



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	10.85	14.90	20.10	26.70	34.80	44.50	55.90			
10.0	10.05	14.00	19.10	25.40	33.20	42.40	53.40	66.20	81.00	
15.0	9.16	13.00	17.90	24.00	31.30	40.20	50.60	62.90	77.00	93.30
20.0		11.95	16.60	22.40	29.40	37.70	47.70	59.30	72.80	88.30
25.0		10.80	15.20	20.60	27.20	35.10	44.50	55.50	68.30	83.20
30.0			13.70	18.80	24.90	32.30	41.10	51.50	63.70	77.70
35.0			12.15	16.85	22.50	29.40	37.60	47.30	58.70	72.00
40.0				14.85	20.10	26.40	33.90	43.00	53.60	66.10
45.0				12.80	17.50	23.20	30.10	38.50	48.30	60.00
50.0					14.90	20.00	26.30	33.80	42.90	
55.0						16.75	22.30	29.10		
60.0							13.50	18.25		
62.0								12.20	16.65	

50 Hz

4MUD-25X 100% Loaded

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	6.87	7.91	8.91	9.80	10.55	11.10	11.35			
10.0	6.92	8.11	9.27	10.35	11.30	12.10	12.65	12.90	12.85	
15.0	7.00	8.31	9.62	10.90	12.05	13.05	13.85	14.45	14.70	14.60
20.0		8.50	9.95	11.40	12.75	14.00	15.05	15.85	16.40	16.65
25.0		8.67	10.25	11.85	13.40	14.85	16.10	17.20	18.05	18.60
30.0			10.50	12.25	13.95	15.60	17.10	18.45	19.60	20.40
35.0			10.70	12.60	14.45	16.30	18.00	19.60	21.00	22.10
40.0				12.85	14.85	16.90	18.80	20.60	22.30	23.70
45.0				13.00	15.20	17.35	19.45	21.50	23.40	25.10
50.0					15.40	17.70	20.00	22.20	24.40	
55.0						17.90	20.40	22.80		
60.0						18.00	20.60			
62.0						17.95	20.60			

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	19.33	20.21	21.18	22.12	22.96	23.61	23.96			
10.0	19.32	20.34	21.49	22.67	23.80	24.77	25.50	25.90	25.88	
15.0	19.36	20.52	21.84	23.25	24.64	25.94	27.04	27.86	28.30	28.28
20.0		20.71	22.20	23.82	25.48	27.08	28.55	29.77	30.67	31.15
25.0		20.91	22.55	24.37	26.28	28.19	30.00	31.62	32.97	33.94
30.0			22.86	24.88	27.03	29.23	31.38	33.39	35.17	36.62
35.0			23.12	25.32	27.70	30.18	32.65	35.04	37.24	39.18
40.0				25.66	28.26	31.01	33.80	36.56	39.18	41.57
45.0				25.89	28.70	31.71	34.81	37.92	40.94	43.79
50.0					28.99	32.24	35.64	39.09	42.51	
55.0						32.59	36.28	40.07		
60.0						32.73	36.69			
62.0						32.72	36.79			

50 Hz

4MUD-25X 100% Loaded

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	78.30	105.00	139.00	180.50	230.00	288.00	355.00			
10.0	76.50	104.00	138.50	180.50	230.00	288.00	356.00	432.00	519.00	
15.0	73.80	102.50	137.50	179.50	229.00	287.00	354.00	431.00	517.00	615.00
20.0		99.60	135.00	177.00	227.00	285.00	352.00	428.00	515.00	612.00
25.0		96.00	131.50	174.00	223.00	281.00	348.00	424.00	510.00	608.00
30.0			127.00	169.50	219.00	276.00	342.00	418.00	505.00	602.00
35.0			122.00	163.50	212.00	269.00	335.00	411.00	497.00	595.00
40.0				156.50	205.00	261.00	326.00	401.00	487.00	586.00
45.0				148.50	195.50	251.00	315.00	390.00	476.00	575.00
50.0					185.00	239.00	303.00	377.00	463.00	
55.0						226.00	289.00	362.00		
60.0						211.00	273.00			
62.0						205.00	266.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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 (LT), dBA	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	71
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
Sound Power with Sound Shell (MT), dBA	72
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	3922
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