

Advanced Salt Water Sanitation




autochlor[™]
SALT WATER CHLORINATION



Autochlor™ = Saltwater + Electricity

Autochlor™ is revolutionary

National winner in the 2005 Yellow Pages Business Idea Grant and silver winner at the 2008 International Gaia Awards in Dubai for its revolutionary features, Autochlor™ is an on-site in-line chlorine generation plant capable of producing chlorine in salt water.

Autochlor™ is cost effective

Powered by Switch Mode Power supply Autochlor™ delivers 60% savings on electrical power consumption and automatically adjusts to water of any salinity.

Autochlor™ is green

Virtually eliminating the need for dangerous chemicals, Autochlor™ is a safe and environmentally friendly alternative to traditional water treatment. Green Building Scheme Pre-Assessment found this product highly likely to contribute to the achievement of Green Building rating tool credits.

Autochlor™ is versatile

Various designs developed to suit many applications. Autochlor™ can be retrofitted to any existing installation. Autochlor™ comes skid-mounted and pre-assembled for easy installation, or as a modular unit, allowing the system to be installed into confined places.

Autochlor™ is safe

Autochlor™ eliminates chemical contamination risk to the environment and operator exposure to dangerous fumes. Australian made and designed, Autochlor™ is robust, reliable and comes with a three-year warranty.



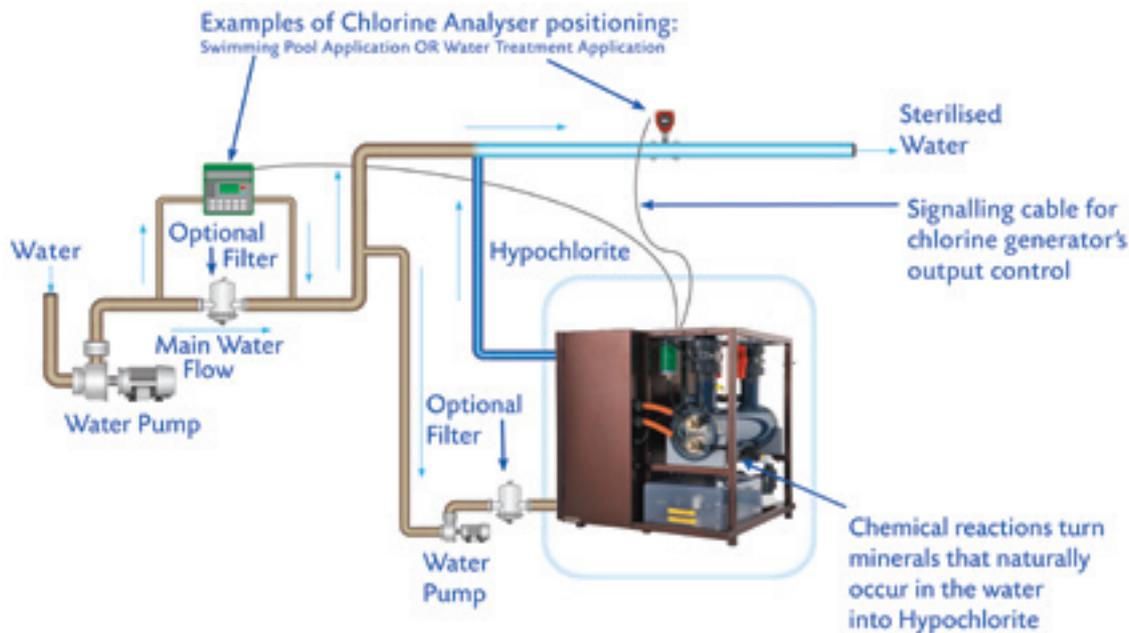
AC SERIES

Traditional Transformer Based Chlorine Generator
 Non-reverse polarity
 Salinity Range: 4,500 – 6,500 mg/L
 Input AC Power Consumption 14 W/g
 Standard Range: 5-100 g/h Output

RP SERIES

Reverse Polarity version of AC Series
 Reduced Electrode Cleaning Maintenance by up to 95%
 Salinity Range: 4,500 – 6,500 mg/L
 Input AC Power Consumption 14 W/g
 Standard Range: 5-92 g/h Output





SR/SA SERIES

Powered By Switch Mode Power Supply (SMPS)
Non-reverse polarity
Salinity Range: 3,000 – 360,000 mg/L
Input AC Power Consumption 6 kWh/kg
Standard Range: 100-18,000 g/h Output
Purpose Build above 18,000 g/h Output

SRC/SAC SERIES

Powered By Switch Mode Power Supply (SMPS)
Reverse Polarity
Salinity Range: 2,000 – 360,000 mg/L
Input AC Power Consumption 5.8 kWh/kg
Standard Range: 100-18,000 g/h Output
Purpose Build above 18,000 g/h Output



How it Works

Autochlor™ is an on-site in-line plant capable of producing chlorine in salt water.

Autochlor™ utilises chloride salts dissolved in the water through a process of electrolysis to generate Hypochlorite. Non-chlorinated water passes through Autochlor's™ electrolytic cell (electrode) and leaves with the required chlorine residual.

AIS offers an extensive range of Autochlor™ chlorine generators from traditional transformer based to the most advanced, powered by switch mode power supply with reverse polarity (reduced maintenance) electrodes.

Autochlor™ commercial units are available with reverse/non-reverse polarity switch mode power supply or purpose built transformer and rectifier. All commercial units come with sealed internal active cooling system using radiator (SR, SRC) or air conditioner (SA, SAC). These units are weatherproof and suitable for hot, humid, dusty and corrosive environments.



SMC SERIES

Powered By Switch Mode Power Supply (SMPS)
Reverse Polarity
Salinity Range: 4,000 - 35,000 mg/L
Input AC Power Consumption 10 W/g
Standard Range: 20-30 g/h Output

Applications:

- ✓ Spa and Swimming Pools
- ✓ Aqua Parks
- ✓ Lagoons
- ✓ Water features and Fountains
- ✓ Aquariums with seawater animals
- ✓ Cooling water for power stations
- ✓ Seawater for cooling towers
- ✓ Seawater for a ship's ballast
- ✓ Pre-treatment of seawater before desalination

Benefits:

- ✓ Eliminate the dependence on commercial chlorine suppliers
- ✓ Avoid the risk inherent in the transport and handling of chlorine products
- ✓ Lower the operating costs
- ✓ Achieve a complete automatic process which requires minimal operator attendance



Salt Water Electrolysers/Chlorine Generators; SRC/SAC Series

- Reverse Polarity (Reduced Maintenance)
- The Reversing Action De-Scales The Build-up Of Calcium And Reduces Electrode Cleaning Maintenance By 95%
- Powered By Switch Mode Power Supply (SMPS)
- Considerably More Efficient Than Transformer Powered Chlorine Generators
- Expected Electrode Life – 45,000 hours
- Built-in Acid Wash System
- Sealed, Internally Cooled Power Supply
- Skid Mounted Design (IP 66)
- Modular Design Is Available On Request
- Salinity Range: 2,000 – 360,000 mg/L

Model	Chlorine Gas Equivalent*	Power Consumption**	Water Flow Rate				Dimension (Packaged) L x W x H (cm)	Weight Gross Kg
			High Flow Model		Low Flow Model			
			L/s	Pipe DN, mm	L/s	Pipe DN, mm		
SRC-100	100	0.58	2.5 – 6.7	50	0.5 – 0.8	20	41 x 90 x 60	50
SRC-150	150	0.87	2.5 – 6.7	50	0.5 – 0.8	20	41 x 90 x 70	55
SRC-200	200	1.16	2.5 – 6.7	50	0.6 – 1	25	75 x 75 x 84	110
SRC-300	300	1.74	2.5 – 6.7	50	0.6 – 1	25	75 x 75 x 84	120
SRC-400	400	2.32	2.5 – 6.7	50	0.8 – 1.3	25	92 x 85 x 130	195
SRC-500	500	2.90	2.5 – 6.7	50	0.8 – 1.3	25	92 x 85 x 130	210
SRC-625	625	3.63	2.5 – 6.7	50	0.8 – 1.3	25	92 x 85 x 130	230
SRC-800	800	4.64	5 – 17	80	1.4 – 2	32	90 x 100 x 155	300
SRC-1000	1000	5.80	5 – 17	80	1.4 – 2	32	90 x 100 x 155	330
SRC-1250	1250	7.25	5 – 17	80	2 – 2.8	32	90 x 100 x 155	350
SRC-1500	1500	8.70	5 – 17	80	2 – 2.8	32	90 x 100 x 155	380
SAC-2000	2000	11.60	5 – 17	80	2.8 – 3.7	40	150 x 150 x 159	530
SAC-2500	2500	14.50	5 – 17	80	2.8 – 3.7	40	150 x 150 x 159	570
SAC-3000	3000	17.40	5 – 17	80	2.8 – 3.7	40	150 x 150 x 159	620

NB: Larger capacity models are available upon request. For full listing please visit www.autochlor.com.au

*at 5000 mg/L TDS. Please note that pH greater than 7.5 increases chlorine demand.

**at 25°C

Salt Water Electrolysers/Chlorine Generators; SR/SA Series (Non-Reverse Polarity) also available

Normal operation pressure up to 275 kPa, up to 1000 kPa can be built upon request

High Flow Models supplied by default, Low Flow Models available upon request

Data provided in the table above to be used as a guide only



PROUDLY
MADE IN AUSTRALIA

Salt Water Electrolysers/Chlorine Generators; RP Series

Model	Chlorine Gas Equivalent	Input AC Power Consumption	Water Flow	Dimension (Packaged)	Weight Gross
	Grams/Hour	kW	Litres/minute	L x W x H (cm)	Kg
RPMINI	5	0.07	200 – 400	37 x 31 x 22	11
RP7	7	0.100	200 – 400	39 x 19 x 30	5.5
RP15	15	0.215	200 – 400	37 x 31 x 22	11
RP20	20	0.290	200 – 400	37 x 31 x 22	11
RP25	25	0.360	200 – 400	37 x 31 x 22	11
RP36	36	0.290	200 – 400	37 x 31 x 22	11
RP50	50	0.720	200 – 400	43 x 33 x 27	16
RP64	64	0.505	200 – 400	43 x 33 x 27	16
RP92	92	0.720	200 – 400	43 x 33 x 27	24

Salt Water Electrolysers/Chlorine Generators; AC Series

Model	Chlorine Gas Equivalent	Input AC Power Consumption	Water Flow	Dimension (Packaged)	Weight Gross
	Grams/Hour	kW	Litres/minute	L x W x H (cm)	Kg
ACMINI	5	0.070	200 – 400	37 x 31 x 22	11
AC15	15	0.215	200 – 400	37 x 31 x 22	11
AC20	20	0.290	200 – 400	37 x 31 x 22	11
AC25	25	0.360	200 – 400	37 x 31 x 22	11
AC35	35	0.505	200 – 400	43 x 33 x 27	14
AC50	50	0.540	200 – 400	43 x 33 x 27	24
AC50HD	50 With Heavy Duty Grade Electrodes	0.720	200 – 400	43 x 33 x 27	24
AC100HD	100 With Heavy Duty Grade Electrodes	1.440	200 – 400	47 x 44 x 28	28

Options (Available to Australian customers only)

Prefix	Description	Additions available for
T	Timer Option	Mini/15/20/25/35/50/50HD
QT	Timer With Battery Back Up	Mini/15/20/25/35/50/50HD
L12	Underwater Light Option 12V	Mini/15/20/25
L24	Underwater Light Option 24V	Mini/15/20/25
L32	Underwater Light Option 32V	Mini/15/20/25
S	Seawater Configuration	All Models

NB: When ordering desirable model with options, simply add prefix to the model code. Example: AC25 TL12



Salt Water Electrolysers/Chlorine Generators; SMC Series

Model	Chlorine Gas Equivalent	Input AC Power Consumption*	Water Flow	Dimension (Packaged)	Weight Gross
	Grams/Hour	kW	Litres/minute	L x W x H (cm)	Kg
SMC20	20	0.250	200 – 400	48 x 35 x 17	4.5
SMC20T	20	0.250	200 – 400	48 x 35 x 17	4.5
SMC30	30	0.330	200 – 400	48 x 35 x 17	4.5
SMC30T	30	0.330	200 – 400	48 x 35 x 17	4.5

*at 5000mg/L TDS, 7.5 pH, 20°C and specified flow rates

NB: Back up power for the timer is standard for SMC series Electrolysers/Chlorine Generators sold in Australia only
Data provided in table above to be used as a guide only



About Australian Innovative Systems (AIS)

Water is fast becoming a scarce resource for many countries. The effects of climate change and population growth will only escalate demand, especially in developing regions.

Australian Innovative Systems Pty Ltd (AIS) is committed to improving water quality via cost effective, eco-friendly innovation. With over 35 years experience, we focus on delivering solutions that improve customer performance.

In doing so, we aim to reach beyond geographical and cultural boundaries. We believe that access to clean water should not just be a luxury enjoyed by few, instead a basic right accessible to all.

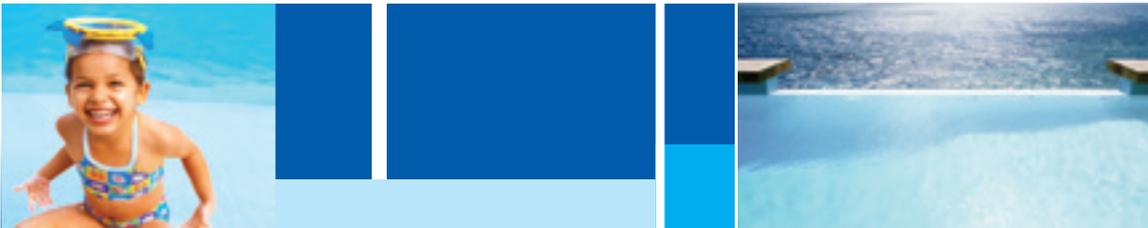
Our technology aims to make a difference in the lives of others. Future generations will benefit greatly from the work being done today, as we strive to bring clean water to communities around the globe.

Other Services include:

- Custom Design
- Consulting
- Installing
- Commissioning
- Scheduled Servicing

Other Products include:

- Chlorogen™
- Ecoline™
- AIS Anode
- Electrodes
- pH Controllers



Your local dealer:

www.aiswater.com.au
info@aiswater.com.au