



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	28.60	36.20	45.50	56.50	69.40				
15.0	27.10	34.50	43.30	53.90	66.30				
20.0	25.50	32.70	41.20	51.20	63.10	76.90			
25.0	24.00	30.90	39.00	48.60	59.80	73.00	88.20	94.90	
30.0		29.00	36.80	45.90	56.60	69.00	83.40	89.80	100.00
35.0		27.20	34.50	43.10	53.20	65.00	78.60	84.60	94.30
40.0			32.30	40.40	49.90	60.90	73.70	79.40	88.50
45.0			30.00	37.60	46.50	56.80	68.80	74.10	82.70
50.0				34.80	43.10	52.70	63.90	68.80	76.80
55.0					39.60	48.50	58.90	63.50	70.90
60.0					36.20	44.30	53.80	58.10	

50 Hz

4MH-25X

R407F Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.92	8.32	8.54	8.56	8.38				
15.0	8.47	9.04	9.43	9.62	9.62				
20.0	8.95	9.70	10.25	10.65	10.85	10.80			
25.0	9.37	10.30	11.05	11.65	12.00	12.20	12.10	12.00	
30.0		10.85	11.80	12.60	13.20	13.55	13.70	13.70	13.60
35.0		11.35	12.50	13.50	14.30	14.90	15.30	15.35	15.40
40.0			13.15	14.40	15.40	16.25	16.85	17.00	17.20
45.0			13.75	15.20	16.50	17.55	18.40	18.70	19.00
50.0				16.00	17.50	18.85	19.95	20.30	20.80
55.0					18.50	20.10	21.50	21.90	22.60
60.0					19.45	21.30	22.90	23.50	

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	19.71	20.12	20.37	20.41	20.21				
15.0	20.28	20.87	21.30	21.53	21.52				
20.0	20.80	21.59	22.22	22.66	22.87	22.82			
25.0	21.26	22.26	23.13	23.81	24.26	24.46	24.36	24.22	
30.0		22.89	24.01	24.95	25.68	26.15	26.33	26.31	26.18
35.0		23.46	24.86	26.08	27.11	27.88	28.37	28.47	28.53
40.0			25.65	27.20	28.54	29.64	30.46	30.70	30.96
45.0			26.40	28.27	29.96	31.41	32.59	32.98	33.46
50.0				29.31	31.36	33.19	34.75	35.29	36.01
55.0					32.73	34.96	36.93	37.64	38.61
60.0					34.07	36.72	39.12	40.01	

50 Hz

4MH-25X

R407F Dew Point

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	121.50	155.00	195.50	244.00	303.00				
15.0	119.00	152.50	192.50	241.00	299.00				
20.0	116.00	149.50	189.50	237.00	294.00	362.00			
25.0	113.00	146.50	186.00	233.00	290.00	357.00	436.00	471.00	
30.0		143.00	182.00	229.00	285.00	351.00	429.00	464.00	522.00
35.0		139.50	178.00	224.00	279.00	344.00	422.00	457.00	514.00
40.0			174.00	219.00	273.00	338.00	414.00	449.00	505.00
45.0			169.50	214.00	267.00	330.00	406.00	440.00	496.00
50.0				209.00	261.00	323.00	397.00	431.00	486.00
55.0					254.00	315.00	388.00	422.00	477.00
60.0					248.00	307.00	380.00	413.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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	69
Sound Power (MT), dBA	80
Sound Power with Sound Shell (MT), dBA	69
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	69
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	1825
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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