



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °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											
	-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	25.50	33.60	43.40	55.20	69.30	86.00	105.50	128.00				
15.0	23.70	31.60	41.20	52.70	66.20	82.20	101.00	122.50	147.00			
20.0	21.60	29.50	38.80	49.80	62.90	78.10	95.80	116.50	140.00	166.50	196.50	
25.0	19.50	27.20	36.20	46.80	59.20	73.70	90.50	110.00	132.00	157.50	186.00	198.50
30.0		24.70	33.40	43.50	55.20	68.90	84.80	103.00	124.00	148.00	175.00	187.00
35.0		22.10	30.40	40.00	51.10	63.90	78.80	96.00	115.50	138.00	163.50	175.00
40.0			27.30	36.30	46.70	58.70	72.60	88.60	107.00	128.00	152.00	162.50
45.0			24.20	32.50	42.20	53.30	66.10	80.90	97.90	117.50	139.50	149.50
50.0				28.70	37.50	47.60	59.40	72.90	88.60	106.50	127.00	136.00
55.0				24.70	32.70	41.90	52.50	64.80	79.00	95.30	114.00	122.50
60.0					27.90	36.00	45.40	56.40	69.10	83.90	101.00	
62.0					25.90	33.70	42.60	53.00	65.10	79.20		

50 Hz

6MK-50X

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		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			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		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			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

6MK-50X

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	142.00	187.00	242.00	309.00	390.00	486.00	599.00	732.00				
15.0	137.00	183.50	240.00	307.00	389.00	485.00	598.00	731.00	885.00			
20.0	131.00	178.50	236.00	304.00	385.00	481.00	594.00	727.00	881.00	1061.00	1269.00	
25.0	123.50	172.50	230.00	299.00	380.00	476.00	589.00	721.00	875.00	1054.00	1263.00	1356.00
30.0		165.00	224.00	292.00	374.00	469.00	581.00	713.00	866.00	1045.00	1254.00	1347.00
35.0		156.00	215.00	284.00	365.00	460.00	571.00	702.00	855.00	1034.00	1243.00	1337.00
40.0			205.00	274.00	355.00	449.00	559.00	689.00	841.00	1020.00	1230.00	1324.00
45.0			194.00	263.00	342.00	435.00	545.00	674.00	825.00	1004.00	1214.00	1309.00
50.0				249.00	328.00	420.00	528.00	656.00	807.00	986.00	1198.00	1293.00
55.0				234.00	312.00	403.00	510.00	636.00	787.00	966.00	1181.00	1278.00
60.0					295.00	384.00	490.00	616.00	767.00	949.00	1168.00	
62.0					287.00	377.00	482.00	609.00	760.00	943.00		

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	230
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	75
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	71
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
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	416
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
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

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 67/33 %
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Digital Modulation	33-100 %
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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