



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								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	15.90	21.30	28.10	36.50	46.50	58.50	72.50	88.70	
15.0	15.00	20.20	26.70	34.70	44.30	55.70	69.00	84.40	
20.0	14.05	19.05	25.30	32.90	42.00	52.80	65.40	80.00	
25.0		17.90	23.80	31.00	39.70	49.90	61.80	75.70	91.50
30.0		16.75	22.40	29.20	37.30	47.00	58.20	71.30	86.30
35.0			20.90	27.30	35.00	44.00	54.60	66.80	81.00
40.0			19.40	25.40	32.60	41.00	50.90	62.40	75.60
45.0				23.50	30.10	38.00	47.20	57.90	70.30
50.0					27.70	35.00	43.50	53.40	64.90
55.0					25.20	31.90	39.70	48.80	59.40
60.0						28.70	35.90	44.20	
62.0						27.50	34.30	42.40	

50 Hz

4MU-25X

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	7.37	8.48	9.47	10.35	11.05	11.60	12.00	12.15	
15.0	7.74	8.97	10.10	11.15	12.05	12.80	13.40	13.85	
20.0	8.06	9.41	10.70	11.90	12.95	13.95	14.80	15.45	
25.0		9.78	11.20	12.55	13.85	15.05	16.10	17.05	17.85
30.0		10.10	11.70	13.20	14.70	16.10	17.40	18.65	19.70
35.0			12.10	13.80	15.45	17.10	18.65	20.10	21.50
40.0			12.40	14.30	16.20	18.05	19.85	21.60	23.30
45.0				14.75	16.85	18.95	21.00	23.00	25.00
50.0					17.45	19.75	22.10	24.40	26.70
55.0					18.00	20.50	23.10	25.70	28.30
60.0						21.20	24.10	26.90	
62.0						21.50	24.40	27.40	

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	19.47	20.56	21.60	22.54	23.35	23.97	24.36	24.49	
15.0	19.83	21.04	22.24	23.39	24.45	25.36	26.09	26.59	
20.0	20.15	21.49	22.86	24.23	25.54	26.76	27.83	28.72	
25.0		21.89	23.45	25.04	26.62	28.15	29.57	30.86	31.96
30.0		22.25	23.99	25.82	27.68	29.52	31.31	33.00	34.55
35.0			24.48	26.55	28.69	30.86	33.02	35.13	37.13
40.0			24.90	27.22	29.65	32.16	34.70	37.23	39.70
45.0				27.81	30.55	33.41	36.34	39.30	42.24
50.0					31.38	34.59	37.92	41.32	44.74
55.0					32.12	35.70	39.43	43.28	47.20
60.0						36.71	40.86	45.17	
62.0						37.09	41.41	45.90	

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	74.00	99.40	131.50	171.00	219.00	277.00	345.00	424.00	
15.0	72.20	97.50	129.50	168.50	216.00	273.00	340.00	418.00	
20.0	70.20	95.50	127.00	165.50	212.00	268.00	334.00	412.00	
25.0		93.30	124.50	162.50	209.00	264.00	329.00	405.00	494.00
30.0		90.80	122.00	159.50	205.00	259.00	323.00	398.00	486.00
35.0			119.00	156.00	200.00	254.00	317.00	391.00	477.00
40.0			115.50	152.00	196.00	248.00	310.00	383.00	468.00
45.0				148.00	190.50	242.00	303.00	374.00	459.00
50.0					185.00	235.00	295.00	365.00	449.00
55.0					179.00	228.00	287.00	356.00	438.00
60.0						221.00	278.00	346.00	
62.0						218.00	274.00	342.00	

### 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 (LT), dBA	74
Sound Power (LT), dBA	85
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
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	2107
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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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