

Biofilm-associated risks

- Reduction of Heat Transfer Efficiency.
- Root cause of Microbial Induced Corrosion (MIC).
- Increased risk for Legionella growth.
- Reduction of biofouling treatment effectiveness.

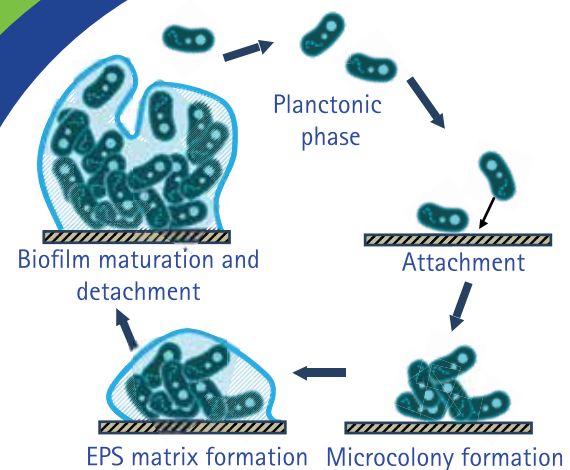


On-line biofilm monitoring system

- A key input to control equipment and system operators.
- Early warning for biofilm buildup risk.
- Provides opportunity to initiate mitigation activities well before biofilm associated risk occur.
- Suitable for fresh, brackish, and sea water environments.
- Real-time feedback to evaluate the effectiveness of the applied control dosing regime.

Service package includes:

- Identification of best location(s) for biofilm monitoring.
- Installation and commissioning of biofilm system.
- Bi-weekly data analysis with full reports by our experts.
- Data gathering options include site visit by H2O field technician or customer-assisted data retrieval.



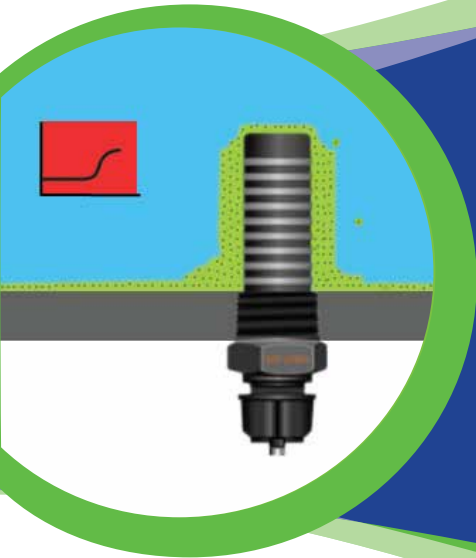


biosafe®

A service of **H₂O** Biofouling Solutions B.V.

Working principle

- Probe installed in flow cell as a side stream of cooling water system.
- The biofilm system is an electrochemical biofilm activity monitoring system.
- It consists of stacks of stainless steel or titanium ring electrodes, separated by a non-conductive resin.
- Several times per day the probe is polarized by an external power source, creating ideal conditions for microorganisms to settle and biofilm to develop.
- Deviations of the signal from the baseline values provide an indication of microbial fouling.



Only H2O BFS offers the best technique to MONITOR in real-time the effectiveness of your biofilm control treatment. If your current treatment proves to be ineffective, the Biosafe probe will reveal early onset of biofilm buildup before biofilm-associated risks arise.



Other H2O BFS Services:

Biovision macrofouling monitor

- Provides real-time insight in efficacy of biofouling mitigation procedures. Designed to mimic actual conditions within an intake and (cooling) water system (e.g. flow velocities and turbulence).

Ecodosing™

- A complete solution to biofouling control. Our Ecodosing service allows our customers to achieve a significant reduction of chemicals used in the biofouling control process. In practice this means a cost reduction, emission reductions, energy optimization and operational performance improvement.

 **H₂O**
Biofouling Solutions B.V.