



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	10.0	12.5
25.0	0.29	0.46	0.66	0.89	1.18	1.52	1.91	2.37	2.91	3.52	4.22	4.52		
30.0	0.24	0.39	0.58	0.81	1.08	1.40	1.78	2.21	2.72	3.30	3.96	4.25	4.71	5.13
35.0	0.18	0.33	0.51	0.73	0.98	1.28	1.64	2.05	2.53	3.08	3.71	3.99	4.43	4.82
40.0		0.26	0.44	0.64	0.89	1.17	1.50	1.90	2.35	2.87	3.46	3.72	4.14	4.51
45.0			0.37	0.57	0.79	1.06	1.38	1.74	2.17	2.66	3.22	3.47	3.86	4.21
50.0			0.30	0.49	0.70	0.96	1.25	1.60	2.00	2.46	2.99	3.22	3.59	3.92
55.0				0.42	0.62	0.86	1.13	1.46	1.82	2.26	2.76	2.98	3.33	3.64
60.0				0.35	0.54	0.76	1.02	1.32	1.66	2.07	2.54	2.74	3.07	3.36
62.0				0.32	0.51	0.72	0.97	1.27	1.60	2.00	2.45	2.65	2.97	3.26

50 Hz

DKM-7X

R22

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	10.0	12.5
25.0	0.34	0.40	0.46	0.51	0.56	0.59	0.62	0.64	0.64	0.64	0.62	0.61		
30.0	0.33	0.40	0.46	0.52	0.57	0.62	0.66	0.69	0.71	0.72	0.72	0.72	0.71	0.70
35.0	0.31	0.38	0.46	0.52	0.58	0.64	0.69	0.74	0.77	0.80	0.81	0.81	0.82	0.81
40.0		0.37	0.45	0.52	0.59	0.66	0.72	0.78	0.82	0.87	0.90	0.91	0.92	0.92
45.0			0.43	0.52	0.60	0.67	0.75	0.81	0.88	0.93	0.98	1.00	1.02	1.03
50.0			0.42	0.51	0.60	0.68	0.77	0.85	0.92	0.99	1.06	1.08	1.11	1.14
55.0				0.50	0.60	0.69	0.79	0.88	0.97	1.05	1.13	1.16	1.20	1.23
60.0				0.49	0.60	0.70	0.80	0.91	1.01	1.10	1.20	1.24	1.28	1.32
62.0				0.48	0.59	0.70	0.81	0.92	1.02	1.13	1.23	1.27	1.32	1.36

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	10.0	12.5
25.0	1.25	1.28	1.32	1.36	1.41	1.45	1.48	1.50	1.51	1.50	1.48	1.46		
30.0	1.24	1.28	1.32	1.37	1.42	1.47	1.52	1.55	1.58	1.59	1.58	1.58	1.56	1.53
35.0	1.23	1.27	1.32	1.38	1.44	1.50	1.56	1.61	1.65	1.67	1.69	1.69	1.68	1.67
40.0		1.26	1.32	1.38	1.45	1.52	1.59	1.65	1.71	1.76	1.79	1.80	1.80	1.80
45.0			1.31	1.38	1.46	1.54	1.62	1.70	1.77	1.83	1.88	1.90	1.92	1.93
50.0			1.30	1.38	1.46	1.55	1.65	1.74	1.83	1.90	1.97	2.00	2.03	2.05
55.0				1.37	1.46	1.56	1.67	1.77	1.88	1.97	2.06	2.09	2.13	2.17
60.0				1.36	1.46	1.57	1.68	1.80	1.92	2.03	2.14	2.18	2.23	2.28
62.0				1.35	1.45	1.57	1.69	1.81	1.94	2.05	2.17	2.21	2.27	2.32

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	10.0	12.5
25.0	1.50	2.33	3.34	4.57	6.04	7.81	9.89	12.35	15.20	18.55	22.40	24.10		
30.0	1.24	2.07	3.07	4.28	5.73	7.45	9.49	11.90	14.70	18.00	21.80	23.50	26.20	28.60
35.0	0.95	1.80	2.79	3.98	5.39	7.08	9.08	11.45	14.20	17.40	21.10	22.80	25.50	27.90
40.0		1.50	2.49	3.66	5.05	6.70	8.66	10.95	13.65	16.85	20.50	22.10	24.80	27.20
45.0			2.18	3.34	4.70	6.32	8.23	10.50	13.15	16.25	19.85	21.50	24.10	26.40
50.0			1.86	3.01	4.35	5.93	7.80	10.00	12.60	15.65	19.20	20.80	23.40	25.70
55.0				2.68	4.00	5.55	7.38	9.54	12.10	15.05	18.60	20.10	22.70	25.00
60.0				2.34	3.65	5.17	6.96	9.07	11.55	14.50	17.95	19.50	22.00	24.30
62.0				2.21	3.51	5.02	6.80	8.89	11.35	14.30	17.75	19.25	21.80	24.00

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)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1810
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