



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

50 Hz

4MU-25X

R450A Dew Point

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	19.10	24.40	31.00	39.10					
15.0	18.20	23.30	29.60	37.40	46.60				
20.0	17.25	22.10	28.20	35.60	44.50	54.80			
25.0	16.30	21.00	26.80	33.90	42.30	52.10	63.50		
30.0	15.35	19.80	25.40	32.10	40.10	49.40	60.20	65.00	72.60
35.0	14.35	18.60	23.90	30.30	37.80	46.70	56.90	61.40	68.60
40.0	13.35	17.40	22.40	28.40	35.60	44.00	53.60	57.90	64.70
45.0	12.35	16.20	20.90	26.60	33.30	41.20	50.30	54.30	60.70
50.0	11.35	15.00	19.45	24.70	31.00	38.40	46.90	50.70	56.70
55.0		13.75	17.90	22.90	28.70	35.60	43.50	47.00	52.60
60.0		12.55	16.40	21.00	26.40	32.80	40.10	43.40	48.60
65.0			14.85	19.10	24.10	29.90	36.70	39.70	44.50
70.0			13.35	17.20	21.70	27.10	33.30	36.00	40.40
75.0				15.30	19.40	24.20	29.80	32.30	36.30
80.0				13.40	17.05	21.30	26.30	28.60	32.20
85.0					14.70	18.45	22.90	24.80	28.00

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	5.74	6.13	6.42	6.59					
15.0	6.09	6.60	7.03	7.36	7.55				
20.0	6.42	7.06	7.62	8.09	8.45	8.67			
25.0	6.73	7.48	8.17	8.79	9.32	9.71	9.96		
30.0	7.02	7.87	8.69	9.45	10.15	10.70	11.15	11.30	11.45
35.0	7.27	8.23	9.17	10.05	10.90	11.65	12.30	12.50	12.75
40.0	7.49	8.54	9.60	10.65	11.60	12.55	13.35	13.65	14.05
45.0	7.67	8.82	9.99	11.15	12.30	13.35	14.35	14.70	15.25
50.0	7.82	9.06	10.35	11.60	12.90	14.10	15.30	15.75	16.35
55.0		9.24	10.60	12.05	13.45	14.80	16.15	16.65	17.40
60.0		9.38	10.85	12.35	13.90	15.45	16.95	17.55	18.40
65.0			11.05	12.65	14.30	16.00	17.65	18.30	19.30
70.0			11.15	12.90	14.65	16.50	18.30	19.00	20.10
75.0				13.05	14.95	16.90	18.85	19.65	20.80
80.0				13.10	15.15	17.20	19.30	20.20	21.40
85.0					15.25	17.45	19.70	20.60	22.00

50 Hz

4MU-25X

R450A Dew Point

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	17.81	18.08	18.27	18.32					
15.0	18.01	18.41	18.77	19.02	19.12				
20.0	18.23	18.76	19.27	19.72	20.04	20.19			
25.0	18.45	19.11	19.78	20.41	20.95	21.35	21.56		
30.0	18.69	19.45	20.27	21.09	21.85	22.49	22.98	23.12	23.26
35.0	18.91	19.79	20.75	21.74	22.71	23.61	24.37	24.63	24.95
40.0	19.12	20.11	21.21	22.37	23.55	24.68	25.71	26.09	26.60
45.0	19.31	20.40	21.63	22.96	24.34	25.70	27.00	27.49	28.19
50.0	19.46	20.65	22.02	23.51	25.08	26.67	28.23	28.83	29.71
55.0		20.86	22.35	24.00	25.76	27.57	29.39	30.11	31.16
60.0		21.02	22.63	24.43	26.37	28.41	30.47	31.30	32.52
65.0			22.84	24.79	26.92	29.16	31.47	32.41	33.80
70.0			22.98	25.07	27.37	29.83	32.38	33.42	34.98
75.0				25.27	27.74	30.40	33.18	34.33	36.06
80.0				25.37	28.01	30.86	33.88	35.12	37.02
85.0					28.17	31.21	34.46	35.80	37.85

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	97.00	124.00	158.00	200.00					
15.0	95.60	122.50	156.50	198.00	248.00				
20.0	94.10	121.00	154.50	196.00	246.00	304.00			
25.0	92.40	119.00	152.50	193.50	243.00	301.00	369.00		
30.0	90.50	117.00	150.50	191.00	240.00	298.00	365.00	395.00	443.00
35.0	88.50	115.00	148.00	188.50	237.00	294.00	361.00	390.00	438.00
40.0	86.30	113.00	145.50	185.50	233.00	290.00	356.00	385.00	433.00
45.0	83.80	110.00	143.00	182.50	230.00	286.00	351.00	380.00	427.00
50.0	81.10	107.50	139.50	179.00	226.00	281.00	346.00	375.00	422.00
55.0		104.50	136.50	175.00	221.00	276.00	340.00	369.00	415.00
60.0		101.00	132.50	170.50	216.00	270.00	334.00	362.00	408.00
65.0			128.50	166.00	211.00	264.00	327.00	355.00	401.00
70.0			124.00	161.00	205.00	257.00	319.00	347.00	393.00
75.0				155.50	198.50	250.00	311.00	339.00	384.00
80.0				149.50	191.50	242.00	303.00	330.00	375.00
85.0					184.50	234.00	294.00	322.00	366.00

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

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /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	605
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