



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

4MU-25X

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	29.10	36.90	46.40					
15.0	27.70	35.20	44.40	55.40				
20.0	26.20	33.50	42.30	52.90	65.20			
25.0	24.80	31.80	40.30	50.30	62.10	75.70	81.70	
30.0	23.40	30.10	38.20	47.70	58.90	71.80	77.50	86.60
35.0	22.00	28.40	36.00	45.10	55.70	68.00	73.30	82.00
40.0	20.60	26.60	33.90	42.40	52.40	64.00	69.10	77.20
45.0	19.15	24.90	31.70	39.80	49.10	60.00	64.70	72.40
50.0	17.75	23.10	29.50	37.00	45.80	55.90	60.30	67.50
55.0	16.35	21.30	27.30	34.20	42.30	51.70	55.80	62.50
60.0		19.55	25.00	31.40	38.80	47.50	51.30	57.40
65.0			22.70	28.50	35.30	43.20	46.60	52.20
70.0			20.40	25.60	31.70	38.80	41.90	47.00
75.0				22.60	28.00	34.30	37.10	41.60
80.0				19.60	24.30	29.80	32.20	36.20

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.11	7.68	8.07					
15.0	7.59	8.26	8.77	9.12				
20.0	8.07	8.85	9.47	9.95	10.30			
25.0	8.53	9.43	10.20	10.80	11.30	11.65	11.80	
30.0	8.98	9.99	10.85	11.60	12.25	12.80	13.00	13.25
35.0	9.40	10.55	11.55	12.45	13.25	13.95	14.20	14.55
40.0	9.78	11.05	12.20	13.25	14.20	15.05	15.40	15.85
45.0	10.10	11.50	12.80	14.00	15.10	16.15	16.55	17.15
50.0	10.40	11.90	13.35	14.70	16.00	17.20	17.70	18.40
55.0	10.60	12.30	13.85	15.40	16.85	18.25	18.80	19.60
60.0		12.55	14.30	16.00	17.60	19.20	19.85	20.80
65.0			14.70	16.55	18.35	20.10	20.80	21.90
70.0			15.00	17.00	19.00	21.00	21.80	23.00
75.0				17.40	19.60	21.80	22.70	24.00
80.0				17.70	20.10	22.50	23.40	24.90

50 Hz

4MU-25X

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	18.94	19.39	19.68					
15.0	19.29	19.88	20.34	20.66				
20.0	19.69	20.43	21.06	21.56	21.93			
25.0	20.11	21.01	21.82	22.52	23.10	23.54	23.67	
30.0	20.55	21.61	22.60	23.51	24.31	24.99	25.22	25.53
35.0	20.98	22.22	23.40	24.51	25.54	26.47	26.81	27.28
40.0	21.39	22.81	24.19	25.52	26.78	27.96	28.41	29.04
45.0	21.76	23.36	24.95	26.51	28.01	29.46	30.01	30.82
50.0	22.08	23.88	25.68	27.46	29.22	30.93	31.60	32.58
55.0	22.33	24.33	26.34	28.37	30.38	32.37	33.15	34.31
60.0		24.70	26.94	29.21	31.49	33.75	34.65	36.00
65.0			27.45	29.97	32.51	35.07	36.09	37.62
70.0			27.85	30.63	33.45	36.30	37.45	39.17
75.0				31.17	34.28	37.44	38.71	40.62
80.0				31.58	34.98	38.45	39.85	41.96

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	141.00	179.50	227.00					
15.0	139.00	177.00	224.00	281.00				
20.0	136.50	175.00	222.00	278.00	345.00			
25.0	134.00	172.50	219.00	275.00	342.00	420.00	454.00	
30.0	131.50	170.00	216.00	272.00	338.00	415.00	450.00	505.00
35.0	129.00	167.00	213.00	269.00	334.00	410.00	444.00	499.00
40.0	126.50	164.00	210.00	264.00	329.00	405.00	438.00	493.00
45.0	123.50	161.00	206.00	260.00	324.00	398.00	431.00	485.00
50.0	120.50	157.50	202.00	255.00	318.00	391.00	424.00	477.00
55.0	117.00	153.50	197.50	249.00	311.00	383.00	415.00	468.00
60.0		149.50	192.00	243.00	303.00	374.00	406.00	457.00
65.0			186.50	236.00	294.00	364.00	395.00	446.00
70.0			180.00	228.00	285.00	352.00	383.00	432.00
75.0				219.00	274.00	339.00	369.00	417.00
80.0				208.00	261.00	324.00	353.00	401.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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	1430
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

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