



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	47.50	60.20	75.40	93.50	115.00				
15.0	45.20	57.50	72.20	89.60	110.00				
20.0	42.80	54.60	68.80	85.40	105.00	128.00			
25.0	40.40	51.80	65.30	81.20	99.80	121.50	146.50	158.00	
30.0		48.80	61.70	76.80	94.50	115.00	139.00	149.50	166.50
35.0		45.90	58.10	72.30	89.00	108.50	131.00	141.00	157.00
40.0			54.40	67.80	83.50	102.00	123.00	132.50	147.50
45.0			50.80	63.30	77.90	94.90	115.00	123.50	137.50
50.0				58.80	72.30	88.10	106.50	114.50	128.00
55.0					66.60	81.10	98.10	105.50	118.00
60.0					61.00	74.20	89.70	96.60	

50 Hz

6MI-40X

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	13.05	13.85	14.30	14.40	14.05				
15.0	14.00	15.05	15.80	16.25	16.30				
20.0	14.95	16.20	17.25	18.00	18.45	18.45			
25.0	15.85	17.30	18.65	19.70	20.50	20.90	20.90	20.80	
30.0		18.40	19.95	21.30	22.40	23.30	23.70	23.80	23.70
35.0		19.50	21.30	22.90	24.30	25.50	26.40	26.70	26.90
40.0			22.60	24.40	26.20	27.70	29.00	29.40	30.00
45.0			23.90	26.00	28.00	29.90	31.60	32.10	32.90
50.0				27.50	29.80	32.00	34.10	34.80	35.80
55.0					31.60	34.10	36.50	37.40	38.70
60.0					33.50	36.30	39.00	40.00	

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	31.54	32.37	32.88	32.97	32.53				
15.0	32.51	33.61	34.47	34.96	35.00				
20.0	33.49	34.86	36.04	36.94	37.45	37.45			
25.0	34.48	36.11	37.63	38.93	39.90	40.44	40.44	40.27	
30.0		37.39	39.23	40.92	42.35	43.42	44.03	44.11	44.06
35.0		38.69	40.85	42.93	44.82	46.42	47.61	47.95	48.30
40.0			42.51	44.97	47.31	49.43	51.21	51.81	52.56
45.0			44.20	47.04	49.83	52.46	54.83	55.68	56.83
50.0				49.16	52.39	55.53	58.47	59.57	61.12
55.0					54.99	58.64	62.16	63.51	65.45
60.0					57.65	61.80	65.89	67.48	

50 Hz

6MI-40X

R407F Dew Point

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	202.00	258.00	324.00	405.00	501.00				
15.0	199.00	254.00	321.00	400.00	496.00				
20.0	195.00	250.00	316.00	395.00	490.00	602.00			
25.0	190.50	245.00	311.00	390.00	483.00	594.00	725.00	784.00	
30.0		241.00	306.00	383.00	475.00	585.00	715.00	773.00	869.00
35.0		235.00	300.00	376.00	467.00	575.00	703.00	761.00	856.00
40.0			293.00	368.00	458.00	564.00	691.00	748.00	841.00
45.0			287.00	360.00	448.00	552.00	677.00	733.00	826.00
50.0				352.00	438.00	540.00	662.00	718.00	809.00
55.0					427.00	527.00	647.00	702.00	792.00
60.0					418.00	515.00	632.00	686.00	

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/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 (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	72
Sound Power (HT), dBA	83
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	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

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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