

ipoQLOR[®] COMPACT

IN SITU CHLORINE GENERATOR

by saltwater chlorination

Production capacity : from 10 to 40 g/h

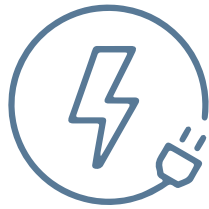


CONVERSO

CREATE YOUR OWN CHLORINE !

Aware of the environmental challenges and changes in standards at local level, our **water treatment** offer must be in line with the sobriety made essential by the ever-increasing threat of global warming.

With over 30 years' experience in saltwater chlorination, **Converso** has developed a simple, safe and compact in-situ chlorine generator by saltwater chlorination: iPOQLOR® Compact. The healthy and effective alternative to disinfection with chemical products :



Electricity Water Salt

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Disinfectant chlorine solution

3KG OF SALT = 1KG OF ACTIVE CHLORINE

Produced on site and on demand, the disinfectant solution comes with a host of benefits and a **reduced carbon** footprint, a requirement at a time when ecological choices are crucial for the future:

- Production of fresh chlorine of constant concentration.
- Salt and water as the only raw materials.
- A reduced carbon footprint.
- Greater handling safety.
- Small footprint, ideal for small technical rooms.
- Reactor and control box made from recycled and recyclable plastics.

THE EFFICIENCY OF CHLORINE WITHOUT THE DISADVANTAGES



QUALITY

- . On-site production of fresh chlorine with a constant concentration without degradation
- . Less clogging of injection points due to the low mineral content of the solution produced



SAVINGS

- . Low cost of salt
- . Reduced labour



SIMPLICITY

- . Plug & Play commissioning
- . Low maintenance
- . Integration into existing installations



SAFETY

- . Suppression of the transport/storage of dangerous products
- . No more handling of chemicals
- . No chlorine fumes

A SINGLE SOLUTION FOR MULTIPLE APPLICATIONS

Fish farming

Water quality is essential for the healthy development of flora and fauna, to guarantee healthy livestock and prevent the intrusion of pathogens. The In Situ Converso chlorine generator provides effective disinfection for animal protection. It simplifies maintenance processes and daily operations thanks to its automated system and ensures a better environment for both fish and maintenance technicians.



Potabilisation/Animal drinking

Converso is the chemical-free treatment solution for all pathogenic bacteria. Thanks to its process, raw water from local resources (wells, boreholes, water catchments) can be treated for drinking water purification. It is also the solution for disinfecting rainwater recycled for sanitary use. Often applied to isolated areas, *Converso* can also be used in the hotel and catering sector, in hospitals, schools and sports halls.



Cooling towers

There are three types of problem that cooling circuits can face: dirt, bacterial proliferation and corrosion. It is vital to anticipate these problems in order to improve efficiency while at the same time to reduce costs. *Converso* has a major role to play in a wide range of applications in maintaining good hygiene in circuits such as air conditioning systems and cooling towers.



Sanitary hot water - Commercial

The proliferation of bacteria, legionella and other biofilms are recurrent problems in the hot and cold water distribution networks in a number of buildings open to the public: hospitals hotels, public buildings and offices. The sodium hypochlorite solution iPOQLOR effectively eliminates biofilm, legionella and other bacteria without the need to handle chemicals in the internal secondary distribution circuits in these buildings.



Irrigation

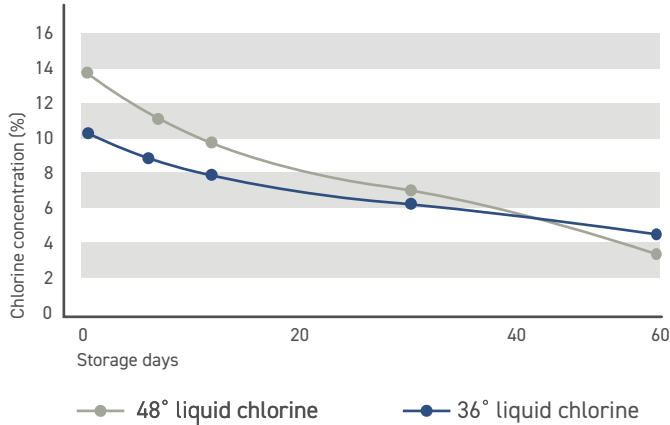
Recycling wastewater is a major challenge for sustainable development. More economical, it allows seawater to be desalinated, transported or even pumped in large quantities. Use in industrial circuits *Converso* is the treatment solution for disinfecting raw water of raw feed water and drainage water. For isolated sites, wastewater treatment reduces discharges into the sea and helps to protect bathing sites. to protecting bathing sites.



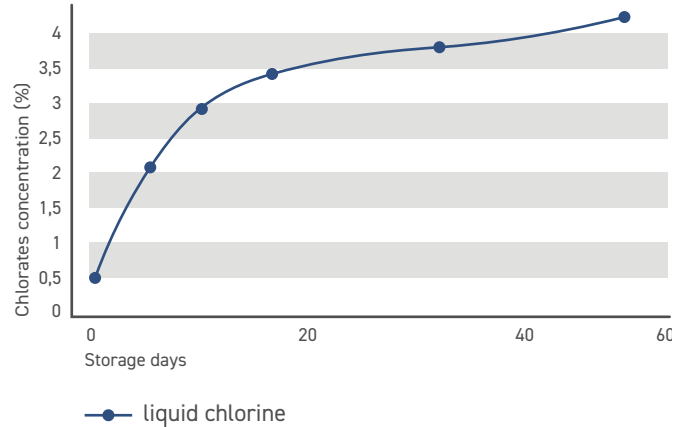
FRESH CHLORINE PRODUCED ON DEMAND AND CONSTANT CONCENTRATION

Because of its low active chlorine concentration, iPOQLOR sodium hypochlorite solution is much less sensitive to oxidation phenomena that lead to a loss of active chlorine concentration and an increase in the by-products such as chlorates.

CHLORINE CONCENTRATION VS STORAGE



CHLORATE CONCENTRATION VS STORAGE



A SIMPLE, COMPACT AND EFFICIENT SYSTEM!

Reactor top view



- 1 Softened water tank to supply the brine tank and production cell.
- 2 Brine tank isolated from the salt reserve.
- 3 Salt tank: the salt used must comply with one of the 4 standards below :
NF EN 973 Quality A - NF EN 14805 Type 1 - NF EN 16401 Quality A - NF EN16370.
- 4 The brine is mixed with softened water at the inlet to the production circuit.
- 5 The resulting mixture is injected into the production cell circuit. Sodium hypochlorite is produced continuously.
- 6 The sodium hypochlorite produced is discharged directly into the storage tank. With its pre-mounted suction pipe, the solution is ready to be injected in the hydraulic circuit.
- 7 Electronical box controlling the entire system.



Production reactor



Production tank



Control box

TECHNICAL SPECIFICATIONS

iPOQLOR® COMPACT RANGE

iPOQLOR® COMPACT MODELS

REFERENCE

iPOQLOR® COMPACT 10

ELYI24NPSC-G5NM10

iPOQLOR® COMPACT 20

ELYI24NPSC-G5NX20

iPOQLOR® COMPACT 40

ELYI24NPSC-G5NZ40

PRODUCTION SPECIFICATIONS

Maximum production (L/h)	10	10	10
Active chlorine maximum production (g/h)	10	20	40
Active chlorine maximum production per day (kg/day)	0,24	0,48	0,96
Active chlorine concentration (g/L)	1	2	4

GENERAL CONSUMPTIONS

Water (L/h)	10	10	10
Salt (with softener) (g/h)	31	63	125

1 KG ACTIVE CHLORINE PRODUCTION CONSUMPTIONS

Electricity (kW)	6,5	4,6	3,6
Certified biocide salt (kg)	7.6	3,8	1,9
Softened water (L)	1000	500	250

CONDITIONS OF USE

Environmental temperature (°C)	< 45	< 45	< 45
Input water temperature (°C)	< 25	< 25	< 25
Input water hardness (with softener) (°f)	< 12	< 12	< 12
Pressure (bar)	1 to 3	1 to 3	1 to 3

CHARACTERISTICS

Reactor dimensions (W x D x H mm)	450 x 490 x 783	450 x 490 x 783	450 x 490 x 783
Total reactor mass (kg)	18	18	18
Reactor material	HDPE	HDPE	HDPE
Production tank and retention tank material	UV-treated polyethylene	UV-treated polyethylene	UV-treated polyethylene
Production tank volume (L)	100	100	100

ELECTRICAL SPECIFICATIONS

General supply	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Maximum intensity on each electrode (A)	<15	<15	<15
Maximum voltage on each electrode (V)	<20	<20	<20

EQUIPMENTS / FEATURES

Number of electrodes	1	1	1
Number of plates	4	5	9
Communication	Bluetooth	Bluetooth	Bluetooth

WARRANTIES

Electronical box	2 years	2 years	2 years
Cell (in the limit of 10 000 hours of operation)	2 years	2 years	2 years

OPTION

Softener	KIT23ADOU4L	KIT23ADOU4L	KIT23ADOU4L
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CONVERSO

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MADE IN FRANCE

