



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

Additional restrictions, please see application guidelines

50 Hz

6MUD-40X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	35.20								
20.0	33.80	42.40							
25.0	31.90	40.20	50.30	62.30					
30.0	30.00	38.00	47.60	59.00	72.50	88.20			
35.0	28.10	35.70	44.80	55.70	68.50	83.30	100.50	107.50	119.50
40.0	26.10	33.30	42.00	52.20	64.30	78.20	94.20	101.00	112.50
45.0	24.10	30.90	39.10	48.70	60.00	73.00	88.00	94.50	105.00
50.0	22.10	28.50	36.10	45.00	55.50	67.60	81.50	87.60	97.30
55.0		26.00	33.00	41.30	51.00	62.20	75.00	80.60	89.50
60.0		23.50	30.00	37.50	46.40	56.60	68.20	73.40	81.50
65.0			26.80	33.70	41.60	50.80	61.40	66.00	73.40
70.0			23.70	29.70	36.80	45.00	54.40	58.50	65.10
75.0				25.70	31.90	39.10	47.30	50.90	56.60
80.0				21.70	26.90	33.00	40.00	43.10	48.10
85.0					21.90	26.90	32.70	35.30	39.40

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	11.75								
20.0	12.20	13.50							
25.0	12.65	14.20	15.55	16.60					
30.0	13.05	14.80	16.40	17.75	18.85	19.65			
35.0	13.40	15.30	17.15	18.80	20.20	21.30	22.10	22.30	22.50
40.0	13.70	15.80	17.80	19.70	21.40	22.90	24.10	24.40	24.80
45.0	13.95	16.15	18.35	20.50	22.50	24.30	25.80	26.40	27.10
50.0	14.15	16.50	18.85	21.20	23.50	25.60	27.50	28.20	29.10
55.0		16.75	19.30	21.90	24.40	26.80	29.00	29.80	31.00
60.0		17.00	19.65	22.40	25.10	27.80	30.40	31.30	32.70
65.0			19.95	22.80	25.80	28.70	31.60	32.70	34.30
70.0			20.20	23.20	26.40	29.60	32.70	33.90	35.70
75.0				23.50	26.90	30.30	33.70	35.00	37.00
80.0				23.80	27.30	30.90	34.50	36.00	38.20
85.0					27.60	31.40	35.30	36.90	39.20

Additional restrictions, please see application guidelines

50 Hz

6MUD-40X

R513A

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
16.0	27.45								
20.0	27.87	29.30							
25.0	28.35	30.05	31.62	32.95					
30.0	28.78	30.73	32.62	34.34	35.76	36.76			
35.0	29.17	31.34	33.53	35.61	37.48	39.00	40.05	40.32	40.52
40.0	29.51	31.88	34.35	36.78	39.07	41.09	42.71	43.23	43.82
45.0	29.80	32.36	35.08	37.85	40.54	43.03	45.21	45.96	46.94
50.0	30.05	32.77	35.73	38.80	41.88	44.83	47.53	48.52	49.86
55.0		33.11	36.29	39.65	43.09	46.47	49.69	50.90	52.60
60.0		33.39	36.76	40.39	44.17	47.97	51.67	53.10	55.15
65.0			37.14	41.03	45.13	49.32	53.49	55.13	57.52
70.0			37.44	41.55	45.96	50.53	55.15	56.98	59.69
75.0				41.97	46.66	51.58	56.63	58.65	61.67
80.0				42.29	47.23	52.49	57.95	60.15	63.47
85.0					47.68	53.25	59.09	61.48	65.08

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
16.0	196.00								
20.0	194.00	244.00							
25.0	191.00	241.00	302.00	376.00					
30.0	187.50	238.00	299.00	372.00	459.00	561.00			
35.0	184.00	234.00	295.00	368.00	455.00	556.00	673.00	725.00	809.00
40.0	180.00	230.00	291.00	364.00	450.00	550.00	667.00	718.00	801.00
45.0	175.50	226.00	286.00	358.00	443.00	543.00	659.00	710.00	792.00
50.0	171.00	221.00	281.00	352.00	437.00	535.00	649.00	700.00	782.00
55.0		216.00	275.00	346.00	429.00	526.00	639.00	689.00	770.00
60.0		210.00	268.00	338.00	420.00	516.00	627.00	677.00	757.00
65.0			261.00	329.00	410.00	504.00	614.00	663.00	742.00
70.0			253.00	319.00	398.00	491.00	599.00	647.00	725.00
75.0				309.00	386.00	476.00	583.00	630.00	707.00
80.0				297.00	372.00	461.00	566.00	613.00	690.00
85.0					361.00	449.00	554.00	601.00	678.00

Additional restrictions, please see application guidelines

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

Number of cylinders	6
Displacement @ 50 Hz, m³/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	631
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

Additional restrictions, please see application guidelines

### 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

Additional restrictions, please see application guidelines