



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	12.75	17.00	22.40	29.10	37.20	46.90	58.40			
10.0	12.05	16.25	21.50	28.00	35.80	45.10	56.10	68.90	83.50	
15.0	11.30	15.40	20.50	26.70	34.20	43.20	53.70	65.90	79.90	95.90
20.0	10.50	14.45	19.35	25.30	32.50	41.00	51.00	62.60	76.00	91.30
25.0		13.45	18.10	23.80	30.60	38.60	48.10	59.10	71.80	86.40
30.0			16.80	22.10	28.50	36.10	45.10	55.40	67.40	81.20
35.0			15.40	20.40	26.40	33.50	41.80	51.60	62.90	75.80
40.0				18.60	24.10	30.70	38.50	47.50	58.10	70.20
45.0				16.75	21.80	27.80	35.00	43.30	53.10	64.30
50.0					19.40	24.80	31.30	39.00	47.90	
55.0					16.95	21.80	27.60	34.50		
60.0						18.65	23.70			
62.0						17.40	22.20			

50 Hz

4MU-25X

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	6.87	7.91	8.91	9.80	10.55	11.10	11.35			
10.0	6.92	8.11	9.27	10.35	11.30	12.10	12.65	12.90	12.85	
15.0	7.00	8.31	9.62	10.90	12.05	13.05	13.85	14.45	14.70	14.60
20.0	7.07	8.50	9.95	11.40	12.75	14.00	15.05	15.85	16.40	16.65
25.0		8.67	10.25	11.85	13.40	14.85	16.10	17.20	18.05	18.60
30.0			10.50	12.25	13.95	15.60	17.10	18.45	19.60	20.40
35.0			10.70	12.60	14.45	16.30	18.00	19.60	21.00	22.10
40.0				12.85	14.85	16.90	18.80	20.60	22.30	23.70
45.0				13.00	15.20	17.35	19.45	21.50	23.40	25.10
50.0					15.40	17.70	20.00	22.20	24.40	
55.0					15.45	17.90	20.40	22.80		
60.0						18.00	20.60			
62.0						17.95	20.60			

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	19.33	20.21	21.18	22.12	22.96	23.61	23.96			
10.0	19.32	20.34	21.49	22.67	23.80	24.77	25.50	25.90	25.88	
15.0	19.36	20.52	21.84	23.25	24.64	25.94	27.04	27.86	28.30	28.28
20.0	19.44	20.71	22.20	23.82	25.48	27.08	28.55	29.77	30.67	31.15
25.0		20.91	22.55	24.37	26.28	28.19	30.00	31.62	32.97	33.94
30.0			22.86	24.88	27.03	29.23	31.38	33.39	35.17	36.62
35.0			23.12	25.32	27.70	30.18	32.65	35.04	37.24	39.18
40.0				25.66	28.26	31.01	33.80	36.56	39.18	41.57
45.0				25.89	28.70	31.71	34.81	37.92	40.94	43.79
50.0					28.99	32.24	35.64	39.09	42.51	
55.0					29.10	32.59	36.28	40.07		
60.0						32.73	36.69			
62.0						32.72	36.79			

50 Hz

4MU-25X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	68.00	90.70	120.00	156.00	201.00	254.00	317.00			
10.0	66.90	90.10	119.50	156.00	201.00	254.00	317.00	392.00	478.00	
15.0	65.30	89.00	118.50	155.50	200.00	253.00	316.00	391.00	477.00	578.00
20.0	63.30	87.30	117.00	153.50	198.00	251.00	314.00	388.00	475.00	575.00
25.0		85.10	115.00	151.50	195.50	248.00	311.00	385.00	471.00	572.00
30.0			112.00	148.50	192.00	244.00	307.00	380.00	466.00	567.00
35.0			108.50	144.50	187.50	239.00	301.00	374.00	459.00	560.00
40.0				140.00	182.00	233.00	294.00	366.00	451.00	552.00
45.0				134.50	176.00	226.00	286.00	357.00	442.00	542.00
50.0					168.50	217.00	276.00	347.00	431.00	
55.0					160.50	208.00	265.00	335.00		
60.0						197.00	253.00			
62.0						192.50	248.00			

### **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 (LT), dBA	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	71
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
Sound Power with Sound Shell (MT), dBA	72
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	3922
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

<p>CoreSense Protection (-P)          Oil Pressure Switch (-P)          Mounting Parts          Copeland Compressor Electronic (-N)</p>	<p>Motor protection          OPS2 Sensor          Spring          Oil pressure, motor and discharge line temperature protection;          advanced diagnostics features and power measurement</p>
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### ACCESSORIES OPTIONAL

<p>Check Valve          Adapter Kit          Additional Cooling          Crankcase Heater          Oil Pressure Switch          Capacity Control          Sound Attenuation          Mounting Parts          Copeland Compressor Electronic module</p>	<p>For unloaded start operation          For Parallel Operation          70 W Vertical Air Flow Fan          100 W Internal          OPS2 Electronic Switch          Capacity Steps 50%          Sound Shell          Rubber          Modbus extension module</p>
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### 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	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00