



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		22.50	29.50	38.20	48.70	61.10	75.60	92.50	
15.0			28.10	36.40	46.40	58.20	72.10	88.20	106.50
20.0			26.70	34.60	44.10	55.30	68.50	83.80	101.50
25.0				32.80	41.70	52.40	64.90	79.50	96.30
30.0				30.90	39.40	49.50	61.30	75.10	91.00
35.0					37.00	46.50	57.70	70.70	85.70
40.0						43.60	54.00	66.30	80.40
45.0							50.40	61.80	75.10
50.0							46.60	57.30	69.70
55.0									
60.0									

50 Hz

4MUD-25X 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		8.77	9.83	10.75	11.55	12.15	12.55	12.70	
15.0			10.45	11.55	12.50	13.30	13.95	14.35	14.50
20.0			11.10	12.35	13.50	14.50	15.35	16.00	16.45
25.0				13.10	14.45	15.70	16.80	17.70	18.45
30.0				13.85	15.40	16.85	18.20	19.40	20.50
35.0					16.30	18.00	19.60	21.10	22.50
40.0						19.10	21.00	22.80	24.40
45.0							22.30	24.40	26.40
50.0							23.60	26.00	28.30
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		20.82	21.95	23.00	23.91	24.60	25.04	25.15	
15.0			22.61	23.86	25.00	25.99	26.75	27.23	27.38
20.0			23.30	24.77	26.17	27.46	28.56	29.44	30.02
25.0				25.70	27.38	28.99	30.46	31.74	32.78
30.0				26.62	28.60	30.55	32.41	34.12	35.62
35.0					29.80	32.11	34.37	36.53	38.52
40.0						33.65	36.33	38.95	41.45
45.0							38.25	41.36	44.39
50.0							40.10	43.71	47.29
55.0									
60.0									

50 Hz

4MUD-25X 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		95.20	125.50	162.50	208.00	263.00	327.00	403.00	
15.0			123.50	160.00	205.00	259.00	322.00	397.00	485.00
20.0			121.00	157.50	201.00	254.00	317.00	391.00	478.00
25.0				154.50	198.00	250.00	312.00	385.00	470.00
30.0				151.50	194.00	245.00	306.00	378.00	463.00
35.0					190.00	240.00	300.00	371.00	454.00
40.0						235.00	294.00	363.00	446.00
45.0							287.00	355.00	437.00
50.0							280.00	347.00	427.00
55.0									
60.0									

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	99.4
Bore/Stroke, mm	80.6/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	192
Suction, inch	2 1/8
Discharge, inch	1 3/8
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	73
Sound Power (MT), dBA	84
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	51.9
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
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
Adapter Kit	For Parallel Operation
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