



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	0.80	1.10	1.46	1.91	2.44	3.07	3.81					
15.0	0.73	1.01	1.36	1.78	2.29	2.89	3.59	4.41				
20.0	0.66	0.92	1.25	1.65	2.13	2.70	3.37	4.14	5.04	6.06		
25.0	0.58	0.84	1.14	1.52	1.97	2.51	3.14	3.88	4.73	5.71	6.14	6.82
30.0	0.51	0.75	1.03	1.39	1.82	2.32	2.92	3.61	4.42	5.35	5.76	6.41
35.0	0.44	0.66	0.93	1.26	1.66	2.13	2.69	3.35	4.12	5.00	5.38	6.01
40.0	0.36	0.57	0.82	1.12	1.50	1.94	2.47	3.09	3.81	4.64		
45.0	0.29	0.48	0.72	1.00	1.34	1.75	2.24	2.82				
50.0	0.22	0.40	0.61	0.87	1.18	1.56	2.02	2.56				
55.0	0.15	0.31	0.51	0.74	1.03	1.38	1.80					

50 Hz

KJ-10

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	0.46	0.51	0.56	0.61	0.65	0.68	0.69					
15.0	0.46	0.52	0.58	0.64	0.70	0.74	0.76	0.77				
20.0	0.46	0.53	0.60	0.67	0.74	0.79	0.84	0.86	0.85	0.81		
25.0	0.47	0.54	0.62	0.70	0.78	0.85	0.91	0.94	0.96	0.94	0.92	0.89
30.0	0.47	0.55	0.63	0.73	0.82	0.90	0.98	1.03	1.06	1.07	1.06	1.04
35.0	0.46	0.55	0.64	0.75	0.85	0.95	1.04	1.12	1.16	1.19	1.19	1.18
40.0	0.45	0.54	0.65	0.76	0.88	0.99	1.10	1.19	1.26	1.30		
45.0	0.43	0.53	0.65	0.77	0.90	1.03	1.15	1.26				
50.0	0.40	0.51	0.63	0.77	0.91	1.05	1.19	1.32				
55.0	0.36	0.47	0.61	0.75	0.91	1.06	1.22					

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	1.64	1.69	1.74	1.79	1.83	1.85	1.86					
15.0	1.66	1.71	1.76	1.81	1.86	1.89	1.91	1.91				
20.0	1.67	1.72	1.77	1.83	1.89	1.94	1.97	1.98	1.97	1.93		
25.0	1.68	1.73	1.79	1.85	1.92	1.98	2.03	2.07	2.08	2.06	2.04	2.01
30.0	1.68	1.73	1.80	1.87	1.95	2.03	2.09	2.15	2.18	2.20	2.19	2.18
35.0	1.68	1.73	1.81	1.89	1.98	2.07	2.16	2.23	2.29	2.33	2.34	2.35
40.0	1.67	1.73	1.81	1.90	2.00	2.11	2.22	2.32	2.41	2.48		
45.0	1.65	1.71	1.80	1.91	2.02	2.15	2.28	2.40				
50.0	1.62	1.69	1.79	1.91	2.04	2.19	2.34	2.49				
55.0	1.58	1.66	1.77	1.90	2.05	2.21	2.39					

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	3.67	5.06	6.77	8.87	11.40	14.40	17.95					
15.0	3.47	4.83	6.51	8.56	11.05	14.00	17.50	21.70				
20.0	3.24	4.58	6.23	8.24	10.65	13.60	17.05	21.10	25.90	31.50		
25.0	2.99	4.31	5.92	7.89	10.30	13.15	16.55	20.60	25.40	30.90	33.40	37.40
30.0	2.73	4.01	5.59	7.51	9.85	12.65	16.05	20.00	24.70	30.30	32.70	36.80
35.0	2.44	3.69	5.23	7.11	9.40	12.15	15.50	19.40	24.10	29.60	32.10	36.10
40.0	2.13	3.35	4.85	6.68	8.92	11.65	14.90	18.80	23.40	28.90		
45.0	1.79	2.99	4.44	6.22	8.41	11.05	14.25	18.10				
50.0	1.44	2.59	4.01	5.74	7.86	10.45	13.60	17.40				
55.0	1.05	2.18	3.54	5.22	7.28	9.82	12.90					

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	5.13
Bore/Stroke, mm	39.7/23.8
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)
Sound Pressure @ 1m, dBA	45
Sound Power, dBA	56
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	3.2
Locked Rotor Current, A	15.5
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
------------------	---

**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**

<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
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20