



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

Cond °C	Cooling Capacity, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	11.95	15.85	20.70	26.50	33.50	41.80	51.50	62.70				
15.0	10.95	14.75	19.40	25.00	31.70	39.60	48.80	59.50	71.80			
20.0	9.93	13.60	18.10	23.40	29.80	37.30	46.10	56.20	67.90	81.10	96.20	
25.0	8.86	12.45	16.70	21.80	27.80	34.90	43.20	52.80	63.90	76.40	90.70	96.90
30.0		11.20	15.30	20.10	25.80	32.50	40.30	49.30	59.70	71.60	85.10	91.00
35.0		9.98	13.85	18.40	23.70	30.00	37.30	45.80	55.50	66.70	79.40	84.90
40.0			12.40	16.65	21.60	27.50	34.30	42.20	51.30	61.70	73.60	78.80
45.0			10.90	14.85	19.45	24.90	31.10	38.50	46.90	56.60	67.70	72.60
50.0				13.05	17.30	22.20	28.00	34.70	42.50	51.40	61.70	66.20
55.0				11.20	15.05	19.55	24.80	30.90	38.00	46.20	55.70	59.80
60.0					12.85	16.85	21.60	27.00	33.50	40.90	49.50	
62.0					11.95	15.80	20.30	25.50	31.60	38.80		

50 Hz

4MH-25X

R404A Dew Point

Cond °C	Power, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	5.78	6.58	7.33	7.98	8.51	8.86	9.00	8.89				
15.0	5.97	6.86	7.73	8.52	9.20	9.72	10.05	10.15	9.95			
20.0	6.07	7.07	8.05	8.98	9.81	10.50	11.00	11.30	11.35	11.10	10.45	
25.0	6.10	7.20	8.30	9.37	10.35	11.20	11.90	12.40	12.70	12.65	12.30	12.05
30.0		7.25	8.48	9.68	10.80	11.85	12.75	13.45	13.95	14.15	14.10	13.95
35.0		7.23	8.58	9.92	11.20	12.45	13.50	14.45	15.15	15.65	15.80	15.80
40.0			8.61	10.10	11.55	12.95	14.25	15.35	16.30	17.05	17.50	17.55
45.0			8.58	10.20	11.85	13.40	14.90	16.25	17.40	18.40	19.10	19.30
50.0				10.25	12.05	13.80	15.50	17.05	18.45	19.70	20.70	21.00
55.0				10.25	12.20	14.15	16.05	17.80	19.45	20.90	22.20	22.60
60.0					12.30	14.45	16.50	18.55	20.40	22.10	23.70	
62.0					12.35	14.55	16.70	18.80	20.80	22.60		

Cond °C	Current at 400 V, A											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	18.13	18.75	19.39	20.00	20.51	20.86	21.01	20.89				
15.0	18.30	19.04	19.81	20.56	21.23	21.76	22.11	22.20	21.99			
20.0	18.38	19.24	20.15	21.06	21.91	22.64	23.20	23.53	23.56	23.25	22.53	
25.0	18.34	19.34	20.42	21.51	22.55	23.50	24.28	24.86	25.16	25.13	24.71	24.42
30.0		19.34	20.60	21.88	23.14	24.31	25.34	26.18	26.76	27.03	26.93	26.78
35.0		19.23	20.67	22.17	23.65	25.07	26.37	27.49	28.37	28.95	29.19	29.17
40.0			20.64	22.36	24.09	25.77	27.35	28.77	29.96	30.88	31.47	31.59
45.0			20.48	22.45	24.44	26.40	28.28	30.01	31.54	32.80	33.76	34.03
50.0				22.42	24.69	26.95	29.14	31.20	33.08	34.71	36.05	36.48
55.0				22.26	24.83	27.40	29.92	32.33	34.58	36.59	38.33	38.93
60.0					24.85	27.75	30.62	33.39	36.02	38.43	40.59	
62.0					24.82	27.86	30.87	33.79	36.58	39.16		

50 Hz

4MH-25X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	66.40	88.30	115.50	148.50	188.50	236.00	293.00	359.00				
15.0	63.50	85.60	113.00	146.00	186.00	233.00	290.00	355.00	432.00			
20.0	60.00	82.50	110.00	143.00	182.50	230.00	286.00	351.00	428.00	517.00	621.00	
25.0	56.10	79.00	106.50	139.50	179.00	226.00	281.00	346.00	423.00	512.00	615.00	661.00
30.0		74.90	102.50	135.50	174.50	221.00	276.00	341.00	417.00	506.00	609.00	656.00
35.0		70.40	98.10	131.00	169.50	216.00	270.00	335.00	410.00	499.00	603.00	649.00
40.0			93.00	125.50	164.00	210.00	264.00	328.00	403.00	492.00	596.00	643.00
45.0			87.40	120.00	158.00	203.00	257.00	320.00	395.00	484.00	589.00	636.00
50.0				113.50	151.00	196.00	249.00	312.00	387.00	476.00	582.00	630.00
55.0				106.00	143.50	188.00	241.00	304.00	379.00	468.00	576.00	625.00
60.0					136.00	180.00	232.00	296.00	371.00	463.00	573.00	
62.0					132.50	176.50	229.00	293.00	369.00	462.00		

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 (LT), dBA	75
Sound Power (LT), dBA	86
Sound Power with Sound Shell (LT), dBA	72
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	69
Sound Power (MT), dBA	80
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	3922
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

<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