



Minimum Evaporating Temp. With:	
— 20 °C Suction Gas Return	— 20 °C Suction Gas Return with add cooling
— 0 °C Suction Gas Return	— 0 °C Suction Gas Return with add cooling
— Maximum Evaporating Temperature	

Suction Superheat 10.0K

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	22.20	30.00	39.50	51.10	65.10	81.70	101.00	124.00				
15.0	20.00	27.70	37.00	48.20	61.70	77.50	96.20	118.00	143.00			
20.0	17.70	25.20	34.30	45.00	57.80	73.00	90.70	111.50	135.50	162.50	193.50	
25.0	15.20	22.60	31.30	41.60	53.70	68.10	84.90	104.50	127.00	153.50	183.00	195.50
30.0	12.65	19.80	28.10	37.90	49.30	62.90	78.70	97.30	119.00	143.50	171.50	184.00
35.0		16.95	24.80	34.00	44.80	57.40	72.30	89.70	110.00	133.50	160.00	172.00
40.0		14.05	21.40	30.00	40.00	51.70	65.60	81.80	101.00	123.00	148.00	159.50
45.0			18.05	25.90	35.10	45.80	58.60	73.60	91.30	112.00	136.00	146.50
50.0				21.80	30.00	39.80	51.50	65.20	81.50	100.50	123.00	133.00
55.0				17.65	25.00	33.70	44.20	56.60	71.50	89.10	110.00	119.00
60.0					20.00	27.60	36.80	47.90	61.30	77.30	96.50	
62.0					18.05	25.20	33.80	44.40	57.10	72.60		

50 Hz

6MKD-50X 100% Loaded

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
10.0	12.25	13.95	15.55	16.95	18.20	19.30	20.20	20.90				
15.0	12.75	14.65	16.45	18.10	19.60	20.90	22.10	23.00	23.80			
20.0	13.10	15.25	17.30	19.25	21.00	22.60	24.00	25.20	26.20	27.00	27.60	
25.0	13.30	15.75	18.10	20.30	22.30	24.20	25.90	27.40	28.70	29.80	30.70	30.90
30.0	13.40	16.10	18.70	21.20	23.50	25.70	27.70	29.50	31.10	32.60	33.80	34.20
35.0		16.25	19.15	21.90	24.60	27.10	29.40	31.60	33.50	35.30	36.90	37.40
40.0		16.20	19.40	22.50	25.50	28.30	31.00	33.50	35.90	38.00	39.90	40.60
45.0			19.45	22.90	26.20	29.40	32.50	35.40	38.10	40.60	42.90	43.70
50.0				23.10	26.80	30.30	33.80	37.00	40.10	43.00	45.70	46.70
55.0				22.90	27.00	31.00	34.80	38.50	42.00	45.30	48.50	49.60
60.0					27.00	31.40	35.70	39.80	43.70	47.40	51.00	
62.0					26.90	31.50	35.90	40.20	44.30	48.20		

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	39.32	40.41	41.68	43.00	44.23	45.25	45.93	46.14				
15.0	39.60	40.90	42.43	44.07	45.68	47.13	48.29	49.04	49.24			
20.0	39.85	41.36	43.16	45.12	47.11	48.99	50.64	51.93	52.73	52.90	52.33	
25.0	40.02	41.75	43.83	46.11	48.48	50.80	52.95	54.78	56.18	57.01	57.15	56.98
30.0	40.10	42.05	44.40	47.02	49.77	52.54	55.18	57.57	59.57	61.06	61.92	62.05
35.0		42.23	44.86	47.82	50.96	54.17	57.31	60.25	62.87	65.03	66.60	67.03
40.0		42.26	45.18	48.47	52.01	55.66	59.31	62.81	66.04	68.87	71.16	71.90
45.0			45.31	48.95	52.89	56.99	61.15	65.21	69.06	72.56	75.59	76.63
50.0				49.23	53.57	58.13	62.80	67.43	71.90	76.08	79.84	81.19
55.0				49.28	54.03	59.05	64.23	69.44	74.54	79.40	83.89	85.56
60.0					54.23	59.72	65.42	71.20	76.93	82.48	87.71	
62.0					54.23	59.91	65.82	71.84	77.82	83.64		

50 Hz

6MKD-50X 100% Loaded

R404A Dew Point

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	165.00	218.00	281.00	355.00	443.00	544.00	661.00	794.00				
15.0	157.50	212.00	277.00	353.00	441.00	543.00	659.00	792.00	942.00			
20.0	147.50	205.00	271.00	348.00	437.00	539.00	655.00	788.00	937.00	1105.00	1291.00	
25.0	135.50	195.50	264.00	341.00	430.00	532.00	648.00	781.00	930.00	1098.00	1284.00	1365.00
30.0	121.00	184.00	253.00	332.00	421.00	523.00	639.00	771.00	920.00	1088.00	1276.00	1356.00
35.0		169.50	241.00	320.00	410.00	511.00	627.00	759.00	908.00	1076.00	1264.00	1345.00
40.0		153.50	226.00	306.00	396.00	497.00	612.00	743.00	892.00	1061.00	1250.00	1332.00
45.0			209.00	289.00	379.00	480.00	594.00	725.00	874.00	1043.00	1234.00	1317.00
50.0				270.00	359.00	460.00	574.00	704.00	853.00	1023.00	1217.00	1301.00
55.0				248.00	337.00	437.00	551.00	681.00	831.00	1003.00	1199.00	1286.00
60.0					313.00	412.00	526.00	657.00	808.00	983.00	1186.00	
62.0					303.00	402.00	516.00	647.00	800.00	977.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	773/547
Height, mm	450
Net Weight, kg	236
Suction, inch	2 5/8
Discharge, inch	1 5/8
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	80
Sound Power (LT), dBA	91
Sound Power with Sound Shell (LT), dBA	76
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	76
Sound Power (MT), dBA	87
Sound Power with Sound Shell (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	33-100%
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	92.9
Locked Rotor Current, A	393
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-66%
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Oil Pressure Switch	OPS2 Electronic Switch
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
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
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00