



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	59.00	74.70	93.70	116.50	143.00				
15.0	56.10	71.30	89.50	111.50	137.00				
20.0	53.20	67.80	85.30	106.00	130.50	159.00			
25.0	50.30	64.30	81.00	100.50	124.00	151.00	183.00	196.50	
30.0		60.80	76.70	95.40	117.50	143.00	173.00	186.50	208.00
35.0		57.30	72.30	90.00	110.50	135.00	163.00	175.50	196.00
40.0			68.00	84.50	104.00	126.50	153.00	165.00	184.00
45.0			63.60	79.10	97.20	118.50	143.00	154.00	172.00
50.0				73.60	90.40	110.00	133.00	143.50	160.00
55.0					83.60	101.50	123.00	132.50	147.50
60.0					76.80	93.30	112.50	121.50	

50 Hz

6MK-50X

R407F Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	16.95	17.90	18.65	18.95	18.70				
15.0	18.00	19.30	20.40	21.20	21.50				
20.0	19.05	20.70	22.20	23.40	24.20	24.30			
25.0	20.10	22.00	23.80	25.50	26.70	27.40	27.40	27.20	
30.0		23.20	25.40	27.40	29.20	30.40	31.00	31.00	30.70
35.0		24.50	26.90	29.30	31.50	33.30	34.40	34.70	34.80
40.0			28.40	31.20	33.80	36.00	37.70	38.20	38.70
45.0			29.90	33.00	35.90	38.60	40.80	41.60	42.40
50.0				34.70	38.10	41.20	43.90	44.80	46.10
55.0					40.10	43.60	46.80	48.00	49.50
60.0					42.10	46.10	49.70	51.10	

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
10.0	42.89	43.80	44.55	44.88	44.55				
15.0	43.91	45.18	46.38	47.26	47.56				
20.0	44.96	46.59	48.24	49.65	50.57	50.75			
25.0	46.02	48.01	50.10	52.04	53.58	54.46	54.43	54.10	
30.0		49.44	51.96	54.43	56.58	58.16	58.92	58.94	58.60
35.0		50.87	53.82	56.81	59.57	61.84	63.39	63.74	63.93
40.0			55.68	59.17	62.53	65.50	67.82	68.50	69.23
45.0			57.52	61.52	65.47	69.12	72.21	73.23	74.48
50.0				63.83	68.37	72.70	76.55	77.90	79.68
55.0					71.24	76.23	80.84	82.53	84.82
60.0					74.06	79.72	85.08	87.09	

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
10.0	251.00	320.00	403.00	504.00	624.00				
15.0	247.00	315.00	398.00	498.00	617.00				
20.0	242.00	310.00	392.00	491.00	609.00	750.00			
25.0	237.00	305.00	386.00	484.00	600.00	739.00	904.00	978.00	
30.0		299.00	380.00	476.00	591.00	728.00	890.00	964.00	1084.00
35.0		294.00	373.00	468.00	581.00	715.00	876.00	948.00	1067.00
40.0			366.00	459.00	570.00	702.00	861.00	932.00	1049.00
45.0			359.00	450.00	559.00	689.00	844.00	915.00	1031.00
50.0				441.00	547.00	675.00	828.00	897.00	1012.00
55.0					536.00	661.00	811.00	879.00	993.00
60.0					525.00	647.00	794.00	862.00	

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 (MT), dBA	76
Sound Power (MT), dBA	87
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	76
Sound Power (HT), dBA	87
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
Refrigerant's GWP	1825
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