

Marine Growth Prevention System

Biofouling in sea water lines are a perennial problem caused due to the barnacles, mussels and other forms of marine life in the sea water. For marine & offshore world such as Offshore platforms, FPSO, Naval vessels, Cruise ship, cargo ships, Oil rigs etc seawater is the only source for cooling and fire water.

In such sensitive applications biofouling or the marine growth in the seawater line is a huge concern as it restricts cooling water flow in piping systems thus affecting the heat-transfer in the heatexchangers and condensers (clogging).

RT Marine™ Series of Marine growth Prevention System (MGPS) when fitted, generates various oxidants and radicals by sea water electrolysis including sodium hypochlorite onsite which in turn can be used to disinfect sea water thus preventing marine growth.

RT Marine™ MGPS incorporates the state of art bipolar Chloromarine® disc electrolyzer or Hypopac® concentric tubular electrolyzer for generating free radicals. The electrolyzer design incorporates free removal of hydrogen and also prevents scaling due to its ingenious design. These self cleaning design ensures near maintainace free operation without any acid cleaning, ensuring the system to perform consistently for years together.



RT Marine™ MGPS for Floating Vessels

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| MODEL | Cl2 as NaOCl Production Capacity(Kg/day) | Quantity of Seawater to be treated @ 0.5ppm (m³/h) | Quantity of Seawater to be treated @ 1ppm (m³/h) | Max seawater Flowrate (m³/h) |
|----------------|--|--|--|------------------------------|
| RT MARINE S150 | 3.6 | 300 | 150 | 5.6 |
| RT MARINE S250 | 6.0 | 500 | 250 | 5.6 |
| RT MARINE S400 | 10.0 | 800 | 400 | 5.6 |
| RT MARINE S500 | 12.0 | 1000 | 500 | 5.6 |
| RT MARINE S750 | 18.0 | 1500 | 750 | 5.6 |
| RT MARINE S1K | 24.0 | 2000 | 1000 | 5.6 |
| RT MARINE S2K | 48.0 | 4000 | 2000 | 5.6 |
| RT MARINE S3K | 72.0 | 6000 | 3000 | 5.6 |
| RT MARINE S4K | 96.0 | 8000 | 4000 | 5.6 |
| RT MARINE S5K | 120.0 | 10000 | 5000 | 5.6 |
| RT MARINE S6K | 144.0 | 12000 | 6000 | 5.6 |

* Systems designed for shipboard applications for both new builds and retrofits.
* Systems can be supplied as a skid mount or containerized, fully integrated package or as loose components.

RT Marine™ MGPS for Hazardous Environment

| MODEL | Cl2 as NaOCl Production Capacity(Kg/day) | Quantity of Seawater to be treated @ 1ppm (m³/h) | Quantity of Seawater to be treated @ 3ppm (m³/h) | Max seawater Flowrate (m³/h) |
|----------------|--|--|--|------------------------------|
| RT MARINE H150 | 3.6 | 150 | 50 | 5.6 |
| RT MARINE H250 | 6.0 | 250 | 83 | 5.6 |
| RT MARINE H400 | 9.6 | 400 | 133 | 5.6 |
| RT MARINE H500 | 12.0 | 500 | 167 | 5.6 |
| RT MARINE H750 | 18.0 | 750 | 250 | 5.6 |
| RT MARINE H1K | 24.0 | 1000 | 333 | 5.6 |
| RT MARINE H2K | 48.0 | 2000 | 667 | 5.6 |
| RT MARINE H3K | 72.0 | 3000 | 1000 | 5.6 |
| RT MARINE H4K | 96.0 | 4000 | 1333 | 5.6 |
| RT MARINE H5K | 120.0 | 5000 | 1667 | 5.6 |
| RT MARINE H6K | 144.0 | 6000 | 2000 | 11.2 |
| RT MARINE H8K | 192.0 | 8000 | 2667 | 11.2 |
| RT MARINE H10K | 240.0 | 10000 | 3333 | 11.2 |
| RT MARINE H12K | 288.0 | 12000 | 4000 | 16.8 |
| RT MARINE H15K | 360.0 | 15000 | 5000 | 16.8 |
| RT MARINE H18K | 432.0 | 18000 | 6000 | 22.4 |
| RT MARINE H20K | 480.0 | 20000 | 6667 | 22.4 |

The RT Marine-H system is typically used for areas under Hazardous Area Classification.

- Improved Heatexchanger Efficiency
- Prevent Biofouling in Seawater Pipelines
- Avoid Break Downs and Down Time
- Save On Recurring Maintenance Cost



RT Marine™ Benefits

- Complete protection against bio fouling
- Consistent disinfection
- Easy to install, operate and service
- Instant operation
- Self cleaning Electrolyzer design
- Modular construction
- Eliminates hazardous material storage
- Corrosion proof design

Applications

Offshore Process Platforms,
Oil Rigs, FPSO,
Navy Vessels & Cruise Ships



Contact

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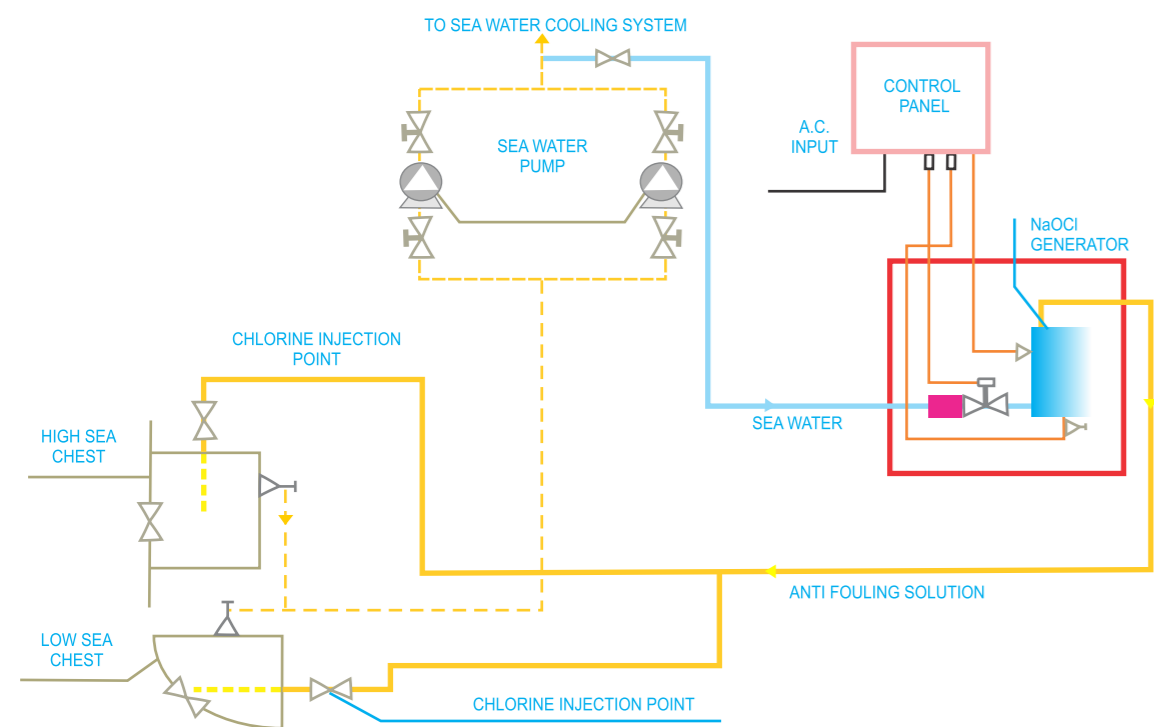
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Typical RT Marine™ System



Marine™
PREVENT BIOFOULING

electrochemical

MARINE GROWTH PREVENTION SYSTEM

Dealers / Agents

