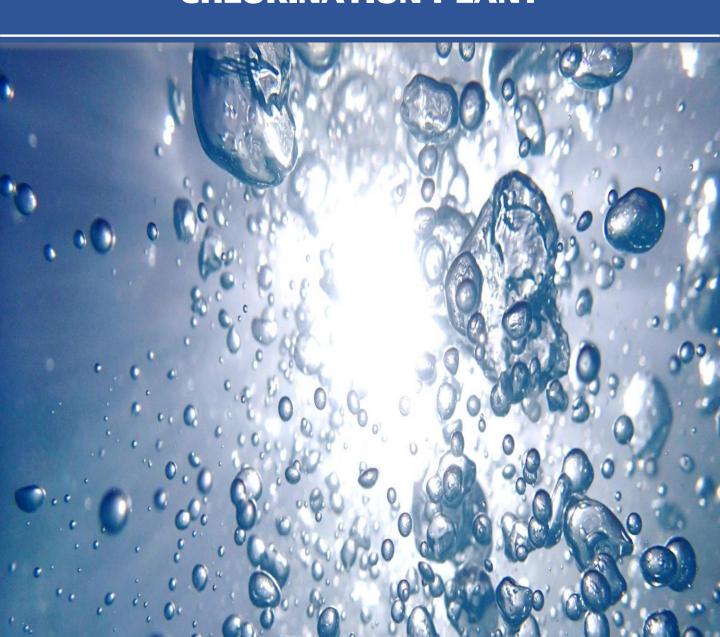


CHUNG - AM

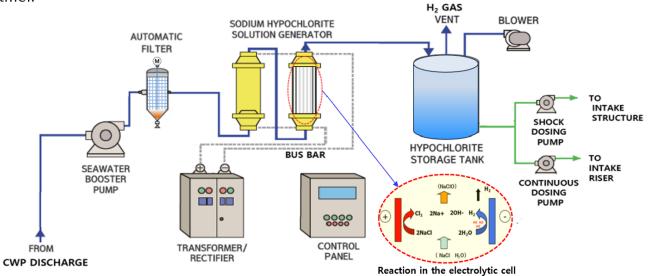
Water Treatment & Engineering CO., LTD.

ELECTRO-CHLORINATION PLANT



ELECTRO-CHLORINATION PLANT

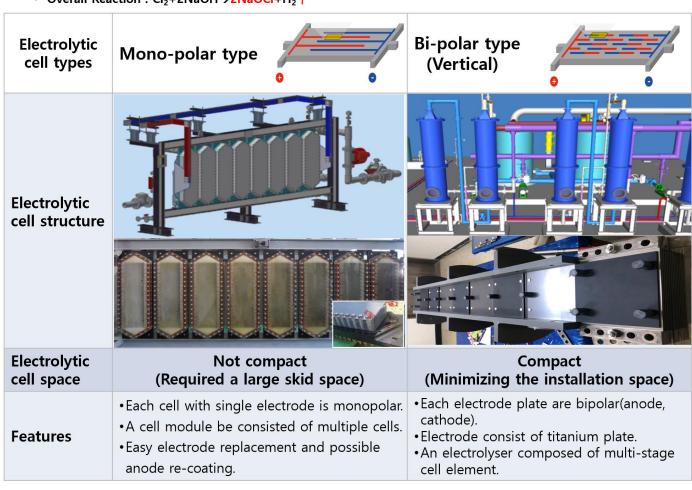
The purpose of electro-chlorination plant prevent marine life accumulation by generating sodium hypochlorite through direct seawater electrolysis and injecting it into seawater intakes. When constant seawater flow is delivered through **the electrolytic cells** of the sodium hypochlorite generator, the seawater is electrolyzed by the DC current from the rectifier.



The following reaction occurs to generate sodium hypochlorite from sodium chloride in seawater:

Anode(+) : 2Cl⁻ → Cl₂+2e⁻
Cathode(-) : 2H⁺ + 2e → H₂ ↑

Overall Reaction : Cl₂+2NaOH→2NaOCl+H₂↑



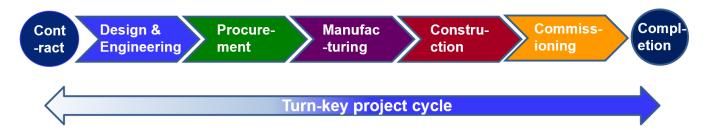
BUSINESS & SERVICES

1Turn-key project

We can carry out turnkey projects that supply everything from engineering & design, procurement, manufacturing, delivery, installation, commissioning, performance testing, and supervision services.

Electrolysers, which are core facilities directly related to the lifetime and efficiency of seawater electro-chlorination plants, have been developed based on the know-how accumulated through long experience.

As a company specializing in total solutions for seawater electro-chlorination plants, we will meet 100% of our customers' needs.



2 Maintenance and Repair

We have accumulated extensive know-how through long experience with electrolytic cells (as electrolysers), which are the core facilities and collection of electrochemical technologies in seawater electro-chlorination plants. Additionally, these can be manufactured regardless of type and capacity.

For electrolysers or other facilities in existing plants supplied by global suppliers, we can **design**, **manufacture**, **maintenance**, **repair**, **replace**, and even create **new ones**.

<u>In particular, when</u> the electrode in the electrolysis device reaches the end of its life, the electrode or the electrolyser can be replaced, allowing the system to be restarted.





본사 및 공장 : 대구광역시 달서구 성서공단북로 3길 36 대표전화. 053-583-8167 Fax. 053-583-2366

 $Head quarters\ and\ Factory:\ 36,\ Seongseogong danbuk-ro\ 3-gil,\ Dalseo-gu,\ Daegu\ Metropolitan\ City$