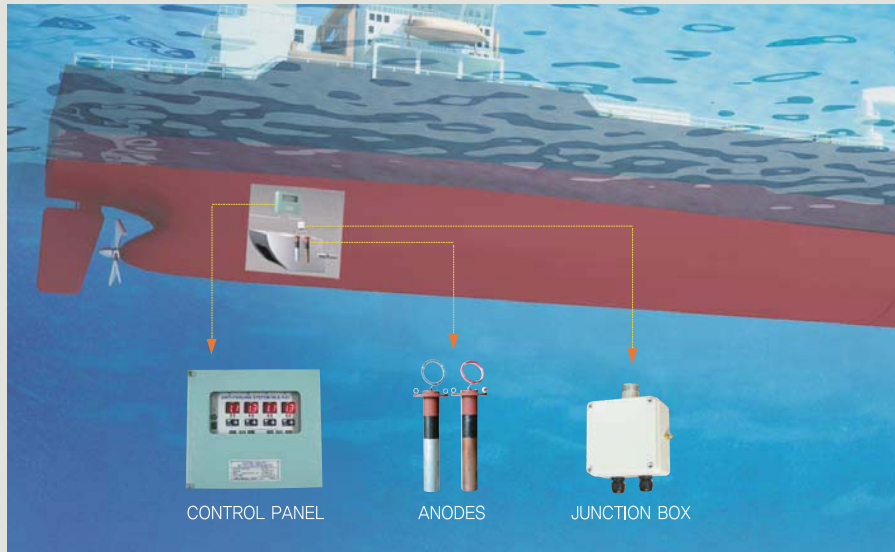


Main Products ANFOSYS®

Anti-fouling System (M.G.P.S.–Marine Growth Preventing System)

Supply Reference : 9,572 shipsets



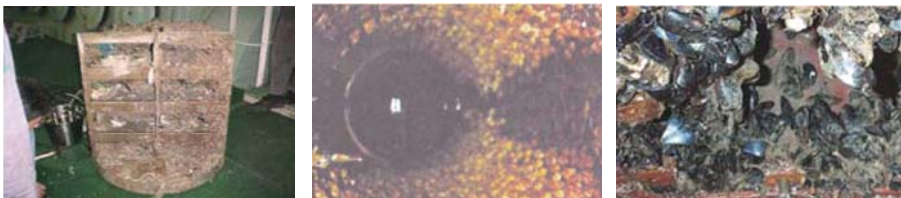
CONTROL PANEL

ANODES

JUNCTION BOX

Anti-fouling System (M.G.P.S.)

The world best system for Anti-fouling



without K.C. SYSTEM (Before)



with K.C. SYSTEM (After)

ANFOSYS® Anti-fouling system (M.G.P.S.) has been designed based on the ship's flow rate, lifetime and dosing rate (ppb) to kill marine bio-fouling and to suppress fouling corrosion in sea water pipe work effectively.

The Cu anode produces copper ions to prevent marine growth and the Al / Fe anode produces anti-corrosive layer to suppress corrosion. The anodes between Cu–Al and Cu–Fe are normally adopted according to the material of pipe line as below:

Cu–Al anode: Steel pipe line

Cu–Fe anode: Non-steel (Cu–Ni) pipe line

Our Anti-fouling System is well known to the world wide clients on following features.

- Capable of auto current change acc to 2 or 3 step flow operation
- Touch screen controller is applicable
- Low installation/maintenance costs
- Environment-friendly with normal 2ppb (parts per billion) dosing rate of copper ion
- Very convenient operation on easy and sophisticated controller
- Data communication and alarm signal can be connected to ship's AMS
- Simple installation to all kinds of new building as well as retrofitting ships

There are three choices of typical installation of anodes.

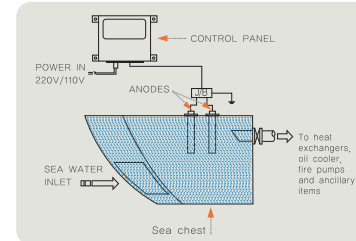
The first method is to install anodes in Sea chest (Case 1) and the second is on Strainer (Case 2) and the third is in separate Anode treatment tank (Case 3).

There are also merit and demerit on these three different installation i.e. the anodes can be renewed/checked only while vessel is in dry dock in case anodes are installed in sea chest.

Also the anodes are free from any renewal/maintenance/inspection even while vessel is afloat in case anodes are installed in strainer but the sea chest and inlet pipe up to filter are not protected with the strainer installation, then they are regularly cleaned during vessel's dry docking.

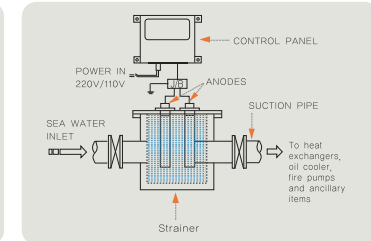
So for the efficient control from the sea chest and easy maintenance of anode the anode treatment tank is provided to inject ionized sea water into the sea chests as third method where system should be present.

Installation Case 1



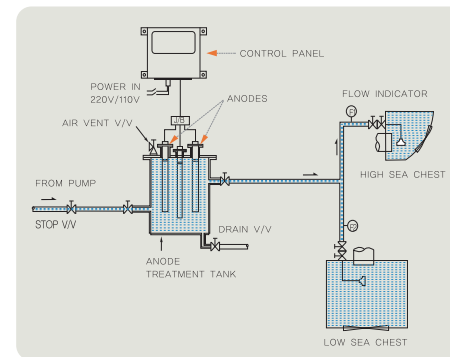
Anodes mounted in Sea Chest

Installation Case 2

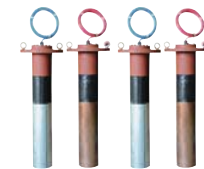


Anodes mounted in Strainer

Installation Case 3



Anodes mounted in Anode Treatment Tank



ANODES



CONTROL PANEL