



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return + fan
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW											
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0
20.0	1.58	2.25	3.07	4.06	5.25	6.64	8.27	10.15	12.30	14.70	17.45	18.65
25.0	1.36	1.99	2.76	3.69	4.80	6.10	7.62	9.38	11.40	13.65	16.25	17.35
30.0	1.14	1.74	2.46	3.33	4.36	5.58	7.00	8.64	10.50	12.65	15.10	16.15
35.0	0.92	1.49	2.17	2.98	3.94	5.07	6.38	7.91	9.66	11.65	13.90	14.90
40.0	0.72	1.26	1.88	2.64	3.52	4.56	5.78	7.19	8.81	10.65	12.80	13.70
45.0	0.52	1.02	1.60	2.30	3.11	4.07	5.18	6.48	7.98	9.69	11.65	12.50
50.0		0.79	1.33	1.96	2.71	3.58	4.60	5.78	7.15	8.73	10.50	11.30
55.0		0.56	1.06	1.64	2.31	3.09	4.01	5.09	6.33			

50Hz

LF-30X

R404A Dew Point

Cond °C	Power, kW											
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0
20.0	1.20	1.40	1.58	1.74	1.86	1.96	2.02	2.05	2.02	1.95	1.82	1.76
25.0	1.18	1.41	1.62	1.81	1.98	2.13	2.24	2.31	2.35	2.34	2.28	2.24
30.0	1.14	1.40	1.64	1.86	2.07	2.26	2.41	2.54	2.63	2.68	2.69	2.68
35.0	1.10	1.36	1.63	1.89	2.13	2.36	2.56	2.73	2.88	2.98	3.05	3.07
40.0	1.02	1.32	1.60	1.89	2.17	2.43	2.67	2.89	3.08	3.24	3.37	3.41
45.0	0.94	1.25	1.56	1.87	2.18	2.47	2.75	3.01	3.25	3.47	3.65	3.71
50.0		1.17	1.50	1.83	2.16	2.49	2.80	3.11	3.39	3.65	3.88	3.97
55.0		1.08	1.42	1.78	2.13	2.48	2.83	3.17	3.49			

Cond °C	Current at 400 V, A											
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0
20.0	4.07	4.22	4.36	4.46	4.54	4.58	4.59	4.56	4.49	4.37	4.21	4.13
25.0	4.02	4.20	4.36	4.50	4.62	4.71	4.78	4.82	4.82	4.79	4.72	4.68
30.0	3.98	4.17	4.36	4.54	4.70	4.85	4.97	5.07	5.15	5.20	5.22	5.21
35.0	3.94	4.15	4.36	4.57	4.78	4.97	5.15	5.32	5.46	5.59	5.69	5.73
40.0	3.89	4.12	4.36	4.60	4.84	5.08	5.31	5.54	5.76	5.96	6.15	6.22
45.0	3.83	4.08	4.33	4.60	4.88	5.16	5.45	5.74	6.02	6.30	6.57	6.67
50.0		4.01	4.29	4.59	4.90	5.22	5.56	5.90	6.25	6.60	6.95	7.09
55.0		3.92	4.22	4.54	4.88	5.25	5.63	6.03	6.44			

Cond °C	Mass Flow, g/s											
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0
20.0	9.56	13.65	18.65	24.80	32.20	40.90	51.30	63.40	77.40	93.70	112.50	121.00
25.0	8.58	12.60	17.60	23.60	30.80	39.50	49.60	61.50	75.40	91.60	110.50	118.50
30.0	7.57	11.60	16.50	22.40	29.50	38.00	47.90	59.70	73.40	89.40	108.00	116.00
35.0	6.51	10.50	15.35	21.20	28.10	36.40	46.30	57.80	71.40	87.20	105.50	114.00
40.0	5.36	9.38	14.15	19.90	26.70	34.90	44.50	55.90	69.30	85.00	103.50	111.50
45.0	4.11	8.15	12.90	18.55	25.30	33.30	42.70	54.00	67.20	82.80	101.00	109.50
50.0		6.78	11.50	17.10	23.70	31.50	40.90	52.00	65.10	80.70	99.20	107.50
55.0		5.23	9.97	15.50	22.00	29.80	39.00	50.00	63.10			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /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
Oil Quantity, l	2
Frequency Range, Hz	25 - 60
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 (14.0)
Sound Pressure @ 1m, dBA	51
Sound Power, dBA	62
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	3922
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
Inverter	Emerson Industrial Automation, Unidrive M200 03 400 094

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