

ClorTec®

Compact on-site sodium hypochlorite generator up to 2kg/day or up to 0 - 4.4lb/day

The revolutionary new ClorTec® SCT is a fully integrated patented* design from Severn Trent Services. Salt, water and electricity are electrolysed to produce 2kg/day of hypochlorite solution at 0.7% strength.

Air is blown into the generator to dilute the hydrogen produced as a by-product to more than 10 times less than the minimum safe limit.

ClorTec systems from Severn Trent Services offer a safe and reliable method of on-site generation of disinfectant solution for a wide range of applications. With over 10 years experience in electrochlorination technology, Severn Trent Services has installed more than 3,500 systems worldwide to date.

The simple and compact skid based design uses batch mode production to ensure low operating and capital costs.



ClorTec® - The experience you can trust

Features

- Generates sodium hypochlorite on-site
- Batch process
- Hydrogen dilution at the point of production
- Produces 2kg/day of hypochlorite
- Integrated skid design
- Simple design with minimal moving parts and components
- Small footprint

Benefits

- Provides maximum safety benefit – minimal venting of hydrogen
- Produces low by-products
- No need for storage or transportation of hazardous chemicals
- Low operating and capital costs
- Flexible solution – easily transportable for permanent or temporary installation
- Suitable for a variety of applications including industrial, municipal, leisure
- Simple maintenance, ease of installation of new or additional cells
- Reliable solution – fewer moving parts than other solutions

*patent pending



Principle of Operation

Design and operation of the ClorTec SCT system for on-site generation of sodium hypochlorite is straightforward.

The SCT generation process is entirely a batch make-up system, which takes approximately two hours from start to finish.

- Using softened water, salt (NaCl) is dissolved in a tank to form a concentrated (30%) brine solution
- The system fills with diluted brine solution until a level sensor indicates when the maximum fill limit has been reached
- The cell is energised for approximately two minutes. During this time, air is blown into the cell to dilute the hydrogen at the point of production
- The brine solution is converted to hypochlorite at approximately 0.8% solution strength over a period of two hours
- The hypochlorite solution drains to the product tank in a process that takes eight minutes
- The disinfectant can then be used in the water treatment system

System Components

The integrated skid design incorporates the following items:

- Brine Tank
- Product Tank
- Integrated Softener
- Integrated Panel that includes: Power Supply/Rectifier/Controls

Technical Information	SCT1	SCT2
Chlorine Equivalent Production kg/d	1	2
Flow l/d	150	300
Salt Used kg/d	3.5	7
Electricity Consumption Kw/hr	5.5	11
Product Strength % Equivalent chlorine	0.7	0.7

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