



Minimum Evaporating Temp. With:

- 25 °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											
	-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	0.45	0.64	0.86	1.14	1.48	1.86	2.32	2.85	3.45	4.13	4.90	5.23
25.0	0.39	0.56	0.78	1.04	1.36	1.72	2.15	2.64	3.21	3.85	4.58	4.89
30.0	0.33	0.50	0.70	0.94	1.24	1.58	1.98	2.44	2.97	3.57	4.25	4.55
35.0	0.27	0.43	0.62	0.85	1.12	1.44	1.81	2.24	2.73	3.30	3.93	4.21
40.0	0.21	0.36	0.54	0.75	1.00	1.30	1.64	2.04	2.50	3.02	3.61	3.87
45.0	0.15	0.29	0.46	0.66	0.89	1.16	1.48	1.84	2.26	2.74	3.29	3.53
50.0		0.23	0.38	0.56	0.77	1.02	1.30	1.64	2.03	2.47	2.98	3.20
55.0		0.16	0.30	0.47	0.66	0.88	1.14	1.44	1.79	2.20	2.66	2.86

50 Hz

DKM-7X

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	0.39	0.45	0.50	0.55	0.59	0.62	0.64	0.64	0.62	0.58	0.52	0.49
25.0	0.39	0.45	0.52	0.58	0.63	0.67	0.70	0.72	0.72	0.70	0.66	0.63
30.0	0.37	0.45	0.52	0.59	0.66	0.71	0.76	0.79	0.81	0.80	0.78	0.77
35.0	0.35	0.43	0.52	0.60	0.67	0.74	0.80	0.85	0.88	0.90	0.90	0.89
40.0	0.32	0.41	0.50	0.59	0.68	0.76	0.84	0.90	0.95	0.98	1.00	1.01
45.0	0.29	0.38	0.48	0.58	0.68	0.78	0.86	0.94	1.01	1.06	1.10	1.10
50.0		0.35	0.46	0.57	0.68	0.78	0.89	0.98	1.06	1.13	1.18	1.20
55.0		0.32	0.43	0.55	0.67	0.79	0.90	1.01	1.11	1.20	1.27	1.30

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	1.30	1.33	1.38	1.43	1.49	1.53	1.57	1.58	1.58	1.54	1.48	1.44
25.0	1.32	1.36	1.41	1.46	1.52	1.57	1.62	1.64	1.65	1.64	1.59	1.56
30.0	1.32	1.36	1.42	1.48	1.54	1.60	1.66	1.70	1.73	1.73	1.70	1.68
35.0	1.31	1.36	1.41	1.48	1.56	1.63	1.70	1.75	1.80	1.82	1.81	1.80
40.0	1.29	1.34	1.40	1.48	1.56	1.65	1.73	1.81	1.87	1.91	1.92	1.92
45.0	1.25	1.31	1.38	1.47	1.56	1.66	1.76	1.86	1.94	2.00	2.04	2.05
50.0		1.27	1.35	1.45	1.56	1.68	1.80	1.91	2.01	2.10	2.17	2.19
55.0		1.22	1.31	1.43	1.55	1.69	1.83	1.96	2.09	2.20	2.30	2.33

Cond °C	Suction 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	2.72	3.85	5.26	6.97	9.04	11.50	14.40	17.80	21.70	26.30	31.60	34.00
25.0	2.45	3.58	4.98	6.67	8.70	11.15	14.00	17.35	21.20	25.80	31.00	33.40
30.0	2.17	3.30	4.68	6.35	8.36	10.75	13.55	16.85	20.70	25.20	30.50	32.80
35.0	1.88	3.01	4.38	6.02	7.99	10.35	13.10	16.35	20.20	24.70	29.90	32.20
40.0	1.56	2.69	4.05	5.67	7.61	9.91	12.65	15.85	19.65	24.10	29.30	31.60
45.0	1.20	2.35	3.69	5.29	7.20	9.46	12.15	15.30	19.05	23.50	28.60	31.00
50.0		1.96	3.30	4.88	6.75	8.98	11.60	14.75	18.45	22.90	28.00	30.40
55.0		1.53	2.87	4.43	6.27	8.46	11.05	14.15	17.85	22.30	27.50	29.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	3.97
Bore/Stroke, mm	34.9/23.8
Length/Width, mm	365/235
Height, mm	280
Net Weight, kg	39
Gross Weight, kg	41
Suction, inch	1/2
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	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	2.4
Locked Rotor Current, A	12.2
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
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	7 W Vertical Air Flow Fan
Additional Cooling	25 W Horizontal Air Flow Fan
Crankcase Heater	27 W Internal

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