



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

50 Hz

6MU-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
10.0	28.00	35.90	45.90	58.20					
15.0	26.70	34.20	43.80	55.60	69.70				
20.0	25.30	32.60	41.80	53.00	66.40	82.10			
25.0	24.00	30.90	39.60	50.30	63.00	78.00	95.30		
30.0	22.60	29.20	37.50	47.60	59.70	73.80	90.20	97.50	109.00
35.0	21.20	27.50	35.30	44.90	56.30	69.70	85.20	92.00	103.00
40.0	19.80	25.80	33.20	42.20	52.90	65.50	80.00	86.50	96.80
45.0	18.40	24.00	31.00	39.40	49.40	61.20	74.90	81.00	90.60
50.0	16.95	22.20	28.80	36.60	46.00	57.00	69.80	75.40	84.50
55.0		20.50	26.50	33.80	42.50	52.70	64.60	69.80	78.30
60.0		18.70	24.30	31.00	39.10	48.50	59.40	64.20	72.00
65.0			22.10	28.20	35.60	44.20	54.20	58.60	65.80
70.0			19.80	25.40	32.10	39.90	49.00	53.00	59.60
75.0				22.60	28.60	35.60	43.80	47.40	53.30
80.0				19.75	25.00	31.20	38.50	41.80	47.00
85.0					21.50	26.90	33.30	36.10	40.70

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.17	9.63	9.90	9.96					
15.0	9.62	10.30	10.80	11.10	11.20				
20.0	10.05	10.90	11.65	12.20	12.60	12.75			
25.0	10.45	11.50	12.45	13.25	13.95	14.40	14.60		
30.0	10.80	12.00	13.20	14.25	15.20	15.95	16.50	16.70	16.85
35.0	11.10	12.50	13.85	15.15	16.35	17.45	18.35	18.65	19.00
40.0	11.40	12.95	14.50	16.05	17.50	18.85	20.00	20.50	21.10
45.0	11.65	13.35	15.05	16.80	18.50	20.10	21.60	22.20	23.00
50.0	11.80	13.65	15.55	17.50	19.45	21.30	23.20	23.80	24.90
55.0		13.90	15.95	18.10	20.30	22.40	24.50	25.40	26.60
60.0		14.05	16.30	18.65	21.00	23.40	25.80	26.80	28.20
65.0			16.55	19.05	21.70	24.30	27.00	28.00	29.60
70.0			16.70	19.40	22.20	25.10	28.00	29.20	31.00
75.0				19.60	22.60	25.70	28.90	30.20	32.10
80.0				19.75	22.90	26.20	29.70	31.10	33.20
85.0					23.10	26.60	30.30	31.80	34.10

50 Hz

6MU-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
10.0	25.04	25.46	25.68	25.61					
15.0	25.36	26.00	26.50	26.77	26.74				
20.0	25.70	26.56	27.32	27.92	28.28	28.32			
25.0	26.05	27.11	28.13	29.05	29.78	30.26	30.41		
30.0	26.40	27.64	28.92	30.14	31.24	32.15	32.79	32.95	33.08
35.0	26.73	28.16	29.67	31.19	32.65	33.98	35.09	35.45	35.91
40.0	27.03	28.63	30.37	32.19	34.00	35.73	37.30	37.87	38.65
45.0	27.29	29.06	31.02	33.12	35.27	37.40	39.43	40.20	41.29
50.0	27.51	29.43	31.61	33.97	36.45	38.97	41.45	42.41	43.82
55.0		29.72	32.11	34.74	37.54	40.43	43.35	44.51	46.22
60.0		29.94	32.52	35.40	38.51	41.78	45.13	46.47	48.48
65.0			32.83	35.96	39.37	43.00	46.76	48.29	50.59
70.0			33.03	36.39	40.10	44.07	48.25	49.96	52.55
75.0				36.69	40.68	45.00	49.58	51.46	54.33
80.0				36.84	41.11	45.76	50.73	52.79	55.94
85.0					41.37	46.35	51.70	53.93	57.35

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	142.00	182.50	234.00	298.00					
15.0	140.00	180.50	232.00	295.00	371.00				
20.0	138.00	178.00	229.00	291.00	367.00	456.00			
25.0	136.00	175.50	226.00	288.00	362.00	450.00	554.00		
30.0	133.50	173.00	223.00	284.00	357.00	445.00	547.00	592.00	666.00
35.0	131.00	170.00	219.00	280.00	352.00	438.00	539.00	584.00	657.00
40.0	128.00	167.00	215.00	275.00	347.00	432.00	532.00	576.00	648.00
45.0	124.50	163.50	211.00	270.00	341.00	425.00	523.00	567.00	639.00
50.0	121.00	159.50	207.00	265.00	334.00	417.00	514.00	558.00	628.00
55.0		155.00	202.00	259.00	327.00	408.00	504.00	547.00	617.00
60.0		150.50	196.50	252.00	320.00	399.00	494.00	536.00	605.00
65.0			191.00	246.00	311.00	390.00	483.00	524.00	593.00
70.0			184.50	238.00	302.00	379.00	470.00	512.00	579.00
75.0				230.00	292.00	367.00	457.00	498.00	564.00
80.0				220.00	282.00	355.00	443.00	483.00	548.00
85.0					270.00	342.00	428.00	468.00	533.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	757/547
Height, mm	450
Net Weight, kg	225
Suction, inch	2 5/8
Discharge, inch	1 5/8
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	74
Sound Power (MT), dBA	85
Sound Power with Sound Shell (MT), dBA	69
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	75.8
Locked Rotor Current, A	306
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
Oil Pressure Switch (-P)	OPS2 Sensor
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
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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00