

Electrolysis System CHLORINSITU IIa 60 – 2,500 g/h

Enhanced efficiency through innovative design.



CHLORINSITU IIa is a compact on-site electrolysis system for the production of a low-chlorate hypochlorite solution from salt and electricity. Key advantages are its simple process management and excellent system safety through integrated ventilation and bleeding.

Technical Details

- Efficient undivided electrolysis cell
- Corrosion-proof housing with integrated ventilation fan
- Control with multicoloured touch panel
- Optional remote maintenance module
- Salt-dissolving tank included in the scope of delivery
- Integrated 50-litre product storage tank with optional diaphragm metering pump (up to 300 g/h)
- Integrated softener (up to 300 g/h)



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Technical Data

Power supply

(60 – 300 g/h): 230 V AC $\pm 10\%$, 50/60 Hz

(625 – 2,500 g/h): 3 x 230/400 V AC $\pm 10\%$, 50/60 Hz

Output		Number of electrolysis cells	Product volume (NaOCl)	Power uptake	Max. salt consumption	Dimensions H x W x D	Brine tank
g/h	kg/d		l/h	kW	kg/h	mm	l
60	1.4	1	7	0.5	0.19	1,950 x 750 x 644	200
120	2.8	2	14	0.8	0.38	1,950 x 750 x 644	200
180	4.2	3	21	1.1	0.57	1,950 x 750 x 644	200
240	5.6	4	28	1.4	0.75	1,950 x 750 x 644	200
300	7	5	35	1.7	0.95	1,950 x 750 x 644	200
625	15	1	75	3.4	1.9	1,850 x 1,500 x 620	200
1250	30	2	150	6.8	3.8	1,850 x 1,500 x 620	380
2500	60	1	300	12.8	7.5	1,850 x 1,500 x 620	520

All figures apply for 20 °C ambient temperature and 15 °C feed water. The performance of the system is affected by the temperature and quality of the water and salt.

Salt usage: 3.0 kg/kg chlorine

Energy efficiency: 4.0 kWh/kg chlorine

Product concentration: 9 g/l (0.9 % ± 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...25 °C (lower/higher temperatures require a heater/chiller)

Water supply: 2 bar < pressure < 6 bar (drinking water quality)

Ambient conditions: Non-condensing, non-corrosive and dust-free ambient air in the installation room

Permissible relative air humidity: Max. 85 %

Permissible ambient temperature: 10...40 °C