

SKID MOUNTED TANK SNSAFE SYSTEM

BIO-FOULING PREVENTION SYSTEM

PUMP OVERVIEW

The ClydeUnion S&N Pumps skid mounted tank SNSAFE system offers the most comprehensive bio-fouling prevention solutions package on the market. Strategic implementation of our system increases the service life of pumps, and maintains flow efficiency throughout a rig/vessel.

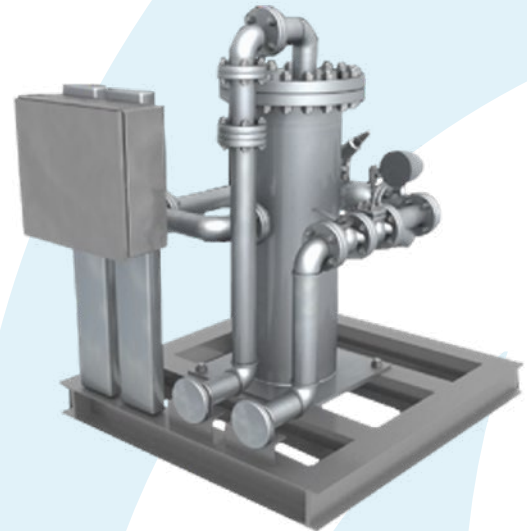
- Delivers an impressed DC current from a power converting control panel to strategically placed copper anodes in the seawater system
- The passage of the DC current through the copper anode releases copper ions into the seawater flow at a predetermined rate
- The copper ions deter the entry and growth of fouling organisms

DESIGN

- Designed to treat water at a calculated dosage. The treated water is released at the inlet area of the pump at a dosage commensurate to the pump flow rate
- Multiple inlets can be treated with water from a common tank and controller
- Plug and play replacement for Sodium Hypochlorite systems in most cases

EFFECTS OF BIO-FOULING

- Creates a thermal barrier around a pump motor and reduces the amount of heat that can be dissipated
- Accelerates corrosion by impingement/erosion, pitting and cavitation
- Reduces fluid flow throughout the piping of the vessel/rig
- Restricts and/or creates turbulent fluid flow at pump intakes

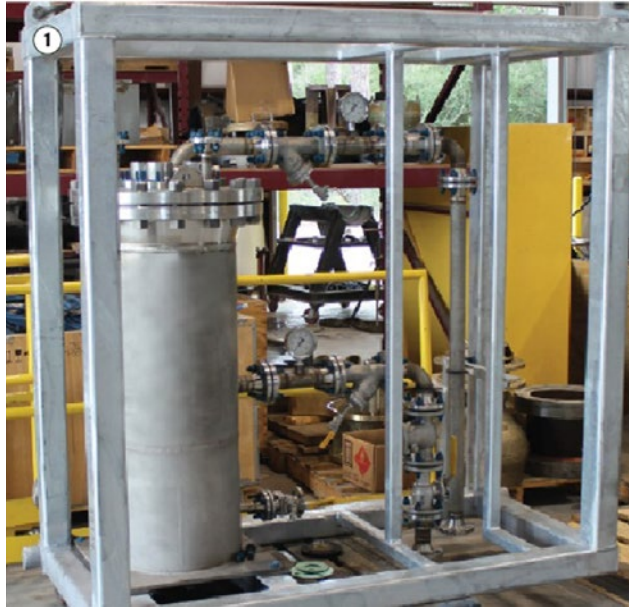
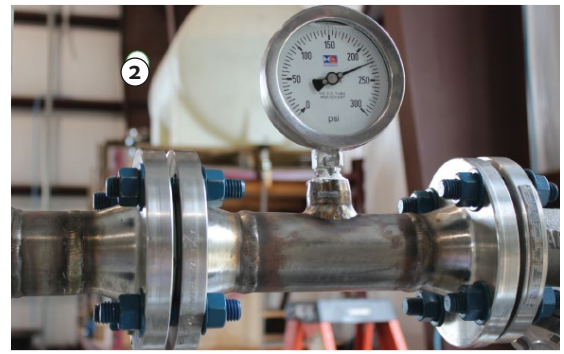


SYSTEMS BENEFITS

- Eliminates bio-fouling macro-organisms
- Low initial cost
- Replaceable anodes
- Minimal maintenance
- Pre-calculated anode life
- Environmentally safe
- Low operating cost
- Minimal space requirement

FEATURES + BENEFITS

- ① Water treatment tank
- ② In-line pressure gauges
- ③ All 316 stainless steel hardware (duplex available)



EFFECTS OF SEA LIFE GROWTH ON PUMPS



Sea life growth covering the pump bowls and intake screen



Sea life growth inside the pump intake and on the pump shaft

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