



CHLORINE GENERATOR IN-SITU

On-site chlorine production by salt electrolysis

Range from 30 to 2200 g/h



SYCLOPE
Electronique

The right expertise of water

APPLICATIONS



Aquatic centers - Public swimming pools - Hotels - Campings -
Private swimming pools - Any process with chlorine injection...

ADVANTAGES

IN-SITU CHLORINE GENERATOR

The use of salt offers considerable health and safety benefits to operators:

SECURITY

- No delivery or handling of dangerous chemicals
- H₂ detector supplied as standard on the entire range
- No chlorine vapour emission (hermetic tank)
- 3 kg of salt equivalent to 1 kg of pure chlorine
- Concentration of 5-7 g/l of chlorine produced
- 9 kg of salt equivalent to 1 x 20 l can of 12.5% liquid chlorine

QUALITY

- No product degradation: constant concentration
- On-site chlorine generation
- One electrolysis system for multiple injection points using a common product storage tank and metering pumps
- Less injection point clogging compared to sodium and calcium hypochlorites on the market, due to the low mineral content of the solution produced

EFFICIENCY

- Easy maintenance with low frequency
- Economical solution: salt is cheaper than chlorine and less acid consumption
- Lifetime of the cell over 5 years
- Simple, safe and reliable equipment: automatic process, open non-membrane system
- Skid-mounted, easy to install, commission and operate: "Plug and Play" system
- Easier salt supply compared to chlorine



**PRODUCT QUALITY - SIMPLE INSTALLATION AND USE -
ECONOMICAL SOLUTION - INCREASED SAFETY**

THE RANGE

Wide range of chlorine generators to meet all the needs and problems of the field.

VERSION
30 - 60 - 90 g/h



VERSION
240 - 480 - 960 g/h



Range COMPACT M

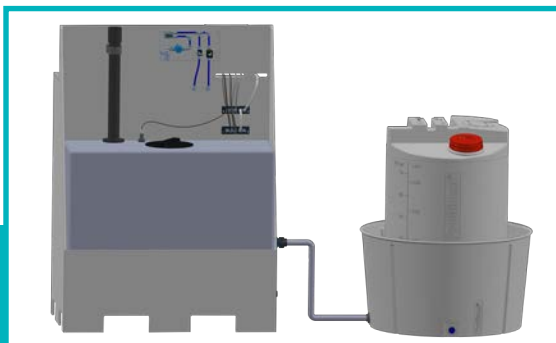
VERSION
560 - 1100 - 2200 g/h



NEW RANGE : COMPACT M

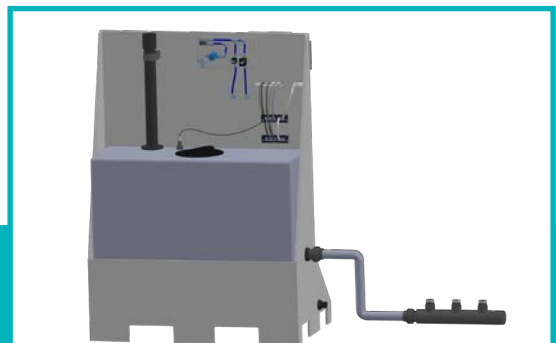
A new range of compact chlorinators optimized for productions of 240, 480 and 960 g/h of 100% active chlorine. 2 versions for a total adaptation to the technical rooms:

**VERSION 1 - 300 L INTERNAL CAPACITY
WITH 250 L EXTERNAL TANK**



- + Additional chlorine reserve
- + 150 kg of salt storage
- + Gravity brine injection (no maintenance required)
- + Tank bottom detector (in case of a leak)

**VERSION 2 - C300 L INTERNAL CAPACITY
WITHOUT EXTERNAL TANK WITH SUCTION
FEEDER FOR DOSING PUMPS
(specific version for small rooms)**



- + Optimized cell for better efficiency
- + Product sampling with external outlet spigot
- + Optimized feeder ventilation for greater safety

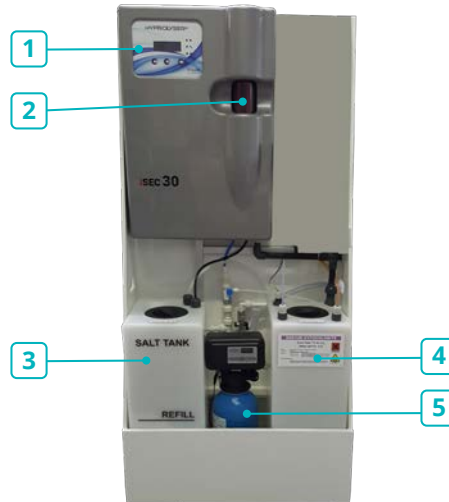
- + Drain/Discharge to drain the cell completely cell and rinse it (e.g.: wintering period)
- + Removal of the venturi (stop depressions)
- + Pre-filter mounted
- + T° sensor to secure the production process

TECHNICAL SPECIFICATIONS

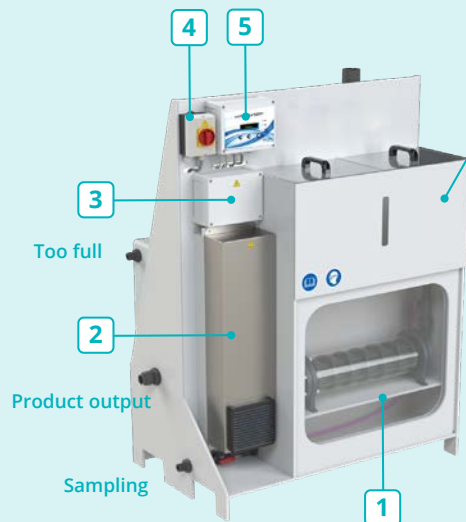
Other models are available on request

Version 30 - 60 - 90 g/h

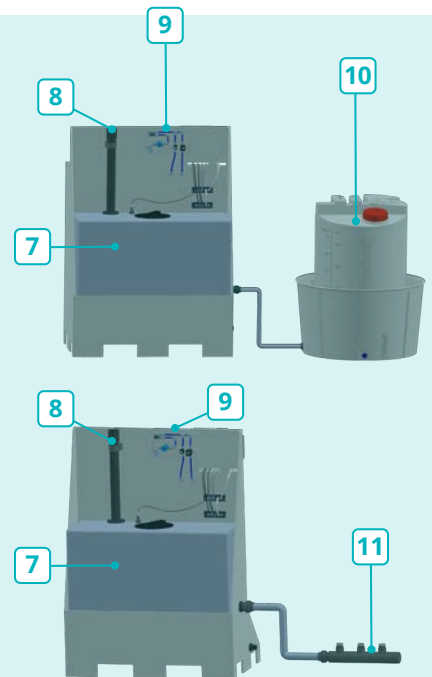
- 1- Control panel
- 2- Electrolysis cell
- 3- Salt saturator tank
- 4- Product tank
- 5- Softener



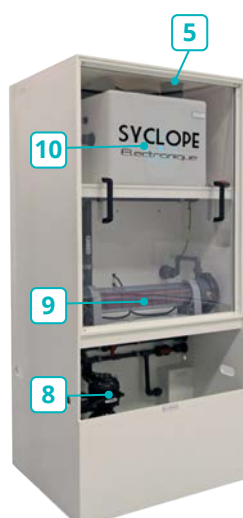
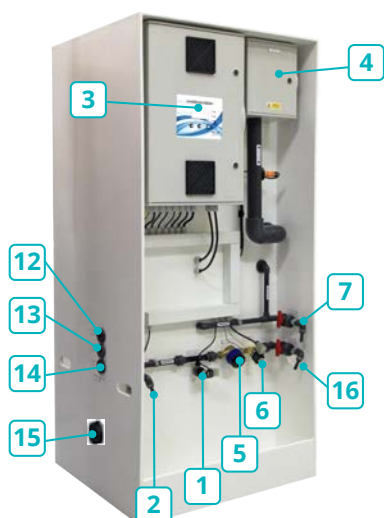
Version COMPACT M 240 - 480 - 960 g/h



- 1- Electrolysis cell
- 2- Power supply of the cell
- 3- Electrical panel
- 4- Electrical separator
- 5- Control panel
- 6- Salt tank and level
- 7- Degassing tank
- 8- Hydrogen evacuation
- 9- Water and brine control module
- 10- External tank of 250 l
- 11- Suction feeder for the connection of the dosing pumps



Version 560 - 1100 - 2200 g/h



- 1- Solenoid valve for brine control
- 2- Diluted brine sampling point
- 3- Control panel
- 4- Hydrogen extraction ventilator
- 5- Softened water flow control
- 6- Softened water solenoid valve
- 7- Product sampling point
- 8- Double self-regenerating softener
- 9- Electrolysis cell
- 10- Internal product storage and degassing tank
- 11- Hydrogen discharge outlet
- 12- Product outlet to the external tank
- 13- City water inlet
- 14- Softened water outlet to external saturator
- 15- Brine inlet from external saturator
- 16- Softened water sampling point

TECHNICAL SPECIFICATIONS

DESCRIPTION		Unit	ELECTROLYSER MODEL									
			30	60	90	240	480	960	560	1100	2200	
Production capacity		g/h	30	60	90	240	480	560	1100	2200		
Chlorine concentration		g/l	5-7			5-7			5-7			
Concentrated sodium hypochlorite equivalent		L/jour	5	10	15	39	77	154	90	176	352	
Production features												
Chlorine storage tank												
Volume	Liter	30 or 200	200	300 + 250	300	300 + 250	300	300 + 250	300	500 to 2000*		
Material	Type	PE			PE			PE or PEHD				
Integrated in the skid		✓	✓**	✓	✓	✓**	✓	✓**	✓	✗		
Overflow safety		✓				✓				✓		
Retention tanks		✓				✓				✓		
Diameter of degassing chimney	mm	20			63							
Salt storage tank												
Capacity	Kg	30 or 50			150			300 to 1200*				
Material	Type				PE							
Integrated in the skid		✓	✓	✓	✓	✓	✓	✓	✓	✗		
Water filling management					Automatic							
Power supply												
Power consumption	Watts	150	300	450	1200	2400	4800	2800	5600	12000		
Power supply	Ø	240VAC/1Ø/50-60Hz			240VAC/1Ø/50-60Hz			or three-phase		three-phase		
Consumables												
Required pressure	Bar				2 to 4							
Nominal water consumption	l/h	5	10	15	40	80	160	98	196	392		
Nominal salt consumption	kg/h	0,1	0,2	0,3	0,7	1,5	2,9	1,8	3,6	7,3		
Protection class	IP	54			40			44				
Permissible ambient T°C	°C				+5°C to +40°C							
Permissible supply water T°C	°C				+8°C to +20°C							
Type of salt		special water softener, biocide certified										
Dimensions												
Dimensions (L x l x H)		670 x 460 x 153			1205 x 704 x 1593			853 x 752 x 1800				
Weight	kg/h	16	16	16	131	134	138	159	173	197		

* other tanks on demand

** tank integrated in the skid and an external tank

SYCLOPE

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