

Electrolysis System CHLORINSITU IIa XL

High-performance tubular cell electrolysis



Output 5 – 45 kg/h of chlorine

The new CHLORINSITU IIa XL is specially developed to meet the requirements of large-capacity in situ potable water disinfection. Based on the recently developed tubular cells, the system is a modular system for the safe production of hypochlorite solution from a diluted salt solution. Thanks to its precise production and optimised cell design, it achieves

a high turnover of salt at a concentration of 8 g/l in the final product. The certified safety concept ensures the safe extraction of hydrogen and maximum operating safety. The CIIa XL is combined with the necessary modules, depending on the needs of the project, and is adapted as best as possible to the conditions on site.

Your benefits

- Sole use of salt as the raw material
- Very long service lives due to minimal maintenance and robust technology
- Proven cell design with increased efficiency, only 3.2 kg NaCl/kg free chlorine
- Modular design
- Easy accessibility
- Certified safety

Field of application

- Potable water treatment
- Cooling water treatment

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Technical Data

Capacity (as Cl ₂ equivalent)		Number of electrolysis cells	Product volume (NaOCl)		Salt consumption	
kg/h	kg/d		l/h	m ³ /d	kg/h	kg/d
5	14.4	1	625	15	16	384
7.5	180	1	935	22.5	24	576
10	240	2	1,250	30	32	768
15	360	2	1,875	45	48	1,152
20	480	4	2,500	60	64	1,536
22.5	540	3	2,810	67.5	72	1,728
30	720	4	3,750	90	96	2,304
45	1,080	6	5,625	135	144	3,456

All figures apply for 20 °C ambient temperature and 10-20 °C feed water. The performance of the system is affected by the temperature and quality of the water and salt.

System availability:	24 h/d
Salt usage:	3.2 kg/kg chlorine
Energy efficiency:	4.2 (DC) / 4.9 (AC) kWh/kg chlorine
Product concentration:	8 g/l (0.8 % ±0.05) chlorine
pH value of product (approx.):	9.5
Salt specifications:	CHLORINSITU salt, salt tablets or salt with a grain size of ≥ 6 mm, min. 99.4 % NaCl, max. 0.05 % insoluble substances, max. 10 mg/kg iron, max. 10 mg/kg manganese, max. 100 mg/kg calcium + magnesium
Inlet water temperature:	10...20 °C (lower/higher temperatures require a heater/chiller)
Ambient conditions:	Non-condensing, non-corrosive and dust-free ambient air in the installation room
Salt dissolving tank:	customer-specific