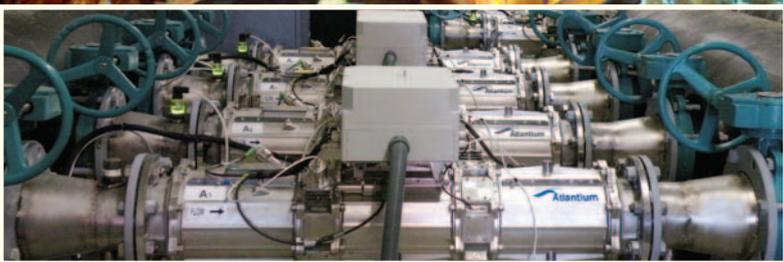


An Aquatic Experience as Nature Intended



The solution for a natural environment!

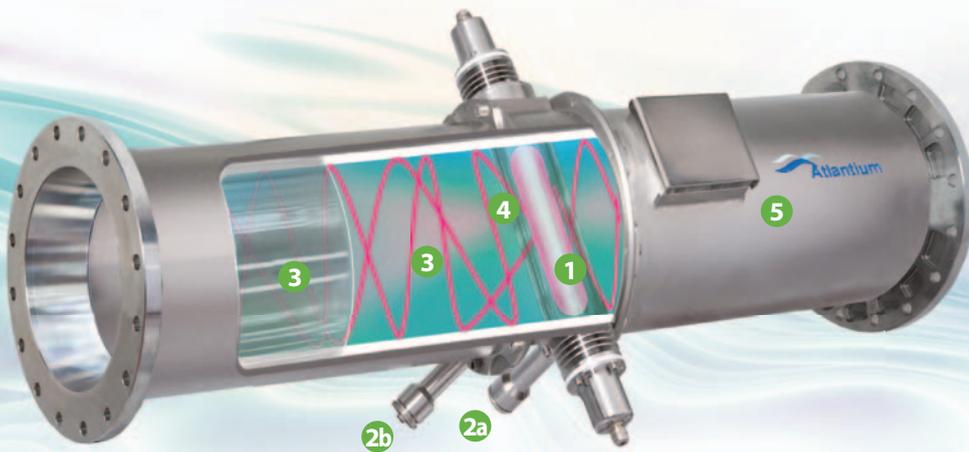
Only Medium Pressure UV Protects All Aquatic Life

Aquariums need to protect many aquatic species that are sensitive to different pathogens, but different pathogens are sensitive to different wavelengths of UV light.

Next-Generation UV Technology for Green & Sustainable Ecosystem

Atlantium Hydro-Optic system uses **full spectrum polychromatic UV light**, that leverages the entire UV germicidal spectrum to inactivate and destroy microorganisms, protecting all aquarium aquatic life. It eradicates bacteria such as *Vibriosis*, viruses such as *VNN*, fungi such as *Saprolegnia* and parasites such as *Kudoa Neorophila*, that threaten the aquatic life environment.

Atlantium uses fiber optic and hydraulic principles to **optimize UV energy efficiency** and enable uniform dose distribution to protect the entire water volume.



The Atlantium Difference

Medium pressure only needs a dose of $93\text{mJ}/\text{cm}^2$ to achieve 4 log virus disinfection of hard-to-kill viruses like adenovirus. But it takes over $186\text{mJ}/\text{cm}^2$ and often much more to get the same performance from low pressure lamps.

- 1 Medium pressure broad spectrum UV power protects aquatic life with more than one action mechanism:** polychromatic light disables proteins, compromises DNA replication and irreversibly destroys the ability of virulent pathogens to infect aquatic organisms. Short lamp enables easy replacement.
- 2 Integrated software automatically adjusts the UV power to continuously maintain the required UV dose.**
 - a Integrated sensor monitors UV lamp intensity.
 - b Integrated sensor monitors UV water transmittance (UVT).
- 3 Quartz disinfection chamber** surrounded by an air block traps germicidal UV light rays and reflects them back into the water for longer light paths and uniform dose distribution – optimizing UV efficiency.
- 4 Thick quartz tube separates UV lamp from water chamber** for quick & easy lamp replacement and avoids the risk of broken glass and mercury in water.
- 5 Stainless steel housing** meets industrial standards.

Atlantium's system has integrated sophisticated software for **real time monitoring & control**, so you know exactly what UV dose you're getting all the time.



The monitor shows status in real-time, including the UV dose delivered right now

System Validated to Highest Regulatory Criteria

Atlantium's Hydro-Optic system is validated for microbial inactivation to the highest regulatory standards including the FDA and EPA, assuring the reliability you need to protect your enterprise.

Clear Water Brings Colors to Life

Atlantium's clean, green solution brings colors to life! It prevents mucous formation and improves water clarity.

Sustains Aquatic Life from Anywhere in the World

The Atlantium's system is equally effective with all water temperatures and salinities, making it possible to maintain aquatic habitats from anywhere in the world – from the Arctic to the Amazon. No matter what the natural habitat of your aquatic life – they will feel at home.

Easy to Use & Maintain

Atlantium's Hydro-Optic system is a true in-line system using short UV lamps securely positioned for quick replacement (4 minutes).

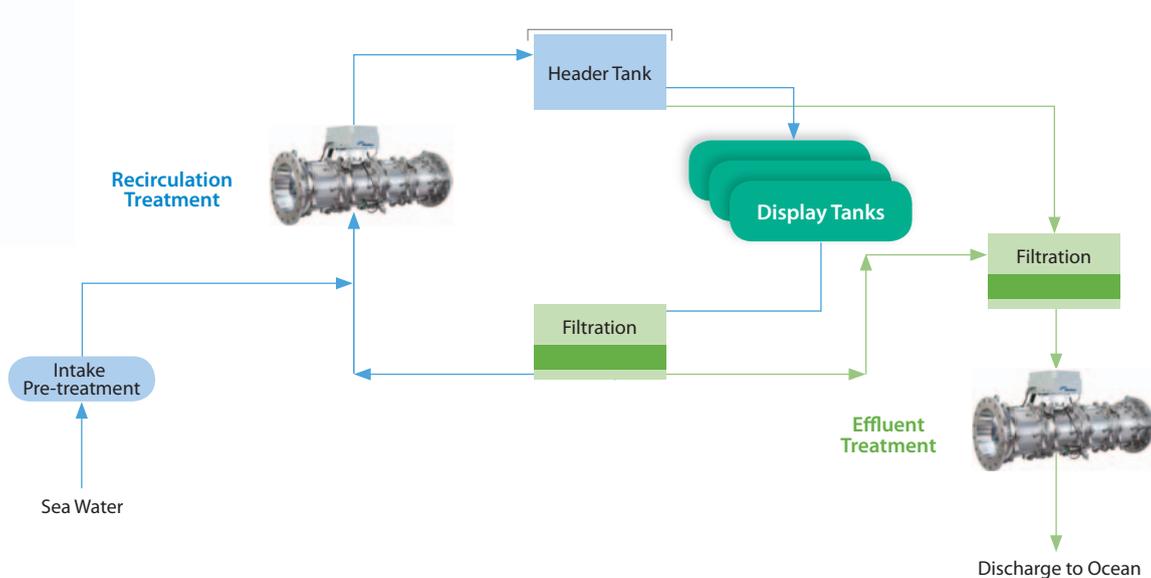
Continuous real-time monitoring & control of system performance and critical parameters including UV lamps intensity, water flow rate and water UVT (UV water transmittance), ensures that the unit **always maintains the required UV dose** for microbial inactivation.

The system comes with customizable options including remote control, data logging and monitoring, with real time access for up to nine Atlantium systems.

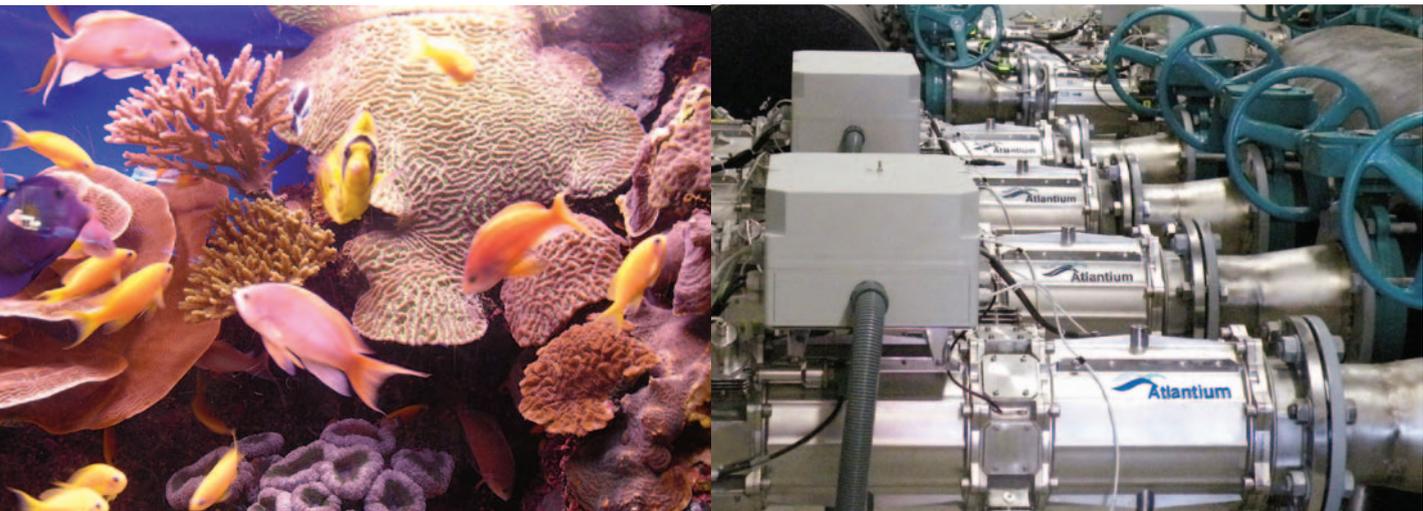


Atlantium's UV system protects all aquatic life including hard corals and other sensitive species such as giant clams (center), and also brings colors to life

Typical Aquarium Installation



Atlantium's Hydro Optic system can be used for Flow-through, Recirculation and Effluent applications in any location



The solution for a natural environment!

About Atlantium

Atlantium Technologies Ltd., founded in 2003, provides water-dependent industries such as dairy, food & beverage, pharmaceutical and aquaculture, as well as municipalities, with UV (ultraviolet) based treatment to meet the growing need for safe water.

The company's cost-effective and environmentally-friendly Hydro-Optic™ solutions deliver unprecedented microbial inactivation, taking water safety to levels never before achieved with other UV systems.

Atlantium's Hydro-Optic system is field proven and validated to the highest regulatory standards including EPA, FDA and PMO. The company has an international customer base with installations all over the world.



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