



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return — 20 °C Suction Gas Return with add cooling
- 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	17.20	23.60	32.00	42.70	55.80	71.60	90.40			
10.0	15.70	21.90	29.90	39.90	52.30	67.20	84.90	106.00	130.00	
15.0	14.25	20.10	27.60	37.10	48.70	62.70	79.50	99.20	122.00	148.50
20.0	12.70	18.30	25.40	34.30	45.10	58.30	74.00	92.50	114.00	139.50
25.0		16.50	23.20	31.40	41.50	53.80	68.40	85.80	106.00	130.00
30.0		14.65	20.90	28.50	37.90	49.20	62.90	79.10	98.20	120.50
35.0			18.55	25.60	34.20	44.70	57.30	72.40	90.20	111.00
40.0			16.15	22.60	30.50	40.10	51.70	65.60	82.20	101.50
45.0				19.65	26.80	35.50	46.10	58.80	74.10	92.20
50.0					23.00	30.90	40.40	52.00	66.00	82.70
55.0					19.30	26.20	34.70	45.10	57.80	73.10
60.0						21.50	29.00	38.20	49.60	
62.0						19.65	26.70	35.40	46.20	

50 Hz

6MUD-40X 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	9.93	11.50	13.10	14.55	15.90	17.05	17.95			
10.0	10.25	12.00	13.70	15.35	16.90	18.30	19.45	20.30	20.80	
15.0	10.60	12.45	14.35	16.20	17.95	19.55	21.00	22.10	23.00	23.40
20.0	10.85	12.90	15.00	17.05	19.05	20.90	22.50	24.00	25.10	25.90
25.0		13.30	15.60	17.85	20.10	22.20	24.10	25.80	27.30	28.40
30.0		13.60	16.10	18.60	21.00	23.40	25.60	27.70	29.50	30.90
35.0			16.50	19.20	21.90	24.60	27.10	29.50	31.60	33.40
40.0			16.70	19.70	22.70	25.60	28.50	31.10	33.60	35.80
45.0				20.00	23.30	26.50	29.70	32.70	35.50	38.10
50.0					23.70	27.30	30.70	34.10	37.30	40.30
55.0					23.90	27.80	31.60	35.30	38.90	42.30
60.0						28.00	32.20	36.30	40.30	
62.0						28.10	32.40	36.70	40.80	

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	26.03	27.48	29.10	30.79	32.41	33.86	35.03			
10.0	26.31	27.93	29.78	31.73	33.66	35.47	37.03	38.23	38.96	
15.0	26.62	28.43	30.51	32.74	35.00	37.18	39.16	40.82	42.05	42.73
20.0	26.91	28.93	31.26	33.78	36.39	38.95	41.35	43.49	45.24	46.48
25.0		29.37	31.97	34.80	37.76	40.72	43.57	46.20	48.48	50.30
30.0		29.71	32.59	35.75	39.07	42.45	45.76	48.89	51.72	54.14
35.0			33.07	36.57	40.28	44.09	47.88	51.52	54.92	57.95
40.0			33.37	37.22	41.34	45.59	49.86	54.04	58.02	61.67
45.0				37.66	42.18	46.89	51.67	56.40	60.97	65.26
50.0					42.77	47.96	53.26	58.55	63.73	68.68
55.0					43.06	48.73	54.57	60.44	66.25	71.86
60.0						49.17	55.55	62.02	68.46	
62.0						49.24	55.84	62.56	69.26	

50 Hz

6MUD-40X 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	124.00	166.50	221.00	288.00	369.00	464.00	575.00			
10.0	119.50	162.50	217.00	283.00	363.00	457.00	566.00	691.00	833.00	
15.0	114.50	158.00	212.00	278.00	356.00	449.00	556.00	680.00	821.00	980.00
20.0	109.00	153.00	206.00	271.00	349.00	440.00	546.00	668.00	807.00	965.00
25.0		147.00	200.00	265.00	341.00	430.00	535.00	656.00	793.00	950.00
30.0		140.00	193.50	257.00	332.00	420.00	523.00	642.00	779.00	934.00
35.0			185.50	248.00	322.00	409.00	510.00	628.00	763.00	918.00
40.0			176.50	239.00	312.00	397.00	497.00	613.00	747.00	900.00
45.0				228.00	300.00	384.00	482.00	597.00	730.00	883.00
50.0					286.00	369.00	466.00	580.00	712.00	865.00
55.0					271.00	353.00	449.00	562.00	695.00	849.00
60.0						337.00	432.00	546.00	679.00	
62.0						330.00	426.00	540.00	675.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	757/547
Height, mm	450
Net Weight, kg	231
Suction, inch	2 5/8
Discharge, inch	1 5/8
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	78
Sound Power (LT), dBA	89
Sound Power with Sound Shell (LT), dBA	74
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	75
Sound Power (MT), dBA	86
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	33-100%
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	75.8
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch (-P)	OPS2 Sensor
CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
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
Digital Modulation	33-66%
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
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