



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	20.20	26.70	34.70	44.40	56.10	70.00	86.20	105.00				
15.0	18.75	25.00	32.70	42.10	53.20	66.40	81.80	99.70	120.00			
20.0	17.20	23.30	30.70	39.60	50.20	62.70	77.30	94.20	113.50	135.50	161.00	
25.0	15.55	21.50	28.60	37.00	47.10	58.80	72.60	88.60	107.00	128.00	151.50	162.00
30.0		19.65	26.40	34.40	43.80	54.90	67.80	82.80	100.00	119.50	142.00	152.00
35.0		17.75	24.20	31.70	40.50	50.80	62.90	76.90	93.00	111.50	132.50	141.50
40.0			21.90	28.90	37.10	46.70	57.80	70.80	85.80	103.00	122.50	131.00
45.0			19.55	26.00	33.60	42.40	52.70	64.60	78.50	94.40	112.50	120.50
50.0				23.10	30.10	38.10	47.50	58.40	71.00	85.60	102.50	109.50
55.0				20.20	26.50	33.70	42.20	52.00	63.50	76.80	92.10	98.80
60.0					22.90	29.30	36.80	45.60	55.80	67.80	81.60	
62.0					21.40	27.50	34.60	43.00	52.70	64.20		

50 Hz

6MI-40X

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	9.65	11.00	12.20	13.30	14.25	14.95	15.35	15.55				
15.0	9.93	11.45	12.90	14.20	15.35	16.30	17.00	17.45	17.55			
20.0	10.15	11.85	13.50	15.00	16.40	17.60	18.60	19.30	19.70	19.80	19.50	
25.0	10.25	12.15	14.00	15.75	17.40	18.85	20.10	21.10	21.80	22.20	22.30	22.20
30.0		12.40	14.45	16.45	18.30	20.00	21.50	22.80	23.80	24.60	24.90	25.00
35.0		12.60	14.85	17.05	19.15	21.10	22.90	24.50	25.80	26.80	27.50	27.70
40.0			15.20	17.60	19.95	22.20	24.20	26.10	27.70	29.10	30.10	30.40
45.0			15.40	18.05	20.70	23.10	25.50	27.60	29.50	31.20	32.60	33.00
50.0				18.45	21.30	24.00	26.60	29.10	31.30	33.30	35.00	35.60
55.0				18.80	21.90	24.90	27.70	30.50	33.00	35.30	37.40	38.10
60.0					22.40	25.60	28.80	31.80	34.60	37.30	39.70	
62.0					22.50	25.90	29.20	32.30	35.30	38.00		

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	28.62	29.75	30.90	31.99	32.97	33.75	34.27	34.45				
15.0	28.86	30.17	31.54	32.87	34.12	35.19	36.03	36.57	36.72			
20.0	29.03	30.55	32.15	33.75	35.27	36.66	37.84	38.73	39.27	39.39	39.02	
25.0	29.12	30.87	32.71	34.59	36.42	38.13	39.66	40.93	41.88	42.43	42.51	42.39
30.0		31.10	33.21	35.38	37.53	39.58	41.48	43.15	44.52	45.52	46.07	46.15
35.0		31.23	33.62	36.10	38.58	41.00	43.29	45.37	47.18	48.64	49.68	49.96
40.0			33.93	36.73	39.57	42.37	45.06	47.57	49.83	51.77	53.31	53.81
45.0			34.11	37.26	40.46	43.66	46.77	49.72	52.45	54.89	56.96	57.67
50.0				37.66	41.25	44.85	48.40	51.82	55.04	57.99	60.60	61.53
55.0				37.92	41.91	45.94	49.94	53.83	57.56	61.04	64.21	65.37
60.0					42.42	46.89	51.36	55.75	60.00	64.03	67.77	
62.0					42.57	47.23	51.89	56.49	60.95	65.20		

50 Hz

6MI-40X

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	112.50	148.50	193.50	249.00	316.00	395.00	490.00	601.00				
15.0	108.50	145.00	190.50	246.00	312.00	391.00	485.00	595.00	724.00			
20.0	104.00	141.00	186.50	242.00	308.00	386.00	479.00	589.00	716.00	865.00	1038.00	
25.0	98.60	136.50	182.00	237.00	302.00	380.00	472.00	581.00	708.00	856.00	1028.00	1105.00
30.0		131.00	177.00	231.00	296.00	373.00	465.00	572.00	698.00	845.00	1017.00	1094.00
35.0		125.00	171.00	225.00	289.00	366.00	456.00	562.00	687.00	833.00	1005.00	1082.00
40.0			164.00	218.00	281.00	357.00	446.00	551.00	675.00	820.00	992.00	1069.00
45.0			156.50	210.00	273.00	347.00	434.00	538.00	661.00	807.00	978.00	1056.00
50.0				201.00	263.00	336.00	422.00	525.00	647.00	792.00	965.00	1043.00
55.0				191.50	252.00	324.00	409.00	511.00	633.00	778.00	952.00	1032.00
60.0					241.00	312.00	397.00	498.00	620.00	767.00	945.00	
62.0					237.00	308.00	392.00	493.00	616.00	764.00		

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	219
Suction, inch	2 1/8
Discharge, inch	1 3/8
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	78
Sound Power (LT), dBA	89
Sound Power with Sound Shell (LT), dBA	73
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
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	3922
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	71.4
Locked Rotor Current, A	321
Default Enclosure Class	IP 54 (IEC 34)

### ACCESSORIES INCLUDED

Oil Pressure Switch (-P)	OPS2 Sensor
CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Discharge Shut-off	Angle valve
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	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00