



Minimum Evaporating Temp. With:

— 20 °C Suction Gas Return

— Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

4MUD-25X 100% Loaded

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	27.60	35.40	45.00					
15.0	26.00	33.60	42.90	54.00				
20.0	24.50	31.80	40.70	51.30	63.80			
25.0	22.90	29.90	38.50	48.70	60.60	74.50	80.60	
30.0	21.40	28.10	36.30	46.00	57.40	70.60	76.40	85.80
35.0	19.85	26.30	34.00	43.20	54.10	66.70	72.20	81.10
40.0	18.35	24.40	31.70	40.50	50.70	62.70	68.00	76.40
45.0	16.85	22.60	29.50	37.70	47.30	58.60	63.60	71.70
50.0	15.35	20.70	27.10	34.80	43.90	54.50	59.20	66.80
55.0	13.85	18.85	24.80	31.90	40.40	50.30	54.70	61.80
60.0		16.95	22.50	29.00	36.80	46.00	50.20	56.80
65.0			20.10	26.10	33.20	41.70	45.50	51.70
70.0			17.65	23.10	29.60	37.30	40.80	46.50
75.0				20.10	25.90	32.80	36.00	41.20
80.0				17.00	22.10	28.30	31.10	35.80

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	7.11	7.68	8.07					
15.0	7.59	8.26	8.77	9.12				
20.0	8.07	8.85	9.47	9.95	10.30			
25.0	8.53	9.43	10.20	10.80	11.30	11.65	11.80	
30.0	8.98	9.99	10.85	11.60	12.25	12.80	13.00	13.25
35.0	9.40	10.55	11.55	12.45	13.25	13.95	14.20	14.55
40.0	9.78	11.05	12.20	13.25	14.20	15.05	15.40	15.85
45.0	10.10	11.50	12.80	14.00	15.10	16.15	16.55	17.15
50.0	10.40	11.90	13.35	14.70	16.00	17.20	17.70	18.40
55.0	10.60	12.30	13.85	15.40	16.85	18.25	18.80	19.60
60.0		12.55	14.30	16.00	17.60	19.20	19.85	20.80
65.0			14.70	16.55	18.35	20.10	20.80	21.90
70.0			15.00	17.00	19.00	21.00	21.80	23.00
75.0				17.40	19.60	21.80	22.70	24.00
80.0				17.70	20.10	22.50	23.40	24.90

50 Hz

4MUD-25X 100% Loaded

R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	18.94	19.39	19.68					
15.0	19.29	19.88	20.34	20.66				
20.0	19.69	20.43	21.06	21.56	21.93			
25.0	20.11	21.01	21.82	22.52	23.10	23.54	23.67	
30.0	20.55	21.61	22.60	23.51	24.31	24.99	25.22	25.53
35.0	20.98	22.22	23.40	24.51	25.54	26.47	26.81	27.28
40.0	21.39	22.81	24.19	25.52	26.78	27.96	28.41	29.04
45.0	21.76	23.36	24.95	26.51	28.01	29.46	30.01	30.82
50.0	22.08	23.88	25.68	27.46	29.22	30.93	31.60	32.58
55.0	22.33	24.33	26.34	28.37	30.38	32.37	33.15	34.31
60.0		24.70	26.94	29.21	31.49	33.75	34.65	36.00
65.0			27.45	29.97	32.51	35.07	36.09	37.62
70.0			27.85	30.63	33.45	36.30	37.45	39.17
75.0				31.17	34.28	37.44	38.71	40.62
80.0				31.58	34.98	38.45	39.85	41.96

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	153.00	192.50	240.00					
15.0	150.00	189.50	238.00	294.00				
20.0	147.00	187.00	235.00	291.00	355.00			
25.0	144.00	184.00	232.00	287.00	351.00	424.00	455.00	
30.0	140.50	180.50	228.00	284.00	347.00	419.00	450.00	500.00
35.0	137.00	177.50	225.00	280.00	343.00	414.00	445.00	494.00
40.0	133.50	173.50	221.00	275.00	337.00	408.00	439.00	488.00
45.0	130.00	169.50	216.00	270.00	331.00	402.00	432.00	481.00
50.0	125.50	165.00	211.00	264.00	325.00	394.00	424.00	472.00
55.0	121.50	160.50	205.00	258.00	318.00	386.00	416.00	463.00
60.0		155.00	199.00	250.00	309.00	376.00	406.00	453.00
65.0			192.00	242.00	300.00	366.00	395.00	441.00
70.0			184.50	233.00	289.00	354.00	382.00	428.00
75.0				222.00	277.00	340.00	368.00	413.00
80.0				211.00	263.00	325.00	352.00	397.00

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 (MT), dBA	72
Sound Power (MT), dBA	83
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	1430
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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00