

ANTI FOULING SYSTEM

Benefits of our Anti-Fouling System Include:-

- Reduction in power requirements
- Low maintenance system
- No handling or storage of chemicals required
- Environmentally acceptable

Description

The cathode is formed with an insulated steel frame containing copper and aluminium anodes making use of impressed current system basics. The anode/cathode unit is suspended / placed at the pump inlet so that all the water entering the pump must pass the electrode unit. Dosage levels of copper ions are extremely small and measured in micrograms per litre of seawater. Therefore, relatively small quantities of copper are required to provide protection dependent upon the flow rate and life required.

Anti fouling system consists of two parts “the electrode unit and the control panel. The electrode assembly contains mainly copper anodes. Aluminium Anodes are used in combination with copper in some applications. The actual number and size of the anodes is calculated to suit each installation and available space for mounting the electrode unit. The anodes are connected to the constant current rectifier located within a safe area. For variable pump flow, an intelligent logic is utilized in power supply to provide right dosage of ions.

Basically there are three types of systems.

1. Conventional grid Anti Fouling System - The conventional Grid Anti-Fouling system has the capability to deliver ions in the open sea at the mouth of the pipe or channel which is at risk of fouling.

2. Strainer System – Strainer Anti-Fouling systems are fairly small units shaped like Strainers and are attached at the mouth of the pipe or at the mouth of the pump inlet. These are mostly vertically installed.

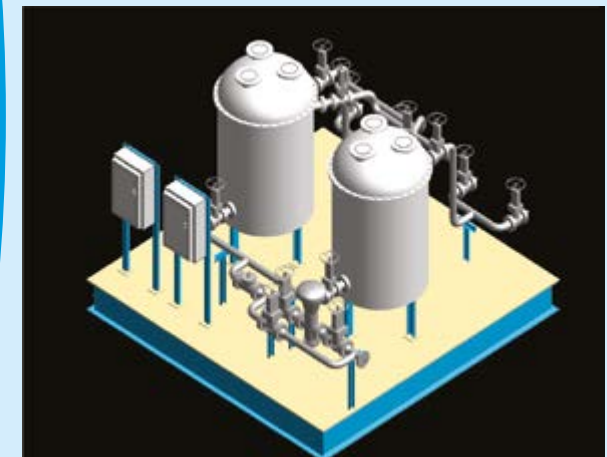
3. Skid Mounted Anti-Fouling System – Skid Mounted produces the copper ions in a process vessel. The produced treated water is then delivered to the right part of the inlet in the right proportion to set the required ppb level.

All these systems can be prepared with logics to control automatically the production of ions and dispatch of ions depending on the variation in flow rate. The system is intelligent enough to decide the production from minimum to the maximum designed while the flow is zero to the maximum for the pump.

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Conventional grid Anti Fouling System



Skid Mounted Anti-Fouling System