



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		13.60	18.10	23.60	30.20	38.10	47.30	57.90	
15.0			17.05	22.30	28.50	36.00	44.60	54.70	66.20
20.0			16.05	21.00	26.90	33.90	42.10	51.60	62.40
25.0				19.70	25.20	31.80	39.50	48.50	58.70
30.0				18.45	23.70	29.80	37.10	45.40	55.10
35.0					22.10	27.90	34.60	42.40	51.50
40.0						25.90	32.20	39.50	47.90
45.0							29.80	36.60	44.40
50.0							27.50	33.70	41.00
55.0									
60.0									

50 Hz

4MFD-13X 100% Loaded

R407F 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		5.12	5.75	6.26	6.63	6.83	6.84	6.63	
15.0			6.16	6.78	7.27	7.61	7.78	7.75	7.49
20.0			6.56	7.28	7.90	8.39	8.72	8.87	8.82
25.0				7.76	8.51	9.16	9.66	10.00	10.15
30.0				8.20	9.10	9.90	10.60	11.10	11.50
35.0					9.65	10.60	11.50	12.20	12.80
40.0						11.30	12.35	13.30	14.10
45.0							13.20	14.35	15.40
50.0							13.95	15.35	16.65
55.0									
60.0									

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		10.36	11.17	11.85	12.34	12.61	12.61	12.28	
15.0			11.69	12.51	13.17	13.64	13.87	13.81	13.42
20.0			12.20	13.17	14.02	14.71	15.18	15.40	15.31
25.0				13.82	14.87	15.78	16.52	17.03	17.26
30.0				14.43	15.70	16.86	17.87	18.68	19.26
35.0					16.49	17.91	19.21	20.35	21.28
40.0						18.93	20.54	22.01	23.30
45.0							21.82	23.64	25.32
50.0							23.05	25.24	27.30
55.0									
60.0									

50 Hz

4MFD-13X 100% Loaded

R407F 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		57.60	76.80	100.50	129.50	164.00	205.00	252.00	
15.0			74.80	98.00	126.00	160.00	199.50	246.00	301.00
20.0			72.70	95.40	123.00	156.00	194.50	240.00	294.00
25.0				92.90	119.50	152.00	190.00	235.00	287.00
30.0				90.30	116.50	148.00	185.00	229.00	280.00
35.0					113.00	143.50	180.00	223.00	273.00
40.0						139.50	175.00	217.00	266.00
45.0							170.00	210.00	258.00
50.0							164.50	204.00	251.00
55.0									
60.0									

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/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	68
Sound Power (MT), dBA	79
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	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

<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