



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

4MH-25X

R134a

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	21.40	26.80	33.50									
15.0	20.40	25.70	32.20	39.90								
20.0	19.40	24.50	30.80	38.20	47.00							
25.0	18.35	23.30	29.30	36.40	44.80	54.70	59.10					
30.0	17.30	22.00	27.70	34.60	42.60	52.00	56.20	62.90	69.00			
35.0	16.15	20.70	26.20	32.70	40.30	49.20	53.20	59.60	65.30	71.50		
40.0	15.00	19.35	24.60	30.70	37.90	46.40	50.10	56.10	61.60	67.40		
45.0	13.80	17.95	22.90	28.70	35.50	43.50	47.00	52.70	57.80	63.20		
50.0	12.60	16.55	21.20	26.70	33.10	40.50	43.80	49.10	53.90	59.00		
55.0	11.35	15.05	19.45	24.60	30.50	37.50	40.60	45.50	50.00	54.70		
60.0		13.55	17.65	22.40	28.00	34.40	37.30	41.90	46.00	50.40		
65.0			15.85	20.30	25.40	31.30	33.90	38.20	41.90	46.00		
70.0			14.00	18.05	22.70	28.20	30.60	34.40	37.90	41.60		
75.0				15.80	20.10	25.00	27.10	30.60	33.70	37.10		
80.0				13.50	17.35	21.70	23.70	26.80	29.60	32.60		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	5.14	5.31	5.33									
15.0	5.57	5.86	6.01	5.97								
20.0	5.96	6.36	6.65	6.76	6.67							
25.0	6.30	6.82	7.24	7.51	7.58	7.42	7.28					
30.0	6.61	7.24	7.78	8.20	8.45	8.48	8.42	8.24	8.02			
35.0	6.86	7.60	8.28	8.85	9.26	9.48	9.50	9.45	9.33	9.14		
40.0	7.05	7.91	8.71	9.43	10.00	10.40	10.50	10.60	10.60	10.50		
45.0	7.19	8.15	9.09	9.96	10.70	11.30	11.45	11.70	11.80	11.80		
50.0	7.27	8.34	9.40	10.40	11.35	12.10	12.35	12.70	12.90	13.05		
55.0	7.28	8.46	9.65	10.80	11.90	12.85	13.20	13.65	13.95	14.20		
60.0		8.51	9.83	11.15	12.35	13.50	13.95	14.50	14.95	15.30		
65.0			9.93	11.35	12.80	14.10	14.60	15.30	15.85	16.30		
70.0			9.95	11.55	13.10	14.60	15.20	16.00	16.65	17.25		
75.0				11.60	13.35	15.05	15.70	16.60	17.35	18.10		
80.0				11.60	13.50	15.35	16.10	17.15	18.00	18.85		

50 Hz

4MH-25X

R134a

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	17.68	17.86	17.91									
15.0	17.98	18.22	18.37	18.36								
20.0	18.27	18.60	18.85	18.96	18.87							
25.0	18.56	18.97	19.33	19.58	19.65	19.48	19.33					
30.0	18.83	19.34	19.82	20.21	20.45	20.47	20.41	20.21	19.96			
35.0	19.07	19.67	20.28	20.83	21.25	21.47	21.49	21.44	21.30	21.08		
40.0	19.25	19.97	20.72	21.42	22.03	22.46	22.57	22.66	22.66	22.57		
45.0	19.38	20.22	21.11	21.98	22.78	23.43	23.64	23.88	24.01	24.06		
50.0	19.43	20.40	21.44	22.49	23.49	24.37	24.68	25.07	25.33	25.52		
55.0	19.40	20.50	21.70	22.94	24.15	25.27	25.68	26.23	26.63	26.97		
60.0		20.51	21.88	23.31	24.74	26.11	26.62	27.33	27.88	28.37		
65.0			21.96	23.60	25.26	26.87	27.49	28.38	29.07	29.71		
70.0			21.93	23.78	25.67	27.55	28.28	29.34	30.18	30.98		
75.0				23.85	25.99	28.13	28.97	30.21	31.22	32.18		
80.0				23.79	26.18	28.60	29.56	30.99	32.15	33.28		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	103.50	130.50	164.00									
15.0	102.50	129.50	162.50	203.00								
20.0	101.00	128.00	161.50	201.00	249.00							
25.0	99.40	126.50	159.50	199.50	247.00	303.00	329.00					
30.0	97.30	124.50	157.50	197.00	244.00	301.00	326.00	367.00	404.00			
35.0	95.00	122.00	155.00	194.50	241.00	297.00	322.00	363.00	400.00	440.00		
40.0	92.20	119.50	152.00	191.50	238.00	293.00	318.00	358.00	395.00	435.00		
45.0	89.00	116.50	149.00	187.50	234.00	289.00	313.00	353.00	390.00	429.00		
50.0	85.40	112.50	145.00	183.50	229.00	284.00	308.00	347.00	383.00	423.00		
55.0	81.20	108.50	140.50	179.00	224.00	278.00	302.00	341.00	377.00	415.00		
60.0		103.50	135.50	173.50	218.00	271.00	295.00	334.00	369.00	407.00		
65.0			130.00	167.50	212.00	264.00	287.00	326.00	361.00	399.00		
70.0			123.50	160.50	204.00	256.00	279.00	317.00	351.00	389.00		
75.0				152.50	196.00	247.00	270.00	307.00	341.00	379.00		
80.0				143.50	186.50	237.00	260.00	297.00	331.00	368.00		

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	66
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	1430
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