



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	27.40	34.50	43.10	53.30	65.40					
15.0	26.10	32.90	41.10	50.90	62.50	76.10				
20.0	24.70	31.20	39.10	48.50	59.50	72.40	87.40			
25.0	23.20	29.50	37.00	45.90	56.40	68.70	82.90	89.20	99.30	108.50
30.0	21.80	27.70	34.90	43.30	53.30	64.90	78.40	84.30	93.90	102.50
35.0	20.30	25.90	32.70	40.60	50.00	61.00	73.70	79.40	88.40	96.50
40.0	18.80	24.10	30.40	37.90	46.70	57.00	69.00	74.30	82.80	90.50
45.0	17.30	22.30	28.20	35.10	43.30	52.90	64.10	69.10	77.10	84.30
50.0		20.40	25.90	32.30	39.90	48.80	59.20	63.80	71.30	78.00
55.0		18.60	23.60	29.50	36.40	44.60	54.20	58.50	65.40	71.60
60.0			21.30	26.60	32.90	40.40	49.10			
62.0			20.30	25.40	31.50	38.60				

50 Hz

4MH-25X

R407A Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	7.20	7.59	7.84	7.92	7.80					
15.0	7.81	8.33	8.71	8.93	8.97	8.80				
20.0	8.38	9.04	9.56	9.94	10.15	10.15	9.91			
25.0	8.89	9.70	10.40	10.90	11.30	11.45	11.40	11.35	11.15	10.90
30.0	9.35	10.30	11.15	11.85	12.40	12.80	12.95	12.95	12.85	12.70
35.0	9.73	10.85	11.90	12.80	13.50	14.10	14.45	14.50	14.55	14.55
40.0	10.05	11.35	12.55	13.65	14.60	15.35	15.95	16.10	16.30	16.40
45.0	10.25	11.80	13.20	14.50	15.65	16.60	17.40	17.65	18.00	18.20
50.0		12.10	13.75	15.25	16.60	17.85	18.85	19.20	19.70	20.00
55.0		12.35	14.20	15.95	17.55	19.00	20.30	20.70	21.40	21.80
60.0			14.60	16.55	18.40	20.10	21.70			
62.0			14.75	16.80	18.75	20.60				

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	12.5
10.0	19.12	19.48	19.73	19.84	19.77					
15.0	19.72	20.20	20.58	20.82	20.88	20.72				
20.0	20.29	20.92	21.46	21.86	22.09	22.10	21.86			
25.0	20.82	21.63	22.35	22.94	23.36	23.58	23.55	23.46	23.23	22.96
30.0	21.29	22.31	23.24	24.04	24.69	25.13	25.34	25.34	25.27	25.11
35.0	21.67	22.92	24.10	25.15	26.05	26.75	27.22	27.33	27.42	27.40
40.0	21.94	23.46	24.91	26.24	27.42	28.41	29.17	29.40	29.67	29.80
45.0	22.09	23.91	25.65	27.29	28.78	30.09	31.17	31.54	32.00	32.30
50.0		24.24	26.31	28.28	30.12	31.77	33.21	33.71	34.38	34.87
55.0		24.43	26.86	29.20	31.40	33.43	35.25	35.91	36.81	37.49
60.0			27.29	30.02	32.62	35.05	37.28			
62.0			27.42	30.31	33.08	35.69				

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	12.5
10.0	129.00	162.50	204.00	254.00	313.00					
15.0	126.50	160.50	201.00	251.00	310.00	380.00				
20.0	124.50	158.00	198.50	248.00	306.00	376.00	458.00			
25.0	121.50	155.00	195.50	244.00	302.00	371.00	452.00	489.00	548.00	602.00
30.0	119.00	152.00	192.00	240.00	298.00	366.00	446.00	483.00	541.00	595.00
35.0	115.50	148.50	188.00	236.00	292.00	360.00	440.00	475.00	534.00	587.00
40.0	112.50	145.00	184.00	231.00	287.00	353.00	432.00	468.00	526.00	579.00
45.0	109.00	141.00	179.50	225.00	280.00	346.00	424.00	459.00	517.00	570.00
50.0		136.50	174.50	219.00	273.00	338.00	415.00	450.00	507.00	560.00
55.0		132.00	169.00	213.00	266.00	329.00	405.00	440.00	497.00	549.00
60.0			163.50	206.00	258.00	320.00	395.00			
62.0			161.00	203.00	254.00	316.00				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	187
Suction, inch	2 1/8
Discharge, inch	1 1/8
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	70
Sound Power (MT), dBA	81
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	70
Sound Power (HT), dBA	81
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	41.6
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

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