



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MI-40X

R134a

Cond °C	Cooling Capacity, kW											
	-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	37.00	46.50	58.10									
15.0	34.80	43.90	55.00	68.40								
20.0	32.80	41.40	52.00	64.60	79.70							
25.0	30.70	39.00	49.00	61.00	75.20	91.90	99.40					
30.0	28.70	36.50	46.00	57.30	70.80	86.60	93.60	105.00	115.50			
35.0	26.70	34.10	43.10	53.80	66.40	81.30	87.90	98.60	108.50	118.50		
40.0	24.80	31.80	40.20	50.20	62.10	76.00	82.30	92.30	101.50	111.00		
45.0	22.90	29.50	37.40	46.70	57.80	70.90	76.70	86.00	94.50	103.50		
50.0	21.00	27.20	34.60	43.30	53.60	65.70	71.10	79.90	87.70	96.20		
55.0	19.20	25.00	31.80	39.90	49.50	60.70	65.70	73.70	81.00	88.90		
60.0		22.80	29.10	36.60	45.40	55.70	60.30	67.70	74.40	81.60		
65.0			26.40	33.30	41.30	50.70	54.90	61.70	67.80	74.40		
70.0			23.80	30.00	37.30	45.80	49.60	55.70	61.30	67.20		
75.0				26.80	33.30	41.00	44.40	49.90	54.80	60.20		
80.0				23.60	29.40	36.20	39.20	44.00	48.50	53.20		

Cond °C	Power, kW											
	-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	8.39	8.73	8.89									
15.0	9.16	9.67	10.05	10.20								
20.0	9.85	10.55	11.10	11.45	11.60							
25.0	10.50	11.30	12.05	12.65	13.05	13.20	13.15					
30.0	11.05	12.05	13.00	13.80	14.40	14.80	14.90	14.90	14.85			
35.0	11.55	12.70	13.80	14.85	15.70	16.35	16.55	16.75	16.80	16.80		
40.0	12.00	13.30	14.60	15.80	16.90	17.80	18.10	18.45	18.70	18.85		
45.0	12.40	13.85	15.30	16.70	18.00	19.15	19.55	20.10	20.50	20.80		
50.0	12.75	14.35	15.95	17.55	19.05	20.50	21.00	21.70	22.20	22.60		
55.0	13.05	14.80	16.55	18.35	20.10	21.70	22.30	23.10	23.80	24.40		
60.0		15.15	17.10	19.05	21.00	22.80	23.50	24.60	25.30	26.10		
65.0			17.60	19.75	21.90	23.90	24.70	25.90	26.80	27.70		
70.0			18.05	20.40	22.70	25.00	25.90	27.20	28.20	29.30		
75.0				20.90	23.40	25.90	26.90	28.40	29.60	30.70		
80.0				21.50	24.20	26.90	27.90	29.60	30.90	32.10		

50 Hz

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R134a

Cond °C	Current at 400 V, A											
	-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	27.42	27.76	27.92									
15.0	28.08	28.57	28.91	29.04								
20.0	28.70	29.33	29.87	30.24	30.34							
25.0	29.28	30.07	30.80	31.40	31.77	31.85	31.78					
30.0	29.82	30.76	31.69	32.52	33.17	33.57	33.64	33.62	33.50			
35.0	30.32	31.42	32.54	33.61	34.54	35.26	35.46	35.67	35.75	35.71		
40.0	30.78	32.03	33.35	34.66	35.87	36.91	37.26	37.69	37.96	38.14		
45.0	31.19	32.60	34.12	35.67	37.17	38.53	39.02	39.68	40.14	40.53		
50.0	31.55	33.13	34.85	36.64	38.42	40.11	40.74	41.62	42.29	42.88		
55.0	31.87	33.60	35.53	37.56	39.63	41.65	42.42	43.53	44.40	45.20		
60.0		34.03	36.16	38.44	40.80	43.14	44.06	45.40	46.47	47.48		
65.0			36.75	39.28	41.92	44.60	45.66	47.22	48.49	49.72		
70.0			37.28	40.06	43.00	46.00	47.21	49.01	50.48	51.92		
75.0				40.79	44.02	47.36	48.72	50.74	52.42	54.07		
80.0				41.47	45.00	48.68	50.17	52.43	54.31	56.18		

Cond °C	Suction Mass Flow, g/s											
	-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	179.50	226.00	284.00									
15.0	175.00	221.00	278.00	347.00								
20.0	170.50	216.00	273.00	341.00	422.00							
25.0	166.00	211.00	267.00	334.00	414.00	510.00	553.00					
30.0	161.50	206.00	261.00	327.00	406.00	500.00	543.00	612.00	675.00			
35.0	157.00	201.00	255.00	320.00	398.00	491.00	532.00	601.00	663.00	731.00		
40.0	152.50	196.00	249.00	313.00	389.00	481.00	522.00	589.00	650.00	717.00		
45.0	147.50	191.00	243.00	306.00	381.00	471.00	511.00	577.00	637.00	703.00		
50.0	142.50	185.50	237.00	298.00	372.00	460.00	500.00	565.00	624.00	689.00		
55.0	137.50	180.00	230.00	291.00	363.00	450.00	489.00	552.00	611.00	674.00		
60.0		174.00	224.00	283.00	354.00	439.00	477.00	539.00	597.00	660.00		
65.0			217.00	275.00	344.00	427.00	465.00	526.00	583.00	644.00		
70.0			210.00	267.00	335.00	416.00	453.00	513.00	569.00	629.00		
75.0				259.00	325.00	405.00	441.00	500.00	555.00	615.00		
80.0				251.00	316.00	394.00	430.00	488.00	542.00	601.00		

### **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	1430
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