



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	1.12	1.52	2.04	2.67	3.43	4.33	5.39					
15.0	1.01	1.40	1.89	2.49	3.21	4.08	5.09	6.27				
20.0	0.91	1.28	1.74	2.31	3.00	3.82	4.79	5.92	7.22	8.71		
25.0	0.81	1.16	1.60	2.13	2.78	3.56	4.48	5.56	6.81	8.23	8.86	9.86
30.0	0.71	1.03	1.44	1.95	2.57	3.31	4.18	5.20	6.39	7.76	8.36	9.31
35.0	0.62	0.92	1.30	1.78	2.35	3.05	3.87	4.85	5.98	7.28	7.85	8.76
40.0	0.53	0.81	1.16	1.60	2.14	2.79	3.57	4.49	5.56	6.80		
45.0	0.44	0.70	1.02	1.43	1.93	2.54	3.26	4.13				
50.0	0.37	0.60	0.89	1.27	1.72	2.28	2.96	3.77				
55.0	0.30	0.50	0.77	1.10	1.52	2.03	2.66					

50 Hz

KL-20

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	0.64	0.73	0.82	0.89	0.94	0.96	0.96					
15.0	0.65	0.75	0.85	0.93	1.00	1.05	1.07	1.06				
20.0	0.66	0.77	0.88	0.97	1.06	1.13	1.18	1.20	1.20	1.16		
25.0	0.67	0.78	0.90	1.01	1.11	1.20	1.28	1.33	1.36	1.36	1.34	1.32
30.0	0.67	0.79	0.92	1.04	1.16	1.27	1.37	1.45	1.51	1.54	1.55	1.54
35.0	0.66	0.79	0.93	1.06	1.20	1.34	1.46	1.56	1.66	1.72	1.74	1.77
40.0	0.66	0.79	0.93	1.08	1.24	1.39	1.54	1.68	1.80	1.90		
45.0	0.64	0.78	0.93	1.10	1.27	1.44	1.61	1.78				
50.0	0.62	0.76	0.92	1.10	1.28	1.48	1.68	1.87				
55.0	0.58	0.73	0.91	1.10	1.30	1.52	1.73					

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	2.08	2.15	2.22	2.29	2.33	2.36	2.35					
15.0	2.09	2.17	2.25	2.33	2.39	2.44	2.46	2.46				
20.0	2.10	2.18	2.27	2.36	2.45	2.52	2.58	2.60	2.60	2.55		
25.0	2.11	2.19	2.29	2.40	2.50	2.60	2.69	2.75	2.78	2.78	2.77	2.74
30.0	2.11	2.20	2.31	2.43	2.55	2.68	2.79	2.89	2.97	3.01	3.02	3.02
35.0	2.11	2.20	2.32	2.45	2.60	2.75	2.90	3.03	3.15	3.24	3.27	3.30
40.0	2.10	2.20	2.32	2.47	2.64	2.82	2.99	3.17	3.32	3.46		
45.0	2.09	2.19	2.32	2.49	2.68	2.88	3.09	3.29				
50.0	2.07	2.17	2.32	2.50	2.70	2.93	3.17	3.42				
55.0	2.04	2.14	2.30	2.49	2.72	2.98	3.25					

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	5.14	7.05	9.44	12.40	16.00	20.30	25.40					
15.0	4.82	6.70	9.06	11.95	15.50	19.75	24.80	30.80				
20.0	4.49	6.33	8.65	11.50	15.00	19.25	24.30	30.20	37.10	45.30		
25.0	4.15	5.96	8.23	11.05	14.50	18.65	23.60	29.50	36.50	44.60	48.20	54.10
30.0	3.80	5.56	7.79	10.55	13.95	18.05	23.00	28.80	35.70	43.90	47.50	53.40
35.0	3.45	5.16	7.33	10.05	13.35	17.40	22.30	28.10	35.00	43.10	46.70	52.60
40.0	3.10	4.75	6.85	9.49	12.75	16.75	21.50	27.30	34.20	42.30		
45.0	2.75	4.34	6.37	8.92	12.10	16.00	20.80	26.50				
50.0	2.40	3.92	5.87	8.34	11.45	15.25	19.95	25.60				
55.0	2.08	3.51	5.36	7.73	10.75	14.50	19.10					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	7.38
Bore/Stroke, mm	47.6/23.8
Length/Width, mm	365/235
Height, mm	280
Net Weight, kg	39
Gross Weight, kg	41
Suction, inch	5/8
Discharge, inch	1/2
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	0.65
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	208 x 162 (11)
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	3.8
Locked Rotor Current, A	23.3
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	25 W Horizontal Air Flow Fan
Additional Cooling	7 W Vertical Air Flow Fan
Crankcase Heater	27 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
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20