

The DULCO®Lyse produces an Electrochemically Activated Water (ECA- Water) product in a membrane cell from a saturated salt solution. The DULCO®Lyse installation is producing ECA water which provide the most pure chlorine based disinfection product. The product is made of pure chlorine at a neutral pH value, so called hypochlorous acid. The chloride and chlorate level in the ECA water are the lowest possible and therefore suitable in all kind of processes and harmless for materials used. The best chlorine based disinfection method is DULCO®Lyse. The produced amount of ECA- water is stored in a special designed storage tank which acts as a process interface. Therefore the DULCO®Lyse does not have any direct influence on the main processes.

Installation capacity (Free available chlorine, FAC)	100 g/h 2.2 kg/day	200 g/h 4.4 kg/day	300 g/h 6.6 kg/day
Production capacity	22 h/day <sup>1</sup>		
Salt conversion	1.9 kg/kg FAC		
Energy consumption	4.0 kWh/kg FAC		
FAC concentration <sup>2</sup>	400 ppm ± 10% (0.4 g/l ± 10%)		
pH product (approx.)	6.5		
Membrane cell type	HMC10-1	HMC10-2	HMC10-3
Capacity ATEX Blower	200 m <sup>3</sup> /h		
DULCO®Lyt volume	250 l/h	500 l/h	750 l/h
IEC/EN901 regulation	5.500 l/day	1.,000 l/day	16.500 l/day
Power supply	230Vac ± 10%, N, PE, 50 Hz		
Nominal Energy use	1.1 kW	1.5 kW	1.9 kW
Installation fuse	1x25A		
Salt consumption	190 g/h 4.2 kg/day	380 g/h 8.4 kg/day	570 g/h 12.6 kg/day
Salt requirements	Salt certified according to the BPR 528/2012 <sup>3</sup> Salt quality preferable to EN16370 <sup>4</sup>		
Maximum ambient humidity	85%		
Ambient Temperature	10 - 35 <sup>0</sup> C		
Ambient Conditions	Ambient air non condensating, non corrosive and dust free air within the installation room		
Required floor space	4000 x 1600 mm <sup>5</sup>		
Storage tank	1- day production capacity		
Brine tank	200 Liter (φ600x910mm)		
Transport box size, weight	2815x1015x2380mm, 720 kg		
Relevant regulations	IEC/ EN 2006/42/EC, 2004/108/EC, 2006/95/EC, ATEX 95, IEC/ EN 60204-1, IEC/ EN, 61000-6.1- 6.2		
Disinfection applications	Food & Beverage, Potable water (WRAS), Process water.		

<sup>1</sup> Based on the regeneration of the softener ones a day for 80 minutes.

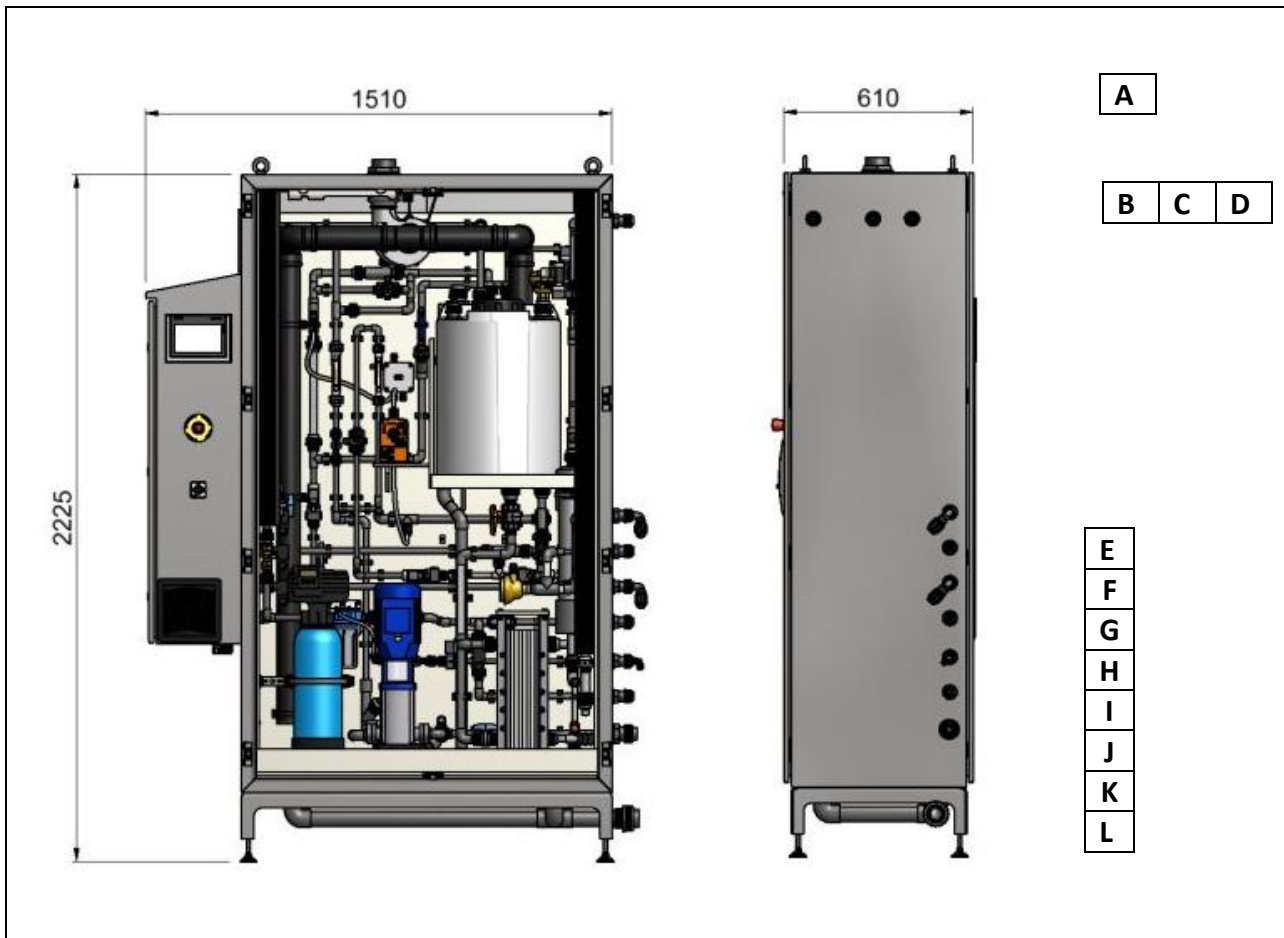
<sup>2</sup> The product quality is depending on water quality, water volume, temperature, salt specification.

<sup>3</sup> BPR 528/2012; Biocide Product Registration 528/2012.

<sup>4</sup> EN16370; Chemicals used for treatment of water intended for human consumption. Sodium chloride for onsite electrochlorination using membrane cells.

<sup>5</sup> Consult supplier when intended use of other types of generic salts.

<sup>5</sup> This is exclusive the storage tank.



	Connections to be made onsite	Installation side		Piping	Specifications	
A	Hydrogen discharge according to ATEX 95	DN50	d63 mm	d63 mm, PVCU	Max. 10 meter, horizontal, vertical and/ or rising	Max. 3 turns/ bends Connect to the outside
B	Aeration	DN15	d20 mm	PVCU	Connect to the outside	
C	Product to drain					
D	Product to storage tank	DN15	d20 mm	PVCU		
E	Brine supply membrane cell	DN15	d20 mm	d16, Nylon		
F	Caustic drain	DN15	d20 mm	PVCU		
G	Filling brine tank	DN15	d20 mm	PVCU		
H	Water supply (drinking water quality)	DN15	d20 mm	PVCU	>2,5 bar(g) <5,0 bar(g)	Max. 15 <sup>o</sup> dH
Return valve is needed in water supply.						
I	Brine supply softener	DN15	d20 mm	d10, PE		
J	Filling break tank	DN15	d20mm	PVCU		
K	Process water inlet	DN25	d32 mm	PVCU		
L	Drain	DN40	d50 mm	PVCU		
	Drain brine tank	DN20	d25 mm	PVCU		
	Ethernet cable	Connect in the electrical cabinet				