



Minimum Evaporating Temp. With:

- 20 °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	12.5
10.0	45.60	57.50	72.00	89.30	109.50					
15.0	43.30	54.90	68.80	85.40	105.00	127.50				
20.0	41.10	52.20	65.50	81.40	100.00	122.00	147.00			
25.0	38.70	49.40	62.10	77.20	95.00	115.50	139.50	150.00	167.00	182.00
30.0	36.40	46.60	58.70	73.00	89.80	109.50	132.00	142.00	158.00	172.50
35.0	34.00	43.70	55.20	68.60	84.50	103.00	124.50	133.50	149.00	162.50
40.0	31.60	40.80	51.60	64.20	79.00	96.30	116.50	125.50	139.50	152.50
45.0	29.20	37.90	47.90	59.70	73.50	89.70	108.50	116.50	130.00	142.00
50.0		34.90	44.30	55.20	68.00	82.90	100.00	108.00	120.50	131.50
55.0		32.00	40.60	50.60	62.30	76.00	92.00	99.10	110.50	121.00
60.0			36.90	46.00	56.60	69.00	83.60			
62.0			35.50	44.10	54.30	66.20				

50 Hz

6MI-40X

R407A Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	12.35	13.05	13.55	13.70	13.60					
15.0	13.30	14.25	15.00	15.45	15.65	15.45				
20.0	14.20	15.40	16.40	17.15	17.65	17.80	17.55			
25.0	15.05	16.45	17.70	18.75	19.55	20.00	20.20	20.10	19.90	19.55
30.0	15.80	17.45	19.00	20.30	21.40	22.20	22.70	22.80	22.80	22.70
35.0	16.50	18.40	20.20	21.80	23.20	24.40	25.20	25.40	25.70	25.80
40.0	17.15	19.30	21.30	23.30	25.00	26.50	27.60	28.00	28.50	28.80
45.0	17.75	20.10	22.40	24.60	26.70	28.50	30.00	30.60	31.30	31.80
50.0		20.90	23.50	26.00	28.30	30.50	32.40	33.10	34.00	34.70
55.0		21.70	24.50	27.30	30.00	32.40	34.70	35.60	36.70	37.60
60.0			25.50	28.60	31.50	34.40	37.00			
62.0			25.90	29.10	32.20	35.10				

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	12.5
10.0	30.89	31.54	32.02	32.22	32.05					
15.0	31.78	32.70	33.47	34.00	34.20	33.98				
20.0	32.66	33.87	34.95	35.83	36.41	36.60	36.32			
25.0	33.53	35.03	36.45	37.70	38.68	39.30	39.47	39.40	39.11	38.69
30.0	34.35	36.18	37.96	39.59	40.98	42.05	42.70	42.83	42.85	42.70
35.0	35.14	37.30	39.45	41.48	43.31	44.84	45.99	46.33	46.67	46.80
40.0	35.86	38.39	40.92	43.37	45.65	47.67	49.34	49.88	50.56	50.98
45.0	36.52	39.42	42.36	45.25	48.00	50.52	52.72	53.49	54.50	55.21
50.0		40.38	43.74	47.09	50.33	53.37	56.12	57.12	58.49	59.50
55.0		41.26	45.07	48.89	52.64	56.22	59.53	60.77	62.51	63.83
60.0			46.33	50.64	54.91	59.04	62.95			
62.0			46.80	51.32	55.80	60.16				

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
10.0	214.00	271.00	340.00	425.00	525.00					
15.0	211.00	268.00	337.00	421.00	520.00	638.00				
20.0	207.00	264.00	333.00	416.00	515.00	632.00	770.00			
25.0	203.00	260.00	329.00	411.00	509.00	625.00	761.00	823.00	922.00	1013.00
30.0	198.50	255.00	323.00	405.00	502.00	616.00	752.00	813.00	911.00	1002.00
35.0	194.00	250.00	318.00	398.00	494.00	607.00	741.00	801.00	899.00	989.00
40.0	189.00	245.00	312.00	391.00	485.00	597.00	729.00	789.00	886.00	975.00
45.0	184.00	239.00	305.00	383.00	475.00	585.00	716.00	775.00	872.00	960.00
50.0		234.00	298.00	374.00	465.00	573.00	702.00	761.00	856.00	944.00
55.0		228.00	291.00	365.00	454.00	560.00	688.00	745.00	840.00	928.00
60.0			284.00	356.00	443.00	547.00	672.00			
62.0			281.00	353.00	438.00	541.00				

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	73
Sound Power (MT), dBA	84
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	73
Sound Power (HT), dBA	84
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	2107
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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