

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

Electrolysis system CHLORINSITU IIa with open cell technology: improved efficiency through innovative design.



CHLORINSITU IIa is a compact on-site electrolysis system for the production of a low-chlorate hypochlorite solution from sodium chloride and electrical energy. A key advantage is its simple process management and excellent system safety through integrated ventilation and bleeding.

Technical Details

- efficient undivided electrolytic cell
- corrosion-proof housing with integrated ventilation fan
- control with multicoloured touch panel
- optional remote maintenance module
- salt dissolving storage tank included in the scope of delivery
- integrated 50-litre product storage tank with optional diaphragm metering pump for the metering of the chlorine solution (up to 300 g/h)
- integrated softener (up to 300 g/h)



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Power supply (60 – 300 g/h): 230 V AC ±10 %, 50/60 Hz
Power supply (625 – 2,500 g/h): 3 x 230/400 V AC ±10 %, 50/60 Hz

Output		Number of electrolysis cells	Fuse A	Product volume (NaOCl) l/h	Power uptake kW	Max. salt consumption kg/h	Dimensions H x W x D mm	Brine tank l
g/h	kg/d							
60	1.4	1	C16	7	0.5	0.19	1,700 x 750 x 620	200
120	2.8	2	C16	14	0.8	0.38	1,700 x 750 x 620	200
180	4.2	3	C16	21	1.1	0.57	1,700 x 750 x 620	200
240	5.6	4	C16	28	1.4	0.75	1,700 x 750 x 620	200
300	7	5	C16	35	1.7	0.95	1,700 x 750 x 620	200
625	15	1	3 x 25	75	3.4	1.9	1,700 x 1,850 x 620	200
1,250	30	2	3 x 35	150	6.8	3.8	1,700 x 1,850 x 620	380
2,500	60	1	3 x 40	300	12.8	7.5	1,700 x 1,850 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: 15...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