



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		21.10	27.80	36.10	46.10	57.90	71.80	87.80	
15.0			26.40	34.30	43.80	55.10	68.30	83.50	
20.0			25.00	32.50	41.60	52.30	64.80	79.20	
25.0				30.70	39.30	49.40	61.20	74.90	90.60
30.0					37.00	46.50	57.60	70.60	85.40
35.0					34.60	43.60	54.00	66.20	80.20
40.0						40.60	50.40	61.80	74.90
45.0							46.70	57.30	69.60
50.0							43.00	52.90	64.20
55.0								48.30	58.80
60.0								43.80	
62.0									

50 Hz

4MUD-25X 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		8.48	9.47	10.35	11.05	11.60	12.00	12.15	
15.0			10.10	11.15	12.05	12.80	13.40	13.85	
20.0			10.70	11.90	12.95	13.95	14.80	15.45	
25.0				12.55	13.85	15.05	16.10	17.05	17.85
30.0					14.70	16.10	17.40	18.65	19.70
35.0					15.45	17.10	18.65	20.10	21.50
40.0						18.05	19.85	21.60	23.30
45.0							21.00	23.00	25.00
50.0							22.10	24.40	26.70
55.0								25.70	28.30
60.0								26.90	
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		20.56	21.52	22.42	23.21	23.83	24.23	24.35	
15.0			22.13	23.25	24.31	25.23	25.98	26.49	
20.0			22.74	24.09	25.41	26.65	27.74	28.64	
25.0				24.90	26.50	28.06	29.52	30.82	31.91
30.0					27.57	29.45	31.28	32.99	34.53
35.0					28.60	30.82	33.02	35.14	37.14
40.0						32.14	34.72	37.27	39.73
45.0							36.37	39.35	42.28
50.0							37.96	41.38	44.79
55.0								43.33	47.23
60.0								45.20	
62.0									

50 Hz

4MUD-25X 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		98.40	130.00	169.50	217.00	274.00	341.00	420.00	
15.0			128.00	167.00	214.00	270.00	336.00	414.00	
20.0			125.50	164.00	210.00	266.00	331.00	408.00	
25.0				161.00	207.00	261.00	326.00	401.00	489.00
30.0					203.00	256.00	320.00	394.00	481.00
35.0					198.50	251.00	313.00	387.00	473.00
40.0						245.00	307.00	379.00	464.00
45.0							300.00	371.00	454.00
50.0							292.00	362.00	444.00
55.0								352.00	434.00
60.0								343.00	
62.0									

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	74
Sound Power (MT), dBA	85
Sound Power with Sound Shell (MT), dBA	73
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	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

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