



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

50 Hz

6MU-40X

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	46.40	58.70	73.40					
15.0	43.40	55.10	69.00	85.70				
20.0	40.60	51.70	65.00	80.80	99.40			
25.0	38.10	48.60	61.20	76.10	93.70	114.50	123.50	
30.0	35.80	45.70	57.50	71.60	88.10	107.50	116.50	130.50
35.0	33.60	43.00	54.10	67.20	82.80	101.00	109.50	122.50
40.0	31.50	40.40	50.80	63.10	77.60	94.70	102.50	114.50
45.0	29.40	37.80	47.50	59.00	72.50	88.40	95.50	107.00
50.0	27.50	35.30	44.40	55.00	67.40	82.20	88.80	99.60
55.0	25.50	32.80	41.20	50.90	62.40	76.00	82.10	92.10
60.0		30.30	38.00	46.90	57.40	69.90	75.50	84.60
65.0			34.70	42.80	52.30	63.70	68.70	77.10
70.0			31.30	38.60	47.20	57.40	61.90	69.50
75.0				34.30	41.90	50.90	55.00	61.80
80.0				29.80	36.40	44.40	48.00	53.90

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	10.35	11.00	11.50					
15.0	11.20	12.05	12.75	13.25				
20.0	12.00	13.05	14.00	14.75	15.20			
25.0	12.75	14.05	15.20	16.15	16.95	17.40	17.50	
30.0	13.45	14.95	16.30	17.55	18.60	19.35	19.60	19.85
35.0	14.05	15.75	17.40	18.85	20.20	21.30	21.60	22.10
40.0	14.65	16.55	18.40	20.10	21.70	23.10	23.60	24.20
45.0	15.15	17.25	19.30	21.30	23.20	24.80	25.40	26.30
50.0	15.55	17.85	20.20	22.40	24.50	26.50	27.20	28.20
55.0	15.90	18.40	20.90	23.40	25.80	28.10	28.90	30.10
60.0		18.85	21.60	24.30	27.00	29.50	30.50	31.90
65.0			22.10	25.10	28.10	30.90	32.00	33.60
70.0			22.60	25.80	29.00	32.20	33.40	35.20
75.0				26.40	29.90	33.30	34.70	36.70
80.0				26.90	30.70	34.40	35.90	38.00

50 Hz

6MU-40X

R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	26.21	26.74	27.11					
15.0	26.94	27.75	28.45	28.91				
20.0	27.69	28.78	29.80	30.63	31.15			
25.0	28.44	29.82	31.16	32.35	33.28	33.84	33.94	
30.0	29.17	30.83	32.50	34.05	35.39	36.39	36.68	36.96
35.0	29.87	31.82	33.81	35.73	37.47	38.92	39.39	39.97
40.0	30.52	32.76	35.07	37.36	39.50	41.40	42.06	42.93
45.0	31.10	33.63	36.27	38.93	41.47	43.81	44.67	45.83
50.0	31.60	34.42	37.39	40.41	43.37	46.15	47.19	48.66
55.0	32.01	35.11	38.41	41.80	45.16	48.40	49.63	51.39
60.0		35.69	39.32	43.08	46.85	50.53	51.95	54.01
65.0			40.10	44.22	48.40	52.53	54.14	56.50
70.0			40.73	45.22	49.81	54.39	56.19	58.84
75.0				46.06	51.06	56.09	58.08	61.03
80.0				46.71	52.13	57.61	59.79	63.04

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	225.00	285.00	358.00					
15.0	218.00	277.00	349.00	435.00				
20.0	212.00	270.00	341.00	425.00	527.00			
25.0	206.00	264.00	333.00	416.00	516.00	634.00	688.00	
30.0	201.00	258.00	327.00	408.00	506.00	622.00	674.00	760.00
35.0	197.00	253.00	320.00	400.00	496.00	610.00	662.00	746.00
40.0	193.50	249.00	315.00	393.00	487.00	599.00	649.00	732.00
45.0	189.50	245.00	309.00	386.00	477.00	587.00	637.00	718.00
50.0	186.00	241.00	304.00	379.00	468.00	575.00	624.00	704.00
55.0	182.50	236.00	298.00	371.00	458.00	563.00	611.00	690.00
60.0		231.00	292.00	363.00	448.00	550.00	597.00	674.00
65.0			285.00	354.00	437.00	537.00	582.00	658.00
70.0			277.00	344.00	424.00	521.00	566.00	640.00
75.0				332.00	409.00	504.00	547.00	620.00
80.0				317.00	392.00	484.00	526.00	597.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /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	1430
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