



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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

Additional restrictions, please see application guidelines

50 Hz

6MK-50X

R513A

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	15.0	20.0	25.0
10.0	37.00	46.20	57.70	71.60									
15.0	35.10	44.10	55.20	68.70	84.70								
20.0	33.20	41.90	52.60	65.50	80.90	99.00							
25.0	31.20	39.60	49.90	62.30	77.00	94.20	114.00						
30.0	29.10	37.20	47.10	58.90	72.90	89.30	108.00	116.50	130.00	142.00			
35.0	27.10	34.80	44.20	55.50	68.70	84.20	102.00	110.00	122.50	134.00	146.00		
40.0	25.00	32.40	41.30	51.90	64.40	79.00	95.80	103.00	115.00	125.50	137.00		
45.0	22.80	29.90	38.30	48.30	60.00	73.60	89.30	96.20	107.50	117.00	127.50		
50.0	20.70	27.30	35.20	44.50	55.40	68.10	82.70	89.10	99.30	108.50	118.50		
55.0		24.80	32.10	40.70	50.80	62.50	75.90	81.80	91.20	99.70	108.50		
60.0		22.20	28.90	36.90	46.10	56.70	69.00	74.30	83.00	90.70	98.80		
65.0			25.70	32.90	41.30	50.90	61.90	66.80	74.60	81.50	88.90		
70.0			22.50	28.90	36.40	44.90	54.80	59.10	66.00	72.20	78.80		
75.0				24.90	31.40	38.90	47.50	51.30	57.30	62.70	68.50		
80.0				20.80	26.40	32.80	40.10	43.40	48.60	53.20	58.10		
85.0					21.30	26.60	32.70	35.40	39.70	43.50	47.50		

Cond °C	Power, kW												
	-25.0	-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	10.70	11.40	11.90	12.10									
15.0	11.50	12.45	13.15	13.65	13.85								
20.0	12.20	13.35	14.30	15.05	15.55	15.75							
25.0	12.75	14.15	15.35	16.40	17.15	17.70	17.90						
30.0	13.25	14.85	16.30	17.55	18.65	19.50	20.00	20.10	20.20	20.20			
35.0	13.65	15.45	17.10	18.65	20.00	21.20	22.00	22.30	22.60	22.70	22.80		
40.0	13.95	15.90	17.85	19.65	21.30	22.70	23.90	24.30	24.80	25.20	25.40		
45.0	14.10	16.30	18.45	20.50	22.40	24.10	25.70	26.20	26.90	27.40	27.90		
50.0	14.20	16.55	18.90	21.20	23.40	25.40	27.30	28.00	28.90	29.60	30.20		
55.0		16.75	19.30	21.80	24.30	26.60	28.80	29.60	30.70	31.60	32.40		
60.0		16.80	19.55	22.30	25.00	27.60	30.10	31.10	32.40	33.50	34.50		
65.0			19.70	22.70	25.70	28.60	31.30	32.40	34.00	35.20	36.40		
70.0			19.70	22.90	26.20	29.30	32.40	33.60	35.40	36.80	38.20		
75.0				23.10	26.50	30.00	33.40	34.70	36.70	38.30	39.80		
80.0				23.10	26.80	30.50	34.20	35.60	37.80	39.60	41.30		
85.0					26.90	30.90	34.90	36.40	38.80	40.70	42.60		

Additional restrictions, please see application guidelines

50 Hz

6MK-50X

R513A

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	15.0	20.0	25.0
10.0	38.35	38.79	39.08	39.13									
15.0	38.79	39.42	39.95	40.30	40.36								
20.0	39.22	40.04	40.81	41.45	41.85	41.92							
25.0	39.62	40.63	41.64	42.56	43.30	43.77	43.86						
30.0	39.99	41.18	42.43	43.64	44.71	45.56	46.09	46.19	46.21	46.08			
35.0	40.30	41.68	43.16	44.66	46.07	47.30	48.26	48.55	48.86	49.00	49.00		
40.0	40.55	42.11	43.83	45.61	47.35	48.97	50.37	50.84	51.45	51.84	52.12		
45.0	40.72	42.47	44.43	46.49	48.56	50.56	52.39	53.05	53.95	54.60	55.15		
50.0	40.81	42.74	44.93	47.27	49.68	52.05	54.31	55.16	56.35	57.26	58.08		
55.0		42.92	45.33	47.95	50.69	53.44	56.13	57.16	58.64	59.81	60.90		
60.0		42.98	45.62	48.52	51.58	54.72	57.83	59.04	60.82	62.24	63.60		
65.0			45.78	48.96	52.35	55.86	59.40	60.80	62.86	64.54	66.17		
70.0			45.81	49.26	52.98	56.86	60.82	62.40	64.76	66.69	68.59		
75.0				49.42	53.45	57.71	62.09	63.86	66.50	68.69	70.85		
80.0				49.41	53.77	58.39	63.20	65.14	68.08	70.52	72.95		
85.0					53.90	58.90	64.12	66.25	69.47	72.17	74.86		

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	15.0	20.0	25.0
10.0	196.50	246.00	308.00	384.00									
15.0	193.50	244.00	306.00	382.00	473.00								
20.0	190.50	241.00	303.00	379.00	470.00	577.00							
25.0	186.50	237.00	300.00	376.00	466.00	573.00	698.00						
30.0	182.00	233.00	296.00	372.00	462.00	568.00	692.00	748.00	837.00	917.00			
35.0	177.50	229.00	292.00	367.00	457.00	562.00	686.00	740.00	829.00	909.00	995.00		
40.0	172.00	224.00	287.00	362.00	451.00	555.00	678.00	732.00	820.00	899.00	984.00		
45.0	166.50	218.00	281.00	355.00	444.00	547.00	669.00	722.00	809.00	888.00	973.00		
50.0	160.00	212.00	274.00	348.00	436.00	539.00	658.00	712.00	798.00	875.00	959.00		
55.0		205.00	267.00	341.00	427.00	528.00	647.00	699.00	784.00	861.00	944.00		
60.0		198.00	259.00	332.00	417.00	517.00	634.00	686.00	770.00	846.00	928.00		
65.0			250.00	322.00	406.00	504.00	619.00	671.00	753.00	828.00	909.00		
70.0			240.00	311.00	393.00	490.00	603.00	654.00	735.00	809.00	889.00		
75.0				298.00	379.00	474.00	586.00	635.00	716.00	789.00	868.00		
80.0				284.00	364.00	458.00	568.00	617.00	697.00	769.00	848.00		
85.0					350.00	443.00	553.00	603.00	683.00	756.00	836.00		

Additional restrictions, please see application guidelines

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	70
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	631
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

Additional restrictions, please see application guidelines

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

Additional restrictions, please see application guidelines