

Envirogen

Self Contained Chlorine Generator and Control System

Our Envirogen salt chlorinators are a standalone dosing system and chlorine generator all in one neat, easy to install package.

Reliable, robust and accurate chlorine generation and control modules from 50 to 500 grams/hour. They can be linked as Master and Slave units up to 3kg/hr production. Suitable for all Aquatic Facilities from small Day Spas to Olympic Pools.



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This format saves installation time, reduces capital cost, plus allows the one unit to diagnose and report any alarms or faults if connected to the internet.

They work perfectly well with salt or any currently available mineral on the market. Built in modules allow expansion and redundancies, along with sophisticated electronic and mechanical safety systems incorporated into each unit.

The units are built as two variants - Standard Envirogen models which are designed to be used with other dosing systems, and Envirogen Pro units with integrated Free Chlorine and pH probes. These units form a stand-alone dosing system and chlorine generator in one easy to install system. Programmable outputs ensure any redundancy and option is possible, such as Automatic Liquid Chlorine backup, and Auto changeover from CO2 to Liquid Acid.

Each unit is available in both Standard Salinity (3000ppm) and LS Fresh Water (1500ppm) model variants. The LS units when used with a mineral system such as MagnaPool® impart no taste in the water at all- just simply fresh water with the minimal amount of chlorine as required by law.

They have a number of inputs and outputs which make them flexible in their installation including Optocoupler, 4-20mA, 0-10v. Their variable output means they modulate to avoid over- or under-shoot, maintaining a stable free chlorine level no matter what the batherload.

Available In

- Controller + cell + probes + measuring cell
- Slave unit + cell (no probes/measuring cell)
- Skid mounted on request

Main Features

- Programmable sensor inputs
- Programmable GPO outputs & relays
- Medium and Low TDS options available (3000ppm/1500ppm)
- Commercial grade aluminium powder coated enclosure
- Designed and built in Australia, service items readily available
- High quality switch mode power supply
- Liquid chlorine back up
- Optional total chlorine sensor
- Remote monitoring available
- Flow and thermal protection
- Reduced storage and handling of chemicals
- Multiple set points and timers can be configured
- Touch screen interface

Technical Features

Inputs:

- 2 photometric inputs
- 2 isolated 4-20mA inputs (chlorine sensors)
- 2 non-isolated 4-20mA inputs (temperature, conductivity etc.)
- 4 programmable digital inputs
- Control of all types of actuators, dosing pumps, solenoid valves
- Flow switch protection
- 3 programmable relay outputs

Outputs:

- 4 programmable GPO's
- 4 programmable volt-free relay outputs
- 12VDC reversable polarity to cell
- Connection for remote access to the Waterlink portal via ethernet/ 4G
- Auxiliary 5VDC, 12VDC & 24VDC outputs
- Optional BMS integration card

An Overview of the Chemistry of the Water in Your Pool

Example of Application:

- Free CL + PH + temperature + conductivity
- Chlorination + liquid chlorine back up
- CO2 PH control



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Technical Specifications (3000PPM Envirogen)

Specification	Unit	E75g/hr	E125g/hr	E250g/hr	E500g/hr
General Specifications					
Input Voltage	Volts (AC)	220-240			
Power Consumption	Watts	1000	1250	2000	4000
Power Protection	-	10A RCBO	10A RCBO	10A RCBO	20A RCBO
Output Voltage	Volts (AC)	5-16VDC			
Output Amps	Amps	25	40	100	200
Operating Temperature	°C	-5 to 50			
Cooling	-	-	Heatsink	Heatsink	Fan Forced
Enclosure Material	-	Powder Coated Aluminium			Powder Coated Mild Steel
Enclosure Dimensions	W x H (mm)	420x380	420x380	670x420	800x800
Weight	kg	12kg	15kg	15kg	40kg
Max Output Current	Amps	25	40	100	200
Conductivity Range	mS/cm	5.9-7			
TDS Range	PPM	3000-3500			
Cell Water Flow	-	Flow Switch + Proximity Sensor			

Technical Specifications (1500PPM LS - Low Salt - Envirogen)

Specification	Unit	E50g/hr	E100g/hr	E200g/hr	E400g/hr
General Specifications					
Input Voltage	Volts (AC)	220-240			
Power Consumption	Watts	1000	1250	2000	4000
Power Protection	-	10A RCBO	10A RCBO	10A RCBO	20A RCBO
Output Voltage	Volts (AC)	5-16VDC			
Output Amps	Amps	25	40	100	200
Operating Temperature	°C	-5 to 50			
Cooling	-	-	Heatsink	Heatsink	Fan Forced
Enclosure Material	-	Powder Coated Aluminium			Powder Coated Mild Steel
Enclosure Dimensions	W x H (mm)	420x380	420x380	670x420	800x800
Weight	kg	12kg	15kg	15kg	40kg
Max Output Current	Amps	25	40	100	200
Conductivity Range	mS/cm	3-4			
TDS Range	PPM	1500-2000			
Cell Water Flow	-	Flow Switch + Proximity Sensor			

Waterlink Equipment Pty Ltd

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