



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								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		13.35	17.65	22.90	29.20	36.70	45.40	55.40	
15.0			16.65	21.60	27.60	34.70	42.90	52.40	
20.0			15.65	20.40	26.00	32.70	40.50	49.50	
25.0				19.10	24.40	30.70	38.10	46.60	56.40
30.0					22.90	28.80	35.70	43.70	52.90
35.0					21.30	26.80	33.30	40.80	49.40
40.0						24.80	30.90	37.90	46.00
45.0							28.50	35.00	42.50
50.0							26.10	32.10	39.10
55.0								29.20	35.60
60.0								26.30	
62.0									

50 Hz

4MFD-13X 100% Loaded

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		4.99	5.54	6.02	6.38	6.60	6.63	6.43	
15.0			5.91	6.50	6.99	7.35	7.54	7.51	
20.0			6.26	6.96	7.58	8.09	8.43	8.59	
25.0				7.40	8.16	8.81	9.32	9.65	9.77
30.0					8.70	9.50	10.20	10.70	11.00
35.0					9.20	10.15	11.00	11.70	12.20
40.0						10.80	11.80	12.70	13.40
45.0							12.55	13.65	14.55
50.0							13.25	14.50	15.65
55.0								15.35	16.70
60.0								16.15	
62.0									

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		10.33	10.97	11.56	12.03	12.31	12.31	11.99	
15.0			11.40	12.14	12.79	13.28	13.52	13.46	
20.0			11.82	12.73	13.57	14.27	14.76	14.97	
25.0				13.30	14.34	15.27	16.01	16.50	16.66
30.0					15.10	16.26	17.26	18.04	18.52
35.0					15.82	17.22	18.49	19.56	20.37
40.0						18.14	19.69	21.07	22.20
45.0							20.84	22.53	24.00
50.0							21.92	23.93	25.75
55.0								25.26	27.43
60.0								26.50	
62.0									

50 Hz

4MFD-13X 100% Loaded

R407A Dew Point

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		62.40	82.60	107.50	137.50	173.50	216.00	265.00	
15.0			80.60	105.00	134.50	170.00	211.00	260.00	
20.0			78.50	102.50	131.50	166.50	207.00	255.00	
25.0				100.00	128.50	162.50	203.00	250.00	304.00
30.0					125.50	158.50	198.00	244.00	298.00
35.0					122.00	154.50	193.00	238.00	291.00
40.0						150.00	188.00	232.00	285.00
45.0							182.50	226.00	278.00
50.0							177.00	220.00	270.00
55.0								213.00	263.00
60.0								206.00	
62.0									

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	61.7
Bore/Stroke, mm	63.5/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	183
Suction, inch	1 5/8
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	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
Digital Modulation	50-100%
Refrigerant's GWP	2107
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	30.8
Locked Rotor Current, A	105
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

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Digital Driver	EC3-D23
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
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