

OSEC® L 5 - 20	OSEC L 5	OSEC L 10	OSEC L 15	OSEC L 20
Capacity equivalent chlorine (kg/day - lbs/day)	2.4 / 5.3	4.8 / 10.6	7.2 / 15.8	9.6 / 21.1
Number of cells	1	2	3	4
Cell design	Undivided, bipolar electrodes, horizontal casing			
Weight (kg / lbs)	48 / 106	53 / 117	58 / 128	63 / 139
Process requirements:				
§ Operating water* <sup>1</sup> ( l/h - US gal/h)	14 / 3.7	28 / 7.4	42 / 11.1	56 / 14.8
§ Salt* <sup>2</sup>	approx. 3.1 kg/kg Cl <sub>2</sub> (3.0 lb/lb Cl <sub>2</sub> )			
§ Power consumption* <sup>3</sup>	approx. 4.1 kWh/kg Cl <sub>2</sub> (1.81 kWh/lb Cl <sub>2</sub> )			
By-Product stream:				
§ Hydrogen gas diluted* <sup>4</sup> (m <sup>3</sup> /h – cfm)	5.93 / 3.47	11.37 / 6.95	17.80 / 10.42	23.74 / 13.89
§ Softener reject water	34 l (9 gal) per regeneration cycle			
Product concentration	approx. 7 g/l ± 0.5 (0.7% ± 0.05)			
Cell voltage, max. (each cell)	15 V DC			
Cell current (each cell)	32.5 A			
Electrical supply	1/N/PE AC 100-240 V, 50/60 Hz			
Installation power kVA	0.93	1.61	2.29	2.98
Cos φ	0.95			
Enclosure rating, controller box	IP 65 (NEMA 4)			
Enclosure rating, connection box	IP 65 (NEMA 4)			
Ambient temperature during operation, max.	5 - 45 °C (41 - 113 °F)			
Storage and transport temperature	-5 - 60 °C (23 - 140 °F)			
<b>Connections</b>				
Dilution water	PVC DN15 (G 1/2" A / 1/4" NPT Adapter)			
Brine inlet	Tube connector (ID4x1 mm tube)			
Hypochlorite outlet	PVC DN 25 (1")			
<b>Safety accessories</b>				
Recommended safety accessory	Hydrogen gas leak detector (refer to local requirements)			
Recommended safety accessory	Chlorine gas leak detector with flash / horn detector			
<b>Installation recommendations</b>				
Piping for hydrogen dilution blower	Material: PVC, HDPE or PP; length of pipe and number of elbows: max. 40 m length of pipe, max. 20 elbows. Pipeline valves are not allowed. Consult for details if requested.			
Brine tank for salt saturation	The softened water used for refill to be supplied by an independent softener. Material. Resistant against brine, e.g. PE, PP, PVC, PA, GFK Consult for details if requested.			
Product tank for hypochlorite (NaClO)	Vertical distance from NaClO outlet of the unit to the storage tank is maximum 10 m (33 ft). Pipe material: PVC. Consult for details if requested.			
Collecting basin	Product tank shall be placed in a collecting basin. Collecting basin should come with a leakage detector. Capacity of the collecting basin selected according to local regulations. Consult for details if requested.			
<b>Multiple units</b>				
Duty/Redundant configuration	Units can be operated in parallel, supplied by common brine tank and feed to common product (NaClO) storage tank. Consult for details if requested.			

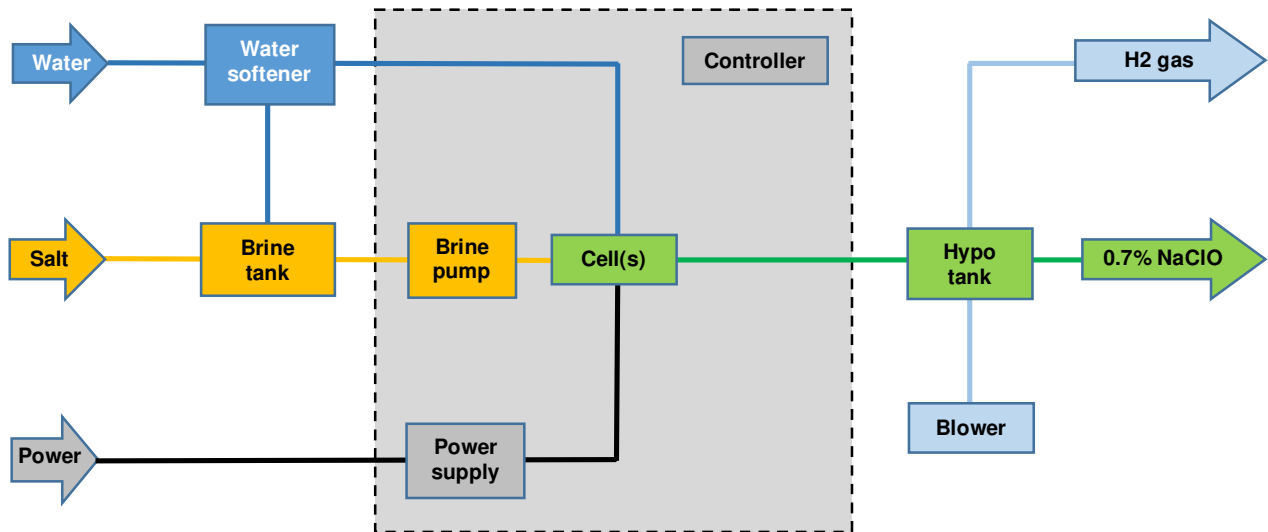
\*<sup>1</sup> Potable water, connection according to DIN 1988 T4/ DIN EN 1717, constant primary pressure min. 2 bar (29 PSI) to max. 5 bar (72 PSI), hardness max. 36° dH, temperature 5 - 30°C (41 - 86°F)

\*<sup>2</sup> Sodium chloride must meet EN14805 standard. Salt of the type OSEC® Salin preferably used in Europe.

\*<sup>3</sup> Power consumption measured in DC dependent on system operating within specified parameters.

\*<sup>4</sup> Air required for dilution to bring hydrogen < 25% of lower explosive limit.

## Process flow diagram



## Dimensions

OSEC® L (W x H x D)	746 x 1143 x 368 mm (30" x 45 x 15")
Space for maintenance and service	
§ Empty space on the front panel	min. 800 mm (32")
§ Empty space on both sides	min. 800 mm (32")
Product tank	200 / 500 / 800 / 1000 l
Recommended size	typ. 12-24 hour minimum product storage
Volume of brine tank	130 kg (287 lbs); only salt tablets allowed



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