

WATER ENGINEERS AUSTRALIA

Electrochlorination Equipment

OxiMax MC Series

	<u>MC1000</u>	<u>MC2500</u>	<u>MC5000</u>	<u>MC7500</u>	<u>MC12500</u>	<u>MC25000</u>	<u>MC60000</u>
Hypo output (kg/hr)	1.0	2.5	5.0	7.5	12.5	25	60
Hypo output (kg/day)	24	60	120	180	300	600	1440

Electrolyser Specifications

Series	MC1000	MC2500	MC2500	MC2500	MC2500	MC2500	MC2500
No. of Cells	1	1	2	3	5	10	24
Rated Amps	625	1500	1500	1500	1500	1500	1500
Rated Volts	8	8	16	24	40	80	192
Electrode Area (sqm)	1.10	2.48	4.96	7.44	12.40	24.80	59.52
Dimensions of Electrolyser (l x w x h) (m)	1.0 x 1.2 x 2.0	1.0 x 1.2 x 2.0	1.0 x 1.2 x 2.0	1.2 x 1.2 x 2.0	1.6 x 1.2 x 2.0	1.6 x 1.5 x 2.4	4.2 x 1.5 x 2.4
Dry Weight of Electrolyser (kg)	75	85	170	255	425	850	2210
Operating Weight of Electrolyser (kg)	100	110	220	330	550	1100	2860

Power Supply Specifications

Rated DC Power (kW)	7.5	16.8	33.6	50.4	84.0	168.0	403.2
Rated AC Power (kW)	8.8	19.7	39.5	59.2	98.8	197.6	474.3
Dimensions of Power Supply (m)	1.2 x 1.0 x 1.8	1.2 x 1.0 x 1.8	1.2 x 1.0 x 1.8	1.4 x 1.0 x 1.8	1.4 x 1.2 x 1.8	1.8 x 1.2 x 1.8	3.6 x 1.2 x 1.8
Weight of Power supply (kg)	85	100	200	300	500	1000	2600

Operating Data

DC Power Consumption (kWh/kg chlorine)	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Max. Seawater Flow (l/sec)	10	10	10	10	10	10	10
Max Hypo strength (mg/l)	2000	2000	2000	2000	2000	2000	2000
Hydrogen Produced (m3/hr)	0.6	1.3	2.6	3.9	6.4	12.9	30.9
Max. Operating Pressure (kPa)	350	350	350	350	350	350	350
Pressure Drop at max. flow (kPa)	8	8	15	23	39	77	200
Temperature Increase (C)	2	2	2	2	2	3	3