



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

Additional restrictions, please see application guidelines

50 Hz

4MUD-25X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	23.80								
20.0	22.70	28.60							
25.0	21.40	27.00	33.90	42.20					
30.0	20.10	25.50	32.00	39.80	49.00	59.70			
35.0	18.75	23.90	30.10	37.40	46.10	56.10	67.70	72.80	80.90
40.0	17.45	22.30	28.10	35.00	43.10	52.60	63.40	68.10	75.70
45.0	16.15	20.70	26.20	32.60	40.20	49.00	59.00	63.50	70.50
50.0	14.85	19.10	24.20	30.20	37.20	45.30	54.60	58.70	65.30
55.0		17.50	22.20	27.70	34.20	41.60	50.20	54.00	60.00
60.0		15.85	20.20	25.20	31.10	37.90	45.70	49.10	54.60
65.0			18.15	22.70	28.00	34.10	41.10	44.20	49.20
70.0			16.05	20.10	24.80	30.30	36.50	39.30	43.70
75.0				17.50	21.60	26.40	31.90	34.30	38.10
80.0				14.85	18.40	22.50	27.20	29.20	32.50
85.0					15.10	18.50	22.40	24.10	26.80

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	7.72								
20.0	8.04	8.77							
25.0	8.41	9.28	10.10	10.75					
30.0	8.75	9.75	10.70	11.55	12.30	12.90			
35.0	9.04	10.15	11.25	12.30	13.20	14.05	14.70	14.90	15.20
40.0	9.30	10.55	11.75	12.95	14.05	15.10	16.00	16.30	16.70
45.0	9.51	10.85	12.20	13.55	14.85	16.05	17.15	17.60	18.15
50.0	9.68	11.15	12.60	14.10	15.55	16.95	18.30	18.80	19.50
55.0		11.35	12.95	14.60	16.20	17.80	19.30	19.90	20.70
60.0		11.55	13.25	15.00	16.80	18.55	20.30	20.90	21.90
65.0			13.45	15.35	17.25	19.20	21.10	21.90	23.00
70.0			13.65	15.65	17.70	19.80	21.90	22.70	23.90
75.0				15.85	18.05	20.30	22.60	23.50	24.80
80.0				16.00	18.30	20.70	23.10	24.10	25.60
85.0					18.50	21.00	23.60	24.70	26.30

Additional restrictions, please see application guidelines

50 Hz

4MUD-25X

R513A

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	19.43								
20.0	19.73	20.49							
25.0	20.09	21.02	21.90	22.70					
30.0	20.44	21.51	22.59	23.62	24.53	25.27			
35.0	20.75	21.98	23.24	24.48	25.66	26.70	27.56	27.84	28.17
40.0	21.04	22.40	23.84	25.30	26.73	28.06	29.25	29.67	30.24
45.0	21.29	22.78	24.39	26.06	27.73	29.35	30.87	31.43	32.21
50.0	21.49	23.11	24.88	26.75	28.67	30.57	32.39	33.09	34.10
55.0		23.38	25.31	27.38	29.52	31.69	33.83	34.66	35.88
60.0		23.59	25.67	27.92	30.29	32.73	35.17	36.14	37.56
65.0			25.95	28.39	30.98	33.67	36.41	37.50	39.13
70.0			26.16	28.76	31.57	34.51	37.53	38.75	40.59
75.0				29.05	32.05	35.24	38.55	39.89	41.92
80.0				29.23	32.43	35.86	39.44	40.90	43.12
85.0					32.70	36.35	40.20	41.79	44.20

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	132.50								
20.0	130.50	164.50							
25.0	128.00	162.00	204.00	254.00					
30.0	125.50	159.50	201.00	251.00	310.00	380.00			
35.0	123.00	157.00	198.00	248.00	306.00	375.00	455.00	490.00	547.00
40.0	120.50	154.00	195.00	244.00	302.00	370.00	449.00	484.00	540.00
45.0	117.50	151.50	192.00	240.00	297.00	364.00	442.00	477.00	532.00
50.0	115.00	148.00	188.50	236.00	292.00	358.00	435.00	469.00	524.00
55.0		145.00	184.50	232.00	287.00	352.00	428.00	461.00	516.00
60.0		141.50	180.50	227.00	282.00	345.00	420.00	453.00	507.00
65.0			176.50	222.00	275.00	338.00	412.00	444.00	497.00
70.0			171.50	216.00	269.00	330.00	402.00	435.00	486.00
75.0				210.00	262.00	322.00	393.00	425.00	476.00
80.0				204.00	254.00	314.00	384.00	415.00	466.00
85.0					249.00	308.00	379.00	410.00	461.00

Additional restrictions, please see application guidelines

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	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	631
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

Additional restrictions, please see application guidelines

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	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

Additional restrictions, please see application guidelines