

# Electrolysis System CHLORINSITU® IV Compact

Chlorine and sodium hydroxide made from common salt. Directly on site.



## Output 25 – 50 g/h of chlorine

Electrolysis systems of type CHLORINSITU® IV Compact generate chlorine gas in a vacuum process. A saturated solution of sodium chloride is produced in a salt-dissolving tank, included in the scope of delivery, and this solution is then electrolysed in a diaphragm cell. Sodium hydroxide solution and hydrogen are produced in the cathode chamber while pure chlorine gas and dilute residual brine are produced in the anode chamber, separated by the diaphragm from the cathode chamber. The resulting chlorine gas is suctioned off through an injector integrated in the system and dissolved as hypochlorous acid in the water being treated. The hydrogen

generated is discharged to the fresh air through a bleed line. The sodium hydroxide solution is disposed of or optionally used by a metering pump integrated in the system to correct the pH of the water being treated. The salt dissolving water comes from a softener integrated in the system, thereby preventing the formation of lime deposits and ensuring the long service life of the electrolytic cell. Electrolysis systems of type CHLORINSITU® IV Compact are especially suitable for use with smaller swimming pools in residential properties and hotels (indoor pools with a total circulation capacity of up to 25 m<sup>3</sup>/hour, chlorinated in accordance with the DIN standard).

## Your benefits

- Chlorination and pH value adjustment in a single system
- Production and metering of high-purity hypochlorous acid
- Cost-effective operation thanks to the use of sodium chloride as an inexpensive raw material and no consumption of chemicals for pH adjustment
- Safe negative pressure system engineering
- Robust, simple technology
- Compact space-saving design, ready mounted on a wall panel

## Field of application

- Swimming pool
- Potable water
- Cooling tower

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## Technical Data

Power supply 1 x 230 Volt (VAC/1P/N/PE/50 Hz)

Type/output	Power uptake	Max. salt consumption	Max. consumption of process water	Dimensions L x W x H (mm)	Brine tank
g/h	kW	g/h	l/h		l
25	0.11	65	1.5	590 x 355 x 650	110
50	0.22	130	3	590 x 355 x 650	110

## Scope of delivery:

Electrolysis systems of type CHLORINSITU® IV Compact are ready mounted and wired for use on a wall panel. Chlorine electrolysis system with integrated microprocessor control and water softening system, diaphragm electrolysis cell with negative pressure monitoring, separate salt dissolving tanks with level control, integrated injector and integral feeder assembly for sodium hydroxide solution (optional). A booster pump is also needed (not included in the scope of delivery) for the single possible point of injection. Several pools cannot be fed from one Chlorinsitu® IV Compact system.

	Order no.
CHLORINSITU® IV Compact 25	1036461
CHLORINSITU® IV compact 25 with pH correction	1036462
CHLORINSITU® IV Compact 50	1036463
CHLORINSITU® IV Compact 50 with pH correction	1036464