

iPOOLOR[®]

COMPACT

In-situ chlorine generator
by saltwater chlorination for
public pools



Create your own chlorine !

Aware of the environmental issues and the evolution of standards at the territorial level, the «swimming pool» offer must be in line with the sobriety made essential by the ever-increasing global warming.

It's in this logic that iPOQLOR® was conceived. This solution provides all the benefits of saltwater chlorination without adding any salt to the pool. Indeed, the chlorination cell is not integrated in the hydraulic circuit but housed in a reactor installed in the technical room.

The iPOQLOR® offline chlorine generator is :

- A low salt consumption solution to limit the impact on the environment with waste water.
- An innovative treatment solution producing fresh chlorine of constant concentration.
- A significant reduction in acid consumption to lower the pH (minus 25% to 30%).
- Easy installation : iPOQLOR allows the professional to limit the various risks associated with the installation of technical products (leaks, loose connections, etc.) thanks to its factory pre-wired reactor.
- An optimal user experience and bathing comfort.

iPOQLOR® is compatible with all semi-collective pools : campsites, hotels, aquatic centres, para-medical. An economical and environmentally friendly solution for those professionals who want to reduce their environmental impact while making substantial savings :

- Significantly reduced carbon footprint : almost no transport
- Limited environmental impact : little recycling, clean wastewater
- Reduced cost of chlorination based on raw materials 5 to 7 times cheaper (salt vs chlorine)
- A reactor made of recycled and recyclable plastics
- A small footprint allows it to fit into the smallest technical rooms and to disinfect pools up to 100 m³ (depending on model)

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
- Less chloramines

Savings

- Low cost of salt
- Reduced labour

Simplicity

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

Security

- Suppression of the transport/storage of hazardous materials
- No more handling of hazardous chemicals
- No chlorine fumes

A simple and efficient principle !



1 Softener

The supply of softened water to the reactor is mandatory and necessary for the proper functioning of iPOQLOR® (softener optional)

2 Production reactor Softener water tank

to feed the brine tank and the production cell. Capacity of 0,8 liter

Brine tank

isolated from the salt reserve

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. Capacity of 2 bags of salt of 25 kg

3 Control and production unit

Control of the production reactor, management of tank filling levels and production ranges

Intuitive navigation on backlit LCD screen

4 Pumps

Automatic injection of an optimal quantity of brine and softened water at the entrance of the production circuit

5 Circuit inlet

The mixture obtained is injected into the circuit of the production cell. Sodium hypochlorite is thus produced continuously

6 Production cell

Long life cell (10 000 hours)

Cell maintenance alert: thanks to an hour counter, a message appears to warn the user of specific maintenance operations
Connectivity

7 Waterproof production tank

100 L tank with anti-UV treatment + retention tank: preservation of pure and fresh chlorine

Suction nozzles : allows the suction of sodium hypochlorite

Level probes: high, low, overflow. Disconnectable for easy maintenance

Vent for evacuation of the produced hydrogen

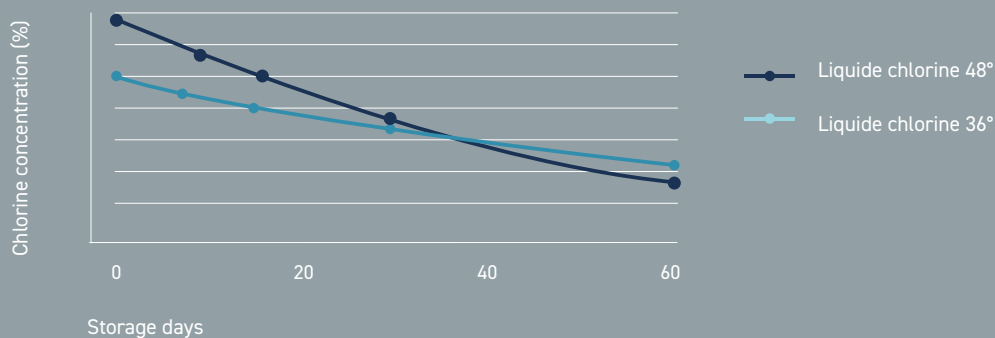
Always fresh chlorine, produced on demand and of constant concentration

iPOQLOR® manufactures sodium hypochlorite or liquid chlorine (NaClO) with a concentration of between 1 and 4 g of active chlorine per litre depending on the model. This low concentration has multiple advantages :

- Due to its low mineral concentration, the sodium hypochlorite thus generated will greatly limit the scaling of injection points.
- Its pH of 9 (whereas the pH of liquid chlorine is 12) will significantly reduce the use of acid to lower the pH of the pool : up to 30% reduction in consumption.
- Significant improvement in bathing comfort : crystal clear water, skin is not attacked and eyes are not irritated.

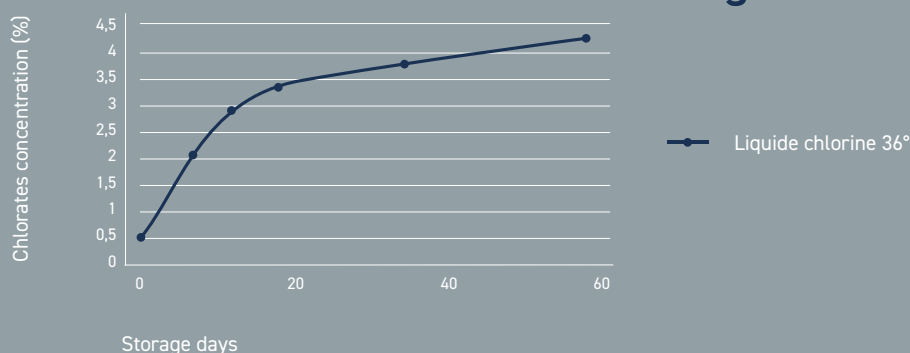
The length of storage time has a major influence on the loss of concentration of liquid chlorine, which can be as much as 50% after 30 days. This loss of concentration will be amplified by a high storage temperature.

Chlorine concentration vs storage



Over time, chlorine will generate by-products, some of which are harmful to human health, such as chlorates. The duration of storage will strongly favour the formation of these by-products.

Chlorate concentration vs storage



A solution for all your projects

Our teams will help you choose the model best suited to your needs by conducting a technical study. On-site or in-plant training is also available.

Depending on the needs of your installation, iPOQLOR® can be accompanied by a dosing panel, Pro Dosing® ORP or Ampero for a more efficient disinfection.

Technical characteristics of iPOQLOR® range

Model iPOQLOR	iPOQLOR COMPACT 10	iPOQLOR COMPACT 20	iPOQLOR COMPACT 40
Reference	ELYI23NPSC-G4NM10	ELYI23NPSC-G4NX20	ELYI23NPSC-G4NZ40

PRODUCTION FEATURES

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

GENERAL CONSUPTION

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

CONSUMPTION FOR A PRODUCTION OF 1KG ACTIVE CHLORINE

Electricity (kW)	3,5	3,5	3,5
Certified biocidal salt (kg)	3,1	3,1	3,1
Softened water (L)	1000	500	250

CONDITIONS OF USE

Ambient temperature (°C)	< 40	< 40	< 40
Inlet water temperature (°C)	< 20	< 20	< 20
Inlet water hardness (with softener) (°f)	< 10	< 10	< 10
Operating pressure (bar)	1 to 3	1 to 3	1 to 3

TECHNICAL FEATURES

Dimensions (LxWxH) mm	450 x 490 x 783	450 x 490 x 783	450 x 490 x 783
Total weight (kg)	15	15	15
Reactor material	Recycled PEHD	Recycled PEHD	Recycled PEHD
Material production tank and retention tank	Recycled PEHD	Recycled PEHD	Recycled PEHD
Volume of production tank (L)	100	100	100

ELECTRICAL FEATURES

General power supply	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Maximum current on each electrode (A)	13	11	12
Voltage on each electrode (V)		<24	

EQUIPMENTS / FEATURES

Number of electrodes	1	1	1
Number of plates	4	5	9
Communication	BT/Modbus	BT/Modbus	BT/Modbus

WARRANTIES

Electronic box	2 years	2 years	2 years
Cell*	2 years	2 years	2 years
Reactor	2 years	2 years	2 years

OPTION

Softener	KIT23ADOU4L	KIT23ADOU4L	KIT23ADOU4L
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*within the limit of 10,000h

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