

OFF-SHORE CHLORINATION

Tiaano 0.2pt, an advanced offshore electro chlorination system, producing sodium hypochlorite by using sea water to prevent biological fouling in off shore applications. Tiaano 0.2 pt designed based on sodium hypochlorite requirements in kg per hour and the physical plant layout..

System Capacity:

Typical marine system (offshore) throughput will range from 0.050 kg per hour for a small offshore cooling system to 12 kgs per hour for large platforms.

Application:

- Offshore Oil & Gas Exploration Drilling Rigs: Jack-up, Semi-submersible, Drill ship.
- Offshore Oil & Gas Production Development: Gravity base, FPSO TLP, Semi-submersible.
- Ships and Vessels: Oil tanker, naval fleet auxiliary, Supply boat, naval fleet ship, Ferry, Container ship, Cruise ship, Cargo carrier, Gas carrier, Barge.

Usage:

Sodium hypochlorite, also known as " hypo ", " bleach" or "liquid chlorine," is a powerful oxidant. It is used worldwide for prevention of ...

- **Micro-fouling** refers to a layer of slime over surface. On heat exchanger plates and tubes, micro-fouling can reduce heat transfer efficiency by as much as 25% and also accelerate corrosion. Periodic maintenance to clean the surfaces is required, creating downtime and increasing running costs.
- **Macro-fouling** refers to barnacle and mussel growth. Inside the seawater pipes and cooling systems, macro-fouling can gradually restrict seawater flow and consequently reduce flow and heat transfer efficiencies. In extreme cases, pipes and valves can become completely blocked, resulting in equipment damage and major system shutdowns.
- **Hypochlorite continuous and shock dosing** are used to effectively control micro and macro-fouling in seawater applications. In continuous dosing, a low level of chlorine is continually supplied. This protects against the majority of bio-fouling, but unfortunately certain macro organisms can become resistant to low level dosing. These macro organisms can be eliminated by shock dosing, where much higher levels of chlorine are applied for a short time at regular intervals.



Electrolyzer for Naval ship



Off shore Electro Chlorinator



Platinized Titanium Electrolyzer



Replacement of Cells



Electrochlorinator for ship