



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MUD-40X 100% Loaded

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	44.40	56.60	71.40					
15.0	41.00	52.70	66.70	83.60				
20.0	38.00	49.10	62.40	78.40	97.30			
25.0	35.20	45.70	58.40	73.50	91.40	112.50	122.00	
30.0	32.70	42.60	54.50	68.80	85.70	105.50	114.50	129.00
35.0	30.30	39.70	50.90	64.30	80.20	99.10	107.50	121.50
40.0	28.00	36.90	47.40	59.90	74.90	92.60	100.50	113.50
45.0	25.90	34.20	44.00	55.70	69.60	86.30	93.80	106.00
50.0	23.80	31.60	40.70	51.50	64.50	80.10	87.10	98.60
55.0	21.70	28.90	37.30	47.40	59.40	73.90	80.40	91.20
60.0		26.30	34.00	43.20	54.30	67.70	73.70	83.80
65.0			30.60	39.00	49.10	61.40	67.00	76.30
70.0			27.20	34.70	43.90	55.10	60.30	68.80
75.0				30.40	38.60	48.70	53.40	61.20
80.0				25.80	33.10	42.10	46.30	53.40

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

6MUD-40X 100% Loaded

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	245.00	307.00	381.00					
15.0	236.00	298.00	370.00	455.00				
20.0	228.00	289.00	360.00	444.00	541.00			
25.0	221.00	281.00	351.00	434.00	530.00	640.00	689.00	
30.0	215.00	274.00	343.00	424.00	519.00	627.00	675.00	752.00
35.0	209.00	268.00	336.00	415.00	508.00	615.00	663.00	739.00
40.0	204.00	262.00	329.00	407.00	498.00	603.00	650.00	725.00
45.0	199.50	257.00	323.00	399.00	488.00	591.00	637.00	711.00
50.0	195.00	252.00	316.00	391.00	477.00	579.00	624.00	697.00
55.0	190.00	246.00	309.00	382.00	467.00	567.00	611.00	683.00
60.0		240.00	302.00	373.00	456.00	553.00	597.00	668.00
65.0			294.00	362.00	443.00	539.00	581.00	651.00
70.0			284.00	351.00	429.00	522.00	565.00	633.00
75.0				337.00	413.00	504.00	546.00	614.00
80.0				320.00	394.00	483.00	524.00	591.00

### **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	231
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
Digital Modulation	33-100%
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	304
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
Digital Driver	EC3-D23
Digital Modulation	33-66%
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Adapter Kit	For Parallel Operation
Copeland Compressor Electronic module	Modbus extension module

## MOTOR OPTIONS

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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