

SALT CHLORINATORS

Indoor & Outdoor pH Controllers



Enjoy healthy and safe crystal clear water

To enjoy the benefits of a swimming pool or spa, the quality and safety of the water is of paramount importance. A major defence against water born microorganisms is chlorination. For domestic pools and spas the drive towards salt chlorination is growing worldwide. The Bright Blue salt chlorinator from Thermalec allows you to enjoy a softer and silkier feel to your pool whilst knowing that it is safe and saving you money

Benefits of using a Salt Chlorinator in your pool

- Excellent water quality
- A pleasant bathing environment
- Treatment of complete re-circulating water flow
- Simple and easy to maintain
- Does not require daily maintenance
- Range of controllers for indoor and outdoor pools
- Self cleaning electrolytic cell with reverse polarity, time based
- LCD display with simple and intuitive menu
- Salt level indicated in %
- Automatic electrolysis adjustment based on water °C
- Salt concentration from 2.8g/l to 35 g/l
- Allows for connection of an external controller
- Waterproof case ultra resistant to UV (IP65)
- 2 year warranty on the cell



Salt Water Chlorination

Clean, safe, softer water for indoor and outdoor pools.

Application

The Bright Blue Salt Chlorinator from Thermalec is a modular design, compact enough to fit into any circulating water treatment system in a domestic swimming pool or spa. It will generate chlorine from within its own electrolysis cell. Using the Colibri or Electral chlorinator together with the Sanus pH controller you can have confidence in your pool sanitation.

Salt Chlorination

It is the natural and non-aggressive way of controlling the production of chlorine in its hypochlorous acid form as required by the pool or spa. This avoids any excess or lack of chlorine in the water. This feature turns the salt electrolysis into the best disinfecting process for an automated and low maintenance system.

The salt is added to the pool or spa water where it dissolves. It passes through the filtering circuit and the electrolysis cell, where a process of ion separation takes place, breaking the salt into a HOCl Hypochlorous acid (chlorine). The chlorine is released electrochemically, under control and complying with its disinfecting properties into the water. Afterwards the ions recombine, recomposing the salt.

The process repeats itself continuously, or whenever necessary, therefore no salt is lost, except when the pool is refilled with fresh water.

When classical disinfecting methods are used, the chlorine, as sodium hypochlorite, is added directly to the water which can cause concentration peaks, aggressiveness and unpleasant odor for the bather.

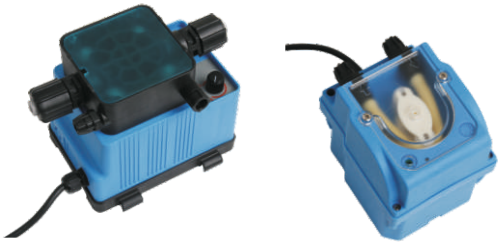
The Control Unit measures the electrolysis current continuously, which enables the pool user to know the continuity of the water flow that passes the cell as well as the cell's conditions.

Colibri

Model	Volume	Chlorine Production	Cell	Power	Flow M³/h	Pressure	Temp	Polarity
Colibri 45	45 M³	10 g/h	Vertical/ Horizontal 300x150(500)	220-240 V VAC 50/ 60Hz	Min - 5 Max > 20c/ bypass	Max 500kPa 5 bar	< 40°C	Constant Time3h/6h
Colibri 60	60 M³	15g/h						
Colibri 90	90 M³	20 g/h						
Colibri 120	120 M³	30g/h						

pH Control

The pH levels depend on the geographic area and the geological nature of the water source. A pH probe monitors these values. When these are high it indicates alkalinity, when they are low it indicates acidity. Appropriate and healthy water for human use should be neutral (neither acidic, nor alkaline). The chlorine capacity of disinfecting depends directly on the water pH. In alkaline media the disinfecting power decreases significantly, it can even be cancelled. It is essential that the pH be measured and compensated with in parameters that guarantee a neutral value to guarantee an effective water treatment by any system. The Bright Blue system automates the pH value compensation, keeping it permanently within the appropriate parameters.



- Automatic control of pH with intelligent progressive injection
- Peristaltic or electromagnetic dosing pump
- Able to reduce or enhance pH
- Password, set points, and alarm configurable
- Liquid compensation level probe
- Manual drain valve
- Temperature probe for pH reading correction (optional)
- Potential free output for correction to other controllers

Sanus

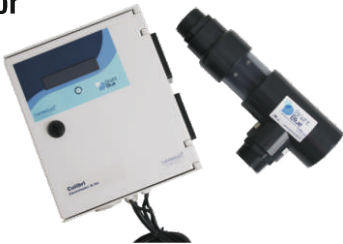
Model	Dosing Pump	Flow	Pressure	Protection	Includes	Warranty
Sanus	Peristaltic	1 L/h	3 bar 5 bar	IP65	pH Probe Probe Holder Buffer Solutions	2 years
Sanus Plus	Electromagnetic	5L/h				

A correct value of pH is essential to keep water well treated

It is very important to keep control of the pH in your swimming pool. The most efficient level for pH is between 7.0 and 7.4, after that the HOCl concentration reduces. At 7.5 it is only 50% efficient.

Electral Salt Chlorinator Indoor

The first electrolysis system which operates with only 0.5 g/l of salt



- Salt concentrations from 0.5g/l to 1.5 g/l
- LCD front panel with simple and intuitive menu
- Self cleaning electrolytic cell with reverse polarity, time based
- Automatic electrolysis adjustment based on water °C
- Coverage detector set to automatically reduce sanitizer output
- Information of chlorine production in %
- Adjustable Chlorine Production – 0% to 100%
- Allows connection of an external controller
- Waterproof case ultra resistant to UV (IP65)
- 2 year warranty on the cell

Electral

Model	Volume	Cell	Power	Flow	Pressure	Temp	Polarity
Electral	60 M³	Vertical/ Horizontal 300 x150 (500)	220-240 V VAC 50/60 Hz	Min - 5 Max > 20 c> bypass	Max 500kPa 5 bar	≤40°C	DT 3h/6h

The Electral Salt Chlorinator is designed for indoor use, to allow you to lower the salt concentrations and operate with only 0.5g/l of salt. This is possible because of 2 factors:

1. The Electral has software which monitors the salt concentrations to higher levels allowing chlorination to be controlled, reducing the salt levels required.
2. You do not have the sun's effect on the pool which will burn off chlorine because of its UV light.

With the combination of these two factors the Electral will bring a better swimming experience to the bather.