



# HYPOCHLORITE SODIUM PRODUCTION

## Solutions for the production of sodium hypochlorite

KERN S & D S.L. develops saline electrolyzers to meet the technical-economic needs of customers.

Productions from 10 g/h to 1,700 g/h

TECHNICAL SPECIFICATIONS	
Net savings	80%
Activated Electrodes	
Operating Temperature	Ambience
Salt (100%)	5 – 6 g/l of water
Fully automated installation	



MODELS	OUTPUT (g/h)	AMPERAGE	VOLTAGE
K10	10	10	5
K50	50	30	10
K100	100	30	12
K130	130	30	16
K150	150	30	20
K250	250	60	20
K330	330	60	20
K500	500	120	20
K1000	1.000	150	24
K1700	1.700	225	42

- HIGH RELIABILITY
- EASY TO MAINTAIN
- AUTOMATIC CONTROL
- SAFE OPERATION
- NO ENVIRONMENTAL IMPACT

- MODULAR AND SCALABLE
- ECONOMIC SAVING (Low operating and maintenance costs)
- HIGH ENERGY EFFICIENCY
- SIGNIFICANT REDUCTION in the associated risks of storage, handling and road transport



Photo Saline Electrolyzer



The exclusive technical features of this system make it suitable for a wide range of applications:

Wide range of applications			
			<ul style="list-style-type: none"> <li><input type="checkbox"/> Quematical</li> <li><input type="checkbox"/> Industrial</li> <li><input type="checkbox"/> Stationer</li> <li><input type="checkbox"/> Textile</li> <li><input type="checkbox"/> Agroindustrial</li> <li><input type="checkbox"/> Hotelier</li> <li><input type="checkbox"/> Hospitaller</li> <li><input type="checkbox"/> Food sector</li> <li><input type="checkbox"/> Agrobusiness</li> <li><input type="checkbox"/> Oil &amp; Gas</li> <li><input type="checkbox"/> .....</li> </ul>
<p style="text-align: center;"><b>Disinfection of waters</b></p>			

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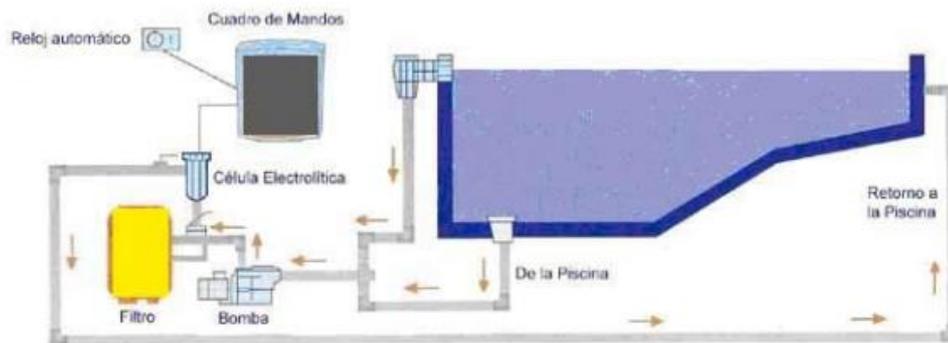
## HYPOCHLORITE SODIUM PRODUCTION

### Sodium hypochlorite production technology

KERN S&D has a groundbreaking technology for the production of sodium hypochlorite.

The plants designed and developed by KERN S & D, employ a safe technology, respectful with the environment and highly competitive due to its low investment and low operative costs (high electrical efficiency and degree of automation).

The system works by diluting a small amount of salt (5-6 g / l) into the pool water when installing the salt chlorinator. The water, slightly salted, is passed through an electrolyser that has previously been inserted into the return pipes of the purification system of the pool.



Saline electrolysis type diagram

### Main advantages for health

The low salt concentration is enough to inhibit the formation of bacteria and algae and prevents eye and dermatological disorders. The formation of chloramines is continuously destroyed by the electrolyser.

It is a safe system, since it avoids risks of the inadequate use of chemical products, eliminating the need for storage, handling and purchase of these products.

**Uses water, salt and electricity**

Respect and protection of the environment because it recycles all the elements.

Brine electrolysis systems allow a saving of 80% in maintenance and 100% in chemical products.

The technology of this system is adapted so that on its own it automatically produces the necessary natural disinfection. It is an automatic system that only needs to control the pH balance.