	5.53	5.65	5.73	5.75	5.76
35.0	4.21	4.42	4.63	4.86	5.09	5.32	5.53	5.73	5.90	6.04	6.08	6.14
40.0	4.19	4.40	4.64	4.90	5.16	5.42	5.68	5.92	6.15	6.35		
45.0	4.15	4.38	4.64	4.92	5.22	5.52	5.83	6.12				
50.0	4.09	4.34	4.63	4.94	5.27	5.62	5.97	6.32				
55.0	4.02	4.29	4.61	4.95	5.32	5.71	6.11					

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	9.52	13.10	17.50	22.80	29.30	37.00	46.00					
15.0	9.28	12.80	17.20	22.50	28.90	36.50	45.50	56.00				
20.0	8.91	12.45	16.75	22.00	28.30	35.80	44.70	55.20	67.50	81.80		
25.0	8.43	11.90	16.15	21.30	27.60	35.00	43.90	54.30	66.50	80.70	87.10	97.30
30.0	7.83	11.30	15.50	20.60	26.70	34.10	42.90	53.20	65.30	79.50	85.90	96.10
35.0	7.13	10.55	14.70	19.70	25.80	33.00	41.70	52.00	64.00	78.20	84.60	94.90
40.0	6.34	9.71	13.80	18.70	24.70	31.80	40.40	50.60	62.60	76.80		
45.0	5.46	8.78	12.75	17.60	23.50	30.50	39.00	49.10				
50.0	4.50	7.76	11.70	16.40	22.20	29.10	37.50	47.50				
55.0	3.49	6.68	10.50	15.15	20.80	27.60	35.90					

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	12.9
Bore/Stroke, mm	50.8/36.5
Length/Width, mm	470/330
Height, mm	385
Net Weight, kg	80
Gross Weight, kg	86
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	6.8
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