



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	54.70	68.70	85.60	106.00	130.00					
15.0	52.40	66.00	82.40	102.00	125.00	152.00				
20.0	49.90	63.20	79.00	97.80	120.00	145.50	175.50			
25.0	47.30	60.10	75.40	93.40	114.50	139.00	167.50	180.00	200.00	218.00
30.0	44.60	56.90	71.50	88.70	109.00	132.50	159.50	171.50	190.50	208.00
35.0	41.80	53.60	67.50	83.80	103.00	125.00	151.00	162.00	180.50	197.00
40.0		50.10	63.20	78.60	96.60	117.50	142.00	152.50	170.00	185.50
45.0			58.80	73.30	90.20	110.00	132.50	143.00	159.00	173.50
50.0			54.30	67.80	83.50	102.00	123.00	132.50	148.00	161.50
55.0				62.00	76.60	93.50	113.50	122.00	136.00	149.00
60.0				56.20	69.40	85.00	103.00			
62.0					66.50	81.50				

50 Hz

6MKD-50X 100% Loaded

R407A Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	15.50	16.40	17.00	17.20	16.90					
15.0	16.70	18.00	19.00	19.65	19.85	19.50				
20.0	17.90	19.50	20.90	21.90	22.60	22.80	22.40			
25.0	19.00	20.90	22.60	24.10	25.30	26.00	26.20	26.10	25.80	25.30
30.0	20.00	22.20	24.30	26.20	27.80	29.00	29.80	29.90	30.00	29.90
35.0	20.90	23.40	25.80	28.10	30.10	31.80	33.20	33.60	34.00	34.20
40.0		24.40	27.20	29.80	32.30	34.50	36.40	37.00	37.80	38.30
45.0			28.40	31.40	34.30	37.00	39.40	40.20	41.30	42.20
50.0			29.50	32.90	36.20	39.30	42.20	43.20	44.70	45.80
55.0				34.10	37.80	41.40	44.70	46.00	47.80	49.20
60.0				35.20	39.20	43.20	47.10			
62.0					39.70	43.90				

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	42.38	42.93	43.34	43.44	43.04					
15.0	43.04	43.99	44.87	45.50	45.70	45.30				
20.0	43.87	45.23	46.57	47.74	48.54	48.82	48.39			
25.0	44.80	46.57	48.39	50.09	51.51	52.46	52.77	52.67	52.26	51.65
30.0	45.77	47.95	50.25	52.50	54.53	56.15	57.21	57.43	57.52	57.34
35.0	46.71	49.30	52.09	54.89	57.53	59.84	61.65	62.19	62.77	63.03
40.0		50.57	53.84	57.20	60.46	63.46	66.02	66.88	67.97	68.65
45.0			55.45	59.36	63.25	66.94	70.26	71.44	73.03	74.16
50.0			56.84	61.31	65.83	70.22	74.30	75.81	77.90	79.46
55.0				62.99	68.14	73.23	78.07	79.91	82.51	84.52
60.0				64.32	70.11	75.90	81.52			
62.0					70.79	76.87				

50 Hz

6MKD-50X 100% Loaded

R407A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	257.00	323.00	405.00	503.00	621.00					
15.0	255.00	322.00	404.00	502.00	620.00	759.00				
20.0	252.00	320.00	402.00	500.00	617.00	756.00	919.00			
25.0	248.00	316.00	398.00	497.00	613.00	751.00	914.00	987.00	1106.00	1214.00
30.0	244.00	312.00	394.00	492.00	608.00	745.00	908.00	981.00	1099.00	1207.00
35.0	238.00	307.00	389.00	486.00	601.00	738.00	899.00	972.00	1090.00	1198.00
40.0		301.00	382.00	478.00	593.00	728.00	889.00	961.00	1079.00	1187.00
45.0			374.00	470.00	583.00	717.00	877.00	949.00	1066.00	1174.00
50.0			365.00	460.00	571.00	704.00	863.00	934.00	1051.00	1159.00
55.0				448.00	558.00	690.00	847.00	918.00	1035.00	1142.00
60.0				435.00	543.00	673.00	829.00			
62.0					537.00	666.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/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 (MT), dBA	77
Sound Power (MT), dBA	88
Sound Power with Sound Shell (MT), dBA	76
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	77
Sound Power (HT), dBA	88
Sound Power with Sound Shell (HT), dBA	76
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	2107
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