



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

6MU-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
10.0	37.60	46.80	58.20	71.80					
15.0	35.90	44.80	55.80	69.00	84.60				
20.0	34.10	42.70	53.30	66.00	80.90	98.40			
25.0	32.20	40.50	50.70	62.80	77.10	93.80	113.00		
30.0	30.30	38.30	48.00	59.60	73.20	89.00	107.00	115.00	128.00
35.0	28.30	36.00	45.20	56.20	69.10	84.10	101.00	109.00	121.00
40.0	26.30	33.60	42.30	52.70	64.90	79.00	95.10	102.00	113.50
45.0	24.30	31.20	39.40	49.10	60.50	73.70	88.80	95.40	106.00
50.0	22.30	28.70	36.40	45.50	56.00	68.30	82.30	88.50	98.30
55.0		26.20	33.30	41.70	51.50	62.80	75.70	81.40	90.40
60.0		23.70	30.20	37.90	46.80	57.10	68.90	74.10	82.40
65.0			27.10	34.00	42.00	51.30	62.00	66.70	74.10
70.0			23.90	30.00	37.10	45.40	54.90	59.10	65.70
75.0				26.00	32.20	39.40	47.70	51.40	57.20
80.0				21.90	27.20	33.30	40.40	43.60	48.50
85.0					22.10	27.20	33.10	35.60	39.80

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	11.00	11.85	12.35	12.50					
15.0	11.65	12.70	13.55	14.00	14.05				
20.0	12.20	13.50	14.60	15.35	15.80	15.80			
25.0	12.65	14.20	15.55	16.60	17.40	17.80	17.75		
30.0	13.05	14.80	16.40	17.75	18.85	19.65	20.00	20.00	19.90
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

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50 Hz

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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	26.77	27.62	28.12	28.15					
15.0	27.34	28.49	29.37	29.86	29.83				
20.0	27.87	29.30	30.54	31.46	31.93	31.84			
25.0	28.35	30.05	31.62	32.95	33.91	34.37	34.23		
30.0	28.78	30.73	32.62	34.34	35.76	36.76	37.22	37.23	37.03
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
10.0	200.00	250.00	311.00	385.00					
15.0	198.00	248.00	309.00	384.00	472.00				
20.0	195.50	246.00	307.00	382.00	470.00	573.00			
25.0	192.50	243.00	305.00	379.00	467.00	570.00	690.00		
30.0	189.00	240.00	302.00	376.00	463.00	566.00	686.00	739.00	824.00
35.0	185.50	236.00	298.00	372.00	459.00	561.00	680.00	733.00	817.00
40.0	181.50	232.00	294.00	367.00	454.00	555.00	673.00	725.00	809.00
45.0	177.00	228.00	289.00	362.00	448.00	548.00	665.00	717.00	800.00
50.0	172.50	223.00	284.00	356.00	441.00	540.00	656.00	707.00	790.00
55.0		217.00	277.00	349.00	433.00	531.00	645.00	696.00	778.00
60.0		212.00	271.00	341.00	424.00	520.00	633.00	683.00	764.00
65.0			263.00	332.00	413.00	509.00	620.00	669.00	749.00
70.0			255.00	322.00	402.00	495.00	605.00	654.00	732.00
75.0				311.00	389.00	481.00	588.00	636.00	714.00
80.0				300.00	376.00	466.00	572.00	619.00	697.00
85.0					364.00	453.00	559.00	607.00	685.00

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	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	631
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

Additional restrictions, please see application guidelines

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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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