



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°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	10.0	12.5	15.0
10.0	25.50	32.00	39.90	49.40	60.60					
15.0	24.20	30.50	38.20	47.30	58.00	70.60	85.10			
20.0	22.80	29.00	36.30	45.10	55.40	67.40	81.30	97.30		
25.0	21.40	27.40	34.40	42.80	52.60	64.10	77.40	92.60	101.00	
30.0	19.95	25.70	32.50	40.50	49.90	60.80	73.40	87.90	96.00	
35.0	18.45	24.00	30.50	38.10	47.00	57.30	69.30	83.10	90.70	
40.0	16.90	22.20	28.40	35.60	44.00	53.80	65.10	78.20	85.40	
45.0	15.30	20.40	26.30	33.10	41.00	50.20	60.90	73.20	80.00	
50.0		18.55	24.10	30.50	37.90	46.60	56.60	68.10	74.50	
55.0		16.60	21.80	27.80	34.80	42.80	52.10	62.90	68.90	
60.0			19.55	25.10	31.50	39.00	47.60	57.60	63.20	

50 Hz

4MH-25X

R407C Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
10.0	6.50	6.96	7.29	7.44	7.39					
15.0	7.16	7.73	8.16	8.43	8.50	8.35	7.94			
20.0	7.76	8.44	8.99	9.40	9.61	9.60	9.35	8.80		
25.0	8.29	9.10	9.79	10.35	10.70	10.85	10.75	10.40	10.10	
30.0	8.73	9.69	10.55	11.25	11.80	12.10	12.20	12.05	11.85	
35.0	9.09	10.20	11.20	12.10	12.80	13.35	13.65	13.65	13.55	
40.0	9.35	10.65	11.85	12.90	13.80	14.55	15.05	15.30	15.35	
45.0	9.51	11.00	12.40	13.65	14.80	15.75	16.45	16.95	17.10	
50.0		11.25	12.85	14.35	15.70	16.85	17.85	18.60	18.85	
55.0		11.35	13.20	14.95	16.55	17.95	19.20	20.20	20.60	
60.0			13.45	15.45	17.30	19.00	20.50	21.80	22.30	

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
10.0	18.54	18.93	19.25	19.42	19.40					
15.0	19.14	19.62	20.03	20.31	20.40	20.25	19.79			
20.0	19.71	20.30	20.83	21.25	21.50	21.50	21.21	20.56		
25.0	20.22	20.96	21.65	22.24	22.66	22.85	22.76	22.32	21.94	
30.0	20.67	21.58	22.46	23.24	23.87	24.28	24.42	24.22	23.97	
35.0	21.02	22.14	23.24	24.25	25.12	25.78	26.17	26.24	26.13	
40.0	21.25	22.62	23.96	25.24	26.37	27.32	28.00	28.37	28.41	
45.0	21.36	22.99	24.62	26.18	27.62	28.87	29.88	30.58	30.79	
50.0		23.25	25.19	27.07	28.84	30.44	31.79	32.85	33.26	
55.0		23.36	25.65	27.88	30.01	31.98	33.72	35.18	35.78	
60.0			25.97	28.59	31.12	33.49	35.64	37.52	38.34	

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0
10.0	113.00	142.00	178.00	221.00	273.00					
15.0	110.50	140.00	176.00	219.00	271.00	332.00	404.00			
20.0	108.00	138.00	173.50	217.00	268.00	328.00	400.00	484.00		
25.0	105.00	135.00	171.00	214.00	264.00	324.00	395.00	479.00	526.00	
30.0	102.00	132.00	167.50	210.00	260.00	320.00	391.00	473.00	520.00	
35.0	98.20	128.50	164.00	206.00	256.00	315.00	385.00	468.00	514.00	
40.0	94.00	124.50	160.00	202.00	251.00	310.00	379.00	461.00	507.00	
45.0	89.30	119.50	155.00	196.50	246.00	304.00	373.00	454.00	500.00	
50.0		114.50	150.00	191.00	240.00	297.00	365.00	446.00	492.00	
55.0		108.50	144.00	184.50	233.00	290.00	357.00	438.00	484.00	
60.0			137.00	177.50	225.00	282.00	349.00	429.00	475.00	

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 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 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	1774
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 Electronic Switch
Next Generation CoreSense (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 50%
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Inverter	Emerson Industrial Automation,
Mounting Parts	Unidrive M200 06 400 470
NG CoreSense module	Rubber 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	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