



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return with add cooling
- █ 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
10.0	2.86	4.05	5.46	7.13	9.10	11.40	14.10					
15.0	2.67	3.79	5.12	6.72	8.60	10.80	13.40	16.35				
20.0	2.46	3.52	4.78	6.29	8.08	10.20	12.65	15.50	18.80	22.50		
25.0	2.24	3.24	4.43	5.86	7.56	9.56	11.90	14.65	17.80	21.40	23.00	25.50
30.0	2.02	2.95	4.07	5.41	7.02	8.93	11.15	13.80	16.80	20.30	21.80	24.20
35.0	1.78	2.65	3.70	4.96	6.48	8.29	10.40	12.90	15.80	19.15	20.60	22.90
40.0	1.54	2.35	3.32	4.51	5.93	7.64	9.66	12.05	14.80	18.00		
45.0	1.30	2.04	2.94	4.04	5.38	6.98	8.90	11.15				
50.0	1.05	1.72	2.56	3.57	4.82	6.32	8.13	10.25				
55.0	0.79	1.40	2.16	3.10	4.25	5.66	7.35					

50 Hz

LL-40X

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	1.71	1.94	2.17	2.40	2.62	2.82	3.00					
15.0	1.62	1.85	2.08	2.31	2.53	2.74	2.92	3.08				
20.0	1.58	1.82	2.06	2.30	2.53	2.75	2.95	3.12	3.26	3.36		
25.0	1.58	1.82	2.08	2.34	2.59	2.83	3.06	3.25	3.42	3.55	3.59	3.63
30.0	1.58	1.84	2.13	2.41	2.69	2.97	3.22	3.45	3.66	3.82	3.88	3.94
35.0	1.56	1.87	2.18	2.50	2.82	3.13	3.43	3.70	3.95	4.16	4.23	4.33
40.0	1.52	1.87	2.22	2.59	2.95	3.31	3.66	3.98	4.28	4.54		
45.0	1.43	1.82	2.23	2.65	3.07	3.48	3.88	4.27				
50.0	1.27	1.72	2.19	2.66	3.14	3.62	4.09	4.54				
55.0	1.02	1.53	2.07	2.61	3.16	3.71	4.26					

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	6.26	5.95	5.78	5.73	5.75	5.84	5.95					
15.0	5.98	5.69	5.53	5.49	5.53	5.64	5.77	5.91				
20.0	5.79	5.52	5.39	5.37	5.44	5.57	5.74	5.91	6.06	6.15		
25.0	5.66	5.41	5.31	5.33	5.44	5.62	5.82	6.04	6.23	6.38	6.42	6.45
30.0	5.54	5.34	5.29	5.36	5.52	5.74	6.00	6.27	6.52	6.73	6.79	6.86
35.0	5.43	5.29	5.29	5.41	5.63	5.92	6.24	6.58	6.90	7.17	7.26	7.38
40.0	5.30	5.21	5.28	5.47	5.76	6.12	6.51	6.93	7.33	7.68		
45.0	5.10	5.09	5.23	5.50	5.87	6.31	6.80	7.30				
50.0	4.83	4.90	5.13	5.49	5.95	6.48	7.06	7.66				
55.0	4.44	4.61	4.93	5.39	5.95	6.59	7.27					

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	13.10	18.55	25.10	32.90	42.20	53.10	66.00					
15.0	12.65	17.95	24.40	32.10	41.20	52.10	64.80	79.80				
20.0	12.10	17.30	23.60	31.20	40.20	50.90	63.60	78.50	95.90	116.00		
25.0	11.45	16.55	22.70	30.20	39.10	49.70	62.30	77.20	94.60	115.00	124.00	138.50
30.0	10.75	15.70	21.70	29.00	37.80	48.40	60.90	75.80	93.20	113.50	123.00	137.50
35.0	9.92	14.75	20.70	27.80	36.50	46.90	59.40	74.20	91.70	112.50	121.50	136.50
40.0	9.00	13.70	19.45	26.50	35.00	45.40	57.80	72.60	90.20	111.00		
45.0	7.96	12.50	18.10	25.00	33.40	43.70	56.10	70.90				
50.0	6.78	11.20	16.65	23.40	31.70	41.90	54.20	69.10				
55.0	5.45	9.70	15.00	21.60	29.80	39.90	52.20					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	18.2
Bore/Stroke, mm	60.4/36.5
Length/Width, mm	470/330
Height, mm	385
Net Weight, kg	87
Gross Weight, kg	93
Suction, inch	1 1/8
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	9.9
Locked Rotor Current, A	58.9
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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