



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

4MU-25X

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	25.70	32.10	40.10	49.70					
15.0	24.30	30.50	38.10	47.30	58.20				
20.0	22.90	28.90	36.20	45.00	55.30	67.30			
25.0	21.60	27.30	34.20	42.60	52.40	63.80	77.00		
30.0	20.20	25.70	32.30	40.20	49.50	60.30	72.70	78.10	86.90
35.0	18.90	24.10	30.30	37.80	46.50	56.70	68.40	73.50	81.70
40.0	17.60	22.50	28.40	35.40	43.60	53.10	64.00	68.80	76.50
45.0	16.25	20.90	26.40	32.90	40.60	49.40	59.60	64.10	71.30
50.0	14.95	19.25	24.40	30.40	37.50	45.70	55.20	59.30	65.90
55.0		17.65	22.40	28.00	34.50	42.00	50.70	54.50	60.60
60.0		16.00	20.30	25.40	31.40	38.30	46.10	49.60	55.10
65.0			18.30	22.90	28.20	34.40	41.60	44.70	49.70
70.0			16.20	20.30	25.10	30.60	36.90	39.70	44.10
75.0				17.65	21.80	26.70	32.20	34.60	38.50
80.0				15.00	18.55	22.70	27.40	29.50	32.80
85.0					15.25	18.65	22.60	24.30	27.10

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.19	7.62	7.92	8.05					
15.0	7.63	8.22	8.69	9.01	9.16				
20.0	8.04	8.77	9.41	9.92	10.25	10.45			
25.0	8.41	9.28	10.10	10.75	11.30	11.70	11.90		
30.0	8.75	9.75	10.70	11.55	12.30	12.90	13.35	13.45	13.55
35.0	9.04	10.15	11.25	12.30	13.20	14.05	14.70	14.90	15.20
40.0	9.30	10.55	11.75	12.95	14.05	15.10	16.00	16.30	16.70
45.0	9.51	10.85	12.20	13.55	14.85	16.05	17.15	17.60	18.15
50.0	9.68	11.15	12.60	14.10	15.55	16.95	18.30	18.80	19.50
55.0		11.35	12.95	14.60	16.20	17.80	19.30	19.90	20.70
60.0		11.55	13.25	15.00	16.80	18.55	20.30	20.90	21.90
65.0			13.45	15.35	17.25	19.20	21.10	21.90	23.00
70.0			13.65	15.65	17.70	19.80	21.90	22.70	23.90
75.0				15.85	18.05	20.30	22.60	23.50	24.80
80.0				16.00	18.30	20.70	23.10	24.10	25.60
85.0					18.50	21.00	23.60	24.70	26.30

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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	18.96	19.39	19.66	19.73					
15.0	19.35	19.95	20.43	20.75	20.84				
20.0	19.73	20.49	21.18	21.74	22.11	22.24			
25.0	20.09	21.02	21.90	22.70	23.34	23.78	23.96		
30.0	20.44	21.51	22.59	23.62	24.53	25.27	25.79	25.92	26.03
35.0	20.75	21.98	23.24	24.48	25.66	26.70	27.56	27.84	28.17
40.0	21.04	22.40	23.84	25.30	26.73	28.06	29.25	29.67	30.24
45.0	21.29	22.78	24.39	26.06	27.73	29.35	30.87	31.43	32.21
50.0	21.49	23.11	24.88	26.75	28.67	30.57	32.39	33.09	34.10
55.0		23.38	25.31	27.38	29.52	31.69	33.83	34.66	35.88
60.0		23.59	25.67	27.92	30.29	32.73	35.17	36.14	37.56
65.0			25.95	28.39	30.98	33.67	36.41	37.50	39.13
70.0			26.16	28.76	31.57	34.51	37.53	38.75	40.59
75.0				29.05	32.05	35.24	38.55	39.89	41.92
80.0				29.23	32.43	35.86	39.44	40.90	43.12
85.0					32.70	36.35	40.20	41.79	44.20

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	136.50	171.00	214.00	266.00					
15.0	134.00	168.50	211.00	263.00	325.00				
20.0	131.50	166.00	209.00	260.00	321.00	393.00			
25.0	129.00	163.50	206.00	257.00	317.00	388.00	471.00		
30.0	126.50	161.00	203.00	253.00	313.00	383.00	465.00	501.00	560.00
35.0	124.00	158.50	200.00	250.00	309.00	378.00	459.00	495.00	553.00
40.0	121.50	155.50	197.00	246.00	305.00	373.00	453.00	488.00	545.00
45.0	118.50	152.50	193.50	242.00	300.00	368.00	446.00	481.00	538.00
50.0	115.50	149.50	190.00	238.00	295.00	362.00	439.00	474.00	530.00
55.0		146.00	186.50	234.00	290.00	356.00	432.00	466.00	521.00
60.0		142.50	182.00	229.00	284.00	349.00	424.00	458.00	512.00
65.0			178.00	224.00	278.00	341.00	416.00	449.00	502.00
70.0			173.00	218.00	271.00	334.00	406.00	439.00	491.00
75.0				212.00	264.00	325.00	397.00	429.00	481.00
80.0				205.00	257.00	317.00	388.00	419.00	471.00
85.0					251.00	311.00	382.00	414.00	466.00

Additional restrictions, please see application guidelines

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

Number of cylinders	4
Displacement @ 50 Hz, m³/h	99.4
Bore/Stroke, mm	80.6/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	186
Suction, inch	2 1/8
Discharge, inch	1 3/8
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
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	51.9
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
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
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Capacity Control	Capacity Steps 50%
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
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

Additional restrictions, please see application guidelines