Blume Antifouling System

Marine Growth Prevention Technology

Features of the system include:

- Insures the safe and efficient operation of sea water systems by preventing the attachment and growth of marine organisms.
- Environmentally friendly. Treatment level is ≤ 2 PPB of electrolytically produced ionic copper, which is effective against both macro- and micro-biological fouling.
- Proven technology...hundreds of installations since 1978.
- Safer and more convenient than chemical injection systems - no handling or storage of hazardous or toxic chemicals.
- Initial capital and operating costs are lower than sodium hypochlorite systems.
- Continuous corrosion and scale inhibition through the introduction of electrolytically produced aluminum hydroxide.
- Anodes are supplied fully assembled to minimize on-site work, and are easily installed from inboard.
- Coated anodes improve operational performance by assuring bottom-up wear, which prevents 'hour glassing' and potential damage to downstream equipment.
- Anodes and controller incorporate wear device circuitry which, when activated, triggers an alarm to notify the crew of a problem; e.g., anodes need replacement.



Representative User's List:

Noble Drilling Transocean Ensco Drilling Seadrill **Atwood Oceanics** Queiroz Galvão **ADNOC** Vantage Drilling Helix ESG Nabors Drilling Shell Chevron Murphy Oil Noble Energy Foss Maritime Seaspan

Blume Worldwide Services

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E-mail: wjblume@blumesales.com www.blumeworldwideservices.com Proudly Made in the U.S.A.
Incorporating the Latest
Marine Growth Prevention Technology

Since 1978 •

Please see other side . . .

This...



Or . . . A Blume Antifouling System Installation.



In-Line ►

◄ Treatment Unit



Anodes can be installed in a strainer (shown above), in an anode housing, in a tee, in the sea chest, etc.

The anodes are installed in a treatment tank (shown above). A side-stream of water (typ. ≤ 100 gpm) is passed thru the unit and a copper-rich concentrate is formed. The treated solution is then proportionately distributed to treat all the users (see the distribution manifold, lower right of skid).

Cop per and Aluminum Anodes > 30" are shown... Available in 6" - 35"

