



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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	28.20	35.70	44.70	55.50	68.20				
15.0	26.70	34.00	42.80	53.10	65.30				
20.0	25.30	32.30	40.70	50.60	62.30	75.90			
25.0	23.80	30.50	38.60	48.10	59.20	72.20	87.20	93.70	
30.0		28.70	36.40	45.40	56.00	68.40	82.60	88.90	98.90
35.0			34.20	42.70	52.70	64.40	77.90	83.90	93.40
40.0			31.90	40.00	49.40	60.40	73.10	78.70	87.70
45.0				37.20	46.00	56.30	68.20	73.50	82.00
50.0				34.40	42.60	52.10	63.20	68.20	76.10
55.0					39.10	47.90	58.20	62.80	70.10
60.0						43.70	53.10	57.30	

50 Hz

4MHD-25X 100% Loaded

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	7.49	7.88	8.12	8.18	8.02				
15.0	8.12	8.65	9.04	9.25	9.25				
20.0	8.71	9.40	9.95	10.30	10.50	10.45			
25.0	9.26	10.10	10.85	11.40	11.75	11.90	11.80	11.65	
30.0		10.80	11.70	12.45	13.00	13.35	13.45	13.40	13.25
35.0			12.50	13.45	14.20	14.80	15.10	15.15	15.15
40.0			13.20	14.40	15.40	16.20	16.75	16.90	17.05
45.0				15.30	16.50	17.55	18.35	18.60	18.90
50.0				16.05	17.55	18.85	19.95	20.30	20.70
55.0					18.50	20.10	21.40	21.90	22.50
60.0						21.20	22.90	23.40	

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	19.29	19.68	19.95	20.02	19.85				
15.0	19.92	20.46	20.87	21.11	21.12				
20.0	20.55	21.26	21.85	22.29	22.49	22.42			
25.0	21.14	22.05	22.86	23.51	23.95	24.12	23.96	23.79	
30.0		22.81	23.85	24.75	25.45	25.89	26.01	25.96	25.76
35.0			24.82	26.00	26.98	27.72	28.14	28.22	28.21
40.0			25.72	27.20	28.50	29.56	30.33	30.54	30.74
45.0				28.35	29.99	31.40	32.53	32.89	33.31
50.0				29.41	31.42	33.21	34.73	35.25	35.91
55.0					32.76	34.96	36.89	37.58	38.51
60.0						36.62	39.00	39.87	

50 Hz

4MHD-25X 100% Loaded

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	120.00	152.50	192.50	240.00	297.00				
15.0	117.50	150.50	190.00	238.00	294.00				
20.0	115.00	147.50	187.00	234.00	291.00	357.00			
25.0	112.00	144.50	184.00	231.00	287.00	353.00	431.00	466.00	
30.0		141.50	180.00	227.00	282.00	347.00	425.00	460.00	516.00
35.0			176.00	222.00	277.00	341.00	418.00	453.00	509.00
40.0			172.00	217.00	271.00	335.00	411.00	445.00	501.00
45.0				212.00	264.00	327.00	402.00	436.00	492.00
50.0				206.00	258.00	320.00	393.00	427.00	482.00
55.0					251.00	311.00	384.00	417.00	472.00
60.0						303.00	375.00	407.00	

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	193
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
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	50-100%
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

Oil Pressure Switch (-P)	OPS2 Sensor
CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
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
Digital Modulation	50-100 %
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	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