



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

50 Hz

6MI-40X

R450A Dew Point

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	23.90	30.00	37.70	47.10									
15.0	22.80	28.80	36.20	45.20	56.00								
20.0	21.60	27.40	34.60	43.20	53.60	65.70							
25.0	20.40	26.00	32.90	41.20	51.00	62.70	76.20						
30.0	19.20	24.60	31.10	39.00	48.40	59.50	72.40	78.10	87.30	95.50			
35.0	17.95	23.10	29.30	36.80	45.80	56.30	68.50	73.90	82.50	90.30	98.70		
40.0	16.65	21.50	27.50	34.60	43.00	52.90	64.50	69.60	77.70	85.10	92.90		
45.0	15.30	19.95	25.60	32.30	40.20	49.50	60.40	65.20	72.90	79.80	87.10		
50.0	14.00	18.35	23.60	29.90	37.40	46.10	56.20	60.70	67.90	74.30	81.20		
55.0		16.80	21.70	27.60	34.50	42.60	52.00	56.20	62.80	68.80	75.20		
60.0		15.20	19.75	25.20	31.60	39.00	47.70	51.60	57.70	63.30	69.20		
65.0			17.80	22.80	28.60	35.50	43.40	47.00	52.60	57.70	63.10		
70.0			15.85	20.40	25.70	31.90	39.10	42.30	47.40	52.00	57.00		
75.0				17.95	22.70	28.30	34.80	37.60	42.20	46.40	50.80		
80.0				15.55	19.75	24.70	30.40	33.00	37.00	40.70	44.60		
85.0					16.80	21.10	26.10	28.30	31.80	35.00	38.50		

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	6.95	7.31	7.49	7.47									
15.0	7.43	7.94	8.31	8.50	8.47								
20.0	7.87	8.53	9.08	9.47	9.67	9.63							
25.0	8.27	9.07	9.78	10.35	10.80	11.00	10.95						
30.0	8.62	9.56	10.45	11.20	11.85	12.30	12.50	12.55	12.50	12.35			
35.0	8.93	9.98	11.00	11.95	12.80	13.50	13.95	14.10	14.20	14.25	14.20		
40.0	9.18	10.35	11.50	12.65	13.70	14.60	15.35	15.55	15.85	16.05	16.15		
45.0	9.37	10.65	11.95	13.25	14.50	15.60	16.60	16.95	17.40	17.70	17.95		
50.0	9.51	10.90	12.35	13.75	15.20	16.50	17.75	18.20	18.80	19.25	19.70		
55.0		11.05	12.60	14.20	15.80	17.35	18.80	19.35	20.10	20.70	21.30		
60.0		11.15	12.85	14.55	16.30	18.05	19.70	20.40	21.30	22.00	22.70		
65.0			12.95	14.80	16.75	18.65	20.50	21.30	22.30	23.20	24.00		
70.0			13.00	15.00	17.05	19.15	21.20	22.10	23.30	24.30	25.20		
75.0				15.05	17.25	19.50	21.80	22.70	24.10	25.20	26.30		
80.0				15.00	17.35	19.80	22.30	23.30	24.70	26.00	27.20		
85.0					17.35	19.95	22.60	23.70	25.30	26.60	28.00		

50 Hz

6MI-40X

R450A Dew Point

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	26.28	26.66	26.85	26.79									
15.0	26.63	27.13	27.48	27.63	27.51								
20.0	26.97	27.59	28.10	28.45	28.58	28.43							
25.0	27.30	28.02	28.69	29.24	29.61	29.75	29.59						
30.0	27.61	28.44	29.25	29.99	30.60	31.02	31.18	31.16	31.03	30.82			
35.0	27.90	28.82	29.77	30.70	31.54	32.23	32.72	32.84	32.93	32.92	32.82		
40.0	28.14	29.16	30.25	31.35	32.42	33.38	34.18	34.44	34.76	34.94	35.05		
45.0	28.34	29.44	30.67	31.95	33.24	34.46	35.57	35.97	36.50	36.88	37.19		
50.0	28.50	29.68	31.02	32.48	33.98	35.46	36.87	37.40	38.15	38.72	39.23		
55.0		29.85	31.31	32.93	34.64	36.38	38.08	38.75	39.70	40.46	41.17		
60.0		29.94	31.52	33.30	35.21	37.20	39.20	39.99	41.15	42.09	43.00		
65.0			31.65	33.58	35.69	37.91	40.20	41.12	42.49	43.61	44.71		
70.0			31.68	33.76	36.06	38.52	41.09	42.13	43.70	45.00	46.29		
75.0				33.83	36.32	39.01	41.86	43.02	44.79	46.27	47.75		
80.0				33.79	36.46	39.38	42.49	43.78	45.74	47.39	49.05		
85.0					36.48	39.62	42.99	44.40	46.55	48.37	50.22		

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	121.00	152.50	192.00	241.00									
15.0	119.50	151.50	191.00	239.00	298.00								
20.0	118.00	150.00	189.50	238.00	296.00	365.00							
25.0	116.00	148.00	187.50	235.00	293.00	362.00	443.00						
30.0	113.50	145.50	185.00	233.00	290.00	358.00	439.00	475.00	533.00	585.00			
35.0	110.50	142.50	182.00	229.00	286.00	354.00	434.00	469.00	527.00	579.00	636.00		
40.0	107.50	139.50	178.50	226.00	282.00	349.00	428.00	463.00	521.00	573.00	629.00		
45.0	104.00	135.50	174.50	221.00	277.00	343.00	422.00	457.00	513.00	565.00	620.00		
50.0	99.90	131.50	170.00	216.00	272.00	337.00	414.00	449.00	505.00	556.00	611.00		
55.0		127.00	165.00	211.00	265.00	330.00	406.00	440.00	496.00	546.00	600.00		
60.0		122.50	160.00	205.00	258.00	322.00	397.00	431.00	485.00	535.00	589.00		
65.0			154.00	198.00	251.00	313.00	387.00	420.00	474.00	523.00	576.00		
70.0			147.50	190.50	242.00	303.00	376.00	408.00	461.00	509.00	562.00		
75.0				182.50	233.00	292.00	363.00	395.00	447.00	495.00	546.00		
80.0				173.50	222.00	280.00	350.00	381.00	432.00	479.00	530.00		
85.0					211.00	267.00	335.00	366.00	416.00	463.00	513.00		

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 Power with Sound Shell (MT), dBA	68
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	605
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