



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MK-50X

R134a

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	43.90	55.30	69.30									
15.0	41.60	52.60	66.00	82.20								
20.0	39.30	49.80	62.70	78.20	96.70							
25.0	36.90	47.00	59.30	74.10	91.80	112.50	122.00					
30.0	34.50	44.20	55.90	70.00	86.80	106.50	115.50	129.50	142.50			
35.0	32.10	41.40	52.50	65.90	81.80	100.50	109.00	122.50	134.50	147.50		
40.0	29.80	38.60	49.10	61.70	76.70	94.30	102.00	115.00	126.50	139.00		
45.0	27.40	35.70	45.70	57.60	71.60	88.20	95.60	107.50	118.50	130.00		
50.0	25.10	32.90	42.20	53.40	66.50	82.00	88.90	100.00	110.00	121.00		
55.0	22.70	30.10	38.80	49.10	61.40	75.80	82.20	92.60	102.00	112.00		
60.0		27.30	35.40	44.90	56.30	69.60	75.50	85.20	93.90	103.00		
65.0			31.90	40.70	51.10	63.40	68.80	77.60	85.60	94.30		
70.0			28.50	36.60	46.00	57.10	62.10	70.10	77.40	85.30		
75.0				32.40	40.90	50.90	55.40	62.60	69.20	76.30		
80.0				28.20	35.80	44.70	48.70	55.10	61.00	67.30		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	11.20	11.75	12.00									
15.0	12.05	12.90	13.45	13.70								
20.0	12.85	13.90	14.75	15.30	15.50							
25.0	13.50	14.80	15.95	16.80	17.35	17.50	17.45					
30.0	14.15	15.60	17.00	18.15	19.05	19.60	19.70	19.70	19.60			
35.0	14.65	16.30	17.90	19.40	20.60	21.60	21.80	22.10	22.20	22.20		
40.0	15.15	16.95	18.75	20.50	22.00	23.30	23.80	24.30	24.60	24.80		
45.0	15.60	17.55	19.50	21.50	23.30	25.00	25.50	26.30	26.80	27.30		
50.0	16.00	18.05	20.20	22.40	24.50	26.40	27.20	28.20	28.90	29.60		
55.0	16.40	18.55	20.80	23.20	25.50	27.80	28.70	29.90	30.80	31.70		
60.0		19.00	21.40	23.90	26.50	29.00	30.00	31.50	32.60	33.60		
65.0			21.90	24.60	27.40	30.20	31.30	32.90	34.20	35.50		
70.0			22.50	25.30	28.20	31.20	32.50	34.20	35.70	37.10		
75.0				25.90	29.00	32.20	33.50	35.50	37.10	38.70		
80.0				26.50	29.70	33.10	34.50	36.60	38.40	40.20		

50 Hz

6MK-50X

R134a

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	38.09	38.58	38.84									
15.0	38.76	39.42	39.90	40.13								
20.0	39.39	40.23	40.95	41.46	41.66							
25.0	39.99	41.01	41.97	42.76	43.30	43.48	43.44					
30.0	40.54	41.76	42.95	44.03	44.91	45.49	45.62	45.67	45.59			
35.0	41.05	42.45	43.89	45.27	46.49	47.46	47.76	48.09	48.25	48.29		
40.0	41.49	43.09	44.78	46.45	48.02	49.39	49.87	50.48	50.88	51.17		
45.0	41.87	43.67	45.60	47.58	49.50	51.28	51.93	52.81	53.46	54.01		
50.0	42.16	44.17	46.36	48.64	50.92	53.10	53.93	55.10	55.99	56.81		
55.0	42.38	44.59	47.04	49.63	52.27	54.87	55.87	57.32	58.47	59.54		
60.0		44.92	47.64	50.54	53.54	56.55	57.74	59.47	60.87	62.21		
65.0			48.13	51.36	54.73	58.16	59.52	61.55	63.20	64.81		
70.0			48.53	52.08	55.82	59.67	61.22	63.53	65.44	67.32		
75.0				52.69	56.81	61.09	62.82	65.43	67.59	69.74		
80.0				53.18	57.69	62.39	64.32	67.22	69.64	72.06		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	213.00	269.00	338.00									
15.0	209.00	265.00	334.00	418.00								
20.0	204.00	260.00	329.00	412.00	512.00							
25.0	199.50	255.00	323.00	406.00	505.00	624.00	678.00					
30.0	194.50	250.00	317.00	399.00	498.00	616.00	669.00	755.00	834.00			
35.0	189.00	244.00	311.00	392.00	490.00	606.00	659.00	745.00	823.00	909.00		
40.0	183.00	238.00	304.00	385.00	481.00	596.00	648.00	733.00	811.00	896.00		
45.0	176.50	231.00	297.00	376.00	472.00	586.00	637.00	721.00	798.00	882.00		
50.0	170.00	224.00	289.00	368.00	462.00	574.00	625.00	708.00	784.00	867.00		
55.0	163.00	216.00	281.00	358.00	451.00	562.00	612.00	694.00	769.00	851.00		
60.0		208.00	272.00	348.00	439.00	548.00	598.00	679.00	753.00	835.00		
65.0			262.00	337.00	427.00	534.00	583.00	663.00	736.00	817.00		
70.0			252.00	325.00	413.00	519.00	567.00	646.00	719.00	798.00		
75.0				313.00	399.00	503.00	551.00	628.00	700.00	779.00		
80.0				300.00	385.00	487.00	534.00	611.00	682.00	760.00		

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	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 (MT), dBA	75
Sound Power (MT), dBA	86
Sound Power with Sound Shell (MT), dBA	69
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	1430
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

<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