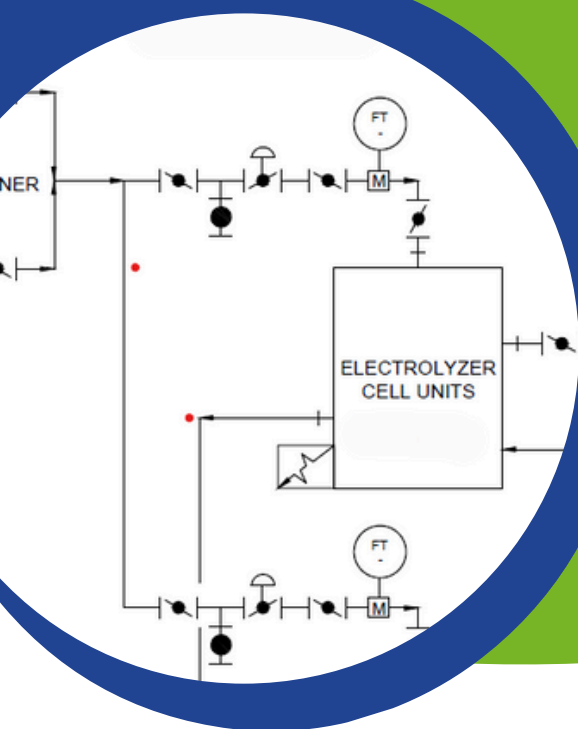


Engineer Biofouling Out of Your System

Effective biofouling prevention begins with proper design. Without an efficient dosing and dispersion strategy, even the most powerful biocides can fail to perform, leading to long-term problems like **biological growth, scaling, corrosion**, leading to unexpected **maintenance costs**.

Biodesign ensures your seawater intake and cooling systems are engineered for biofouling prevention from the start, reducing operational risk and maximising lifetime efficiency.

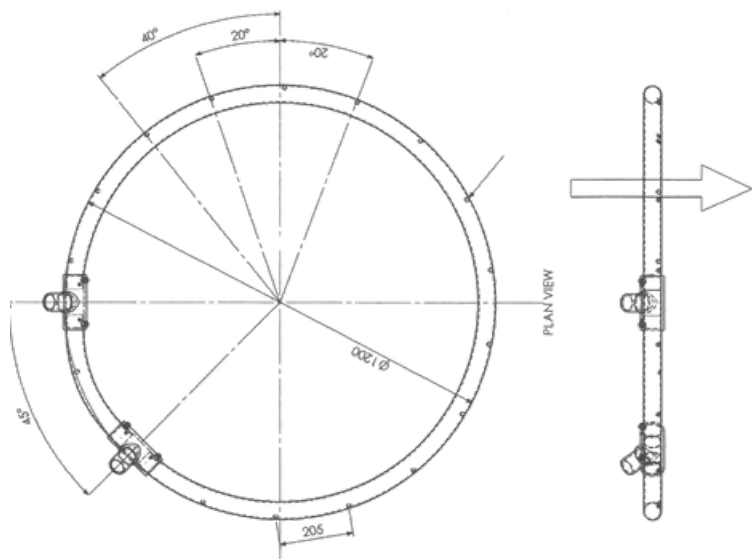


Technical specifications for Electrochlorination resulting in guaranteed effectiveness:

- EC Plant main data sheet, providing main plant equipment details.
- Including PIDs PFDs,
- Piping and Instrumentation Diagram
- Concept Layout
- Concept Process Description
- Process Flow Diagram

Through **CFD modeling**, field-proven dosing strategies (like EcoDosing™), and deep engineering experience, we help EPCs, plant owners, and engineers create seawater systems that are:

- ✓ Fully protected
- ✓ Chemically optimized
- ✓ Fabrication-ready
- ✓ Guaranteed effective



What We Offer

New Plants

- Integrated biofouling control from the seawater intake onwards
- Design of scalable Electrochlorination systems with optimized layout and dosing structure
- CFD-backed biocide dispersion modeling for chlorine, ClO₂, or PAA

Existing Plants

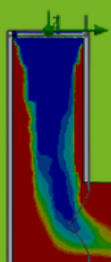
- Performance health check on current biocide dosing setups
- Dosing optimization and maintenance strategies
- System modifications to reduce chemical consumption and improve efficiency

Engineering Support Includes:

- Support in seawater intake design to reduce risk of ingress of biological species
- Screening system selection and capacity planning
- Electrochlorination system sizing and integration
- Alternative biocide systems:
- Concept layouts and process descriptions
- Technical drawings (eg P&ID, PFD)
- Fabrication drawing dosing structures including material selection.



Biodesign is your guarantee for long-term system performance. Whether you're building a new plant or upgrading an old system.



H2O BFS helps you do it right from the start.