

UV Water Treatment
Hydro-Optic™ Technology

Salmon Egg Production Facility, SalmoBreed Salten, Uses Hydro-Optic™ UV for Water Biosecurity

SalmoBreed Salten, the world's most modern salmon egg production site, is a new land-based breeding facility in Salten, Norway, that has been designed to hold stock from egg to final mature broodfish resulting in the highest standard of technology and biosecurity. The site, which officially opened in May 2019, is part of Benchmark, a world leader in salmon genetics and the world leading supplier of salmon eggs.

Atlantium Technologies' Hydro-Optic™ (HOD) UV was chosen as the primary disinfection technology for fresh and sea water intakes, as well as the recirculation loops at the breeding plant. Atlantium's technology was specifically selected due to its history of proven performance in the aquaculture market combating viruses, fungus, algae and a wide variety of bacteria and delivering unparalleled water biosecurity.

RAS-system builder Artec Aqua designed the facility to provide biosecurity under a varying water conditions in order to provide maximum operation flexibility. The unique operating principles of the HOD UV technology ensure homogeneous UV dose distribution while maintaining real-time disinfection control. Lamp performance is continuously monitored in real time by a dedicated UV sensor per lamp on all HOD UV systems, a feature unique to Atlantium, ensuring the required UV dose is delivered at all times.

The system also features a sophisticated control and monitoring system that includes a dedicated UV sensor per lamp, integrated UVT sensor and feed from a flow meter to guarantee the required UV dose while effectively operating the system to reduce energy use. The compact and efficient installation of the HOD UV technology allowed for minimum space occupancy and convenient maintenance access in SalmoBreed Salten.

Why Atlantium HOD UV?

Atlantium has vast experience in the Norwegian Salmon farming market. The medium pressure HOD UV technology is unique in its ability to deliver a consistent and accurate UV dose, acting as a primary disinfection barrier. Atlantium conducted numerous tests on industry related pathogens in order to determine the most effective UV dose required to provide reliable and sustainable water biosecurity to Aquaculture facilities.



HOD™ UV delivers water biosecurity at the world's most modern salmon egg production facility, SalmoBreed Salten, in Salten, Norway.

About Atlantium

Atlantium Technologies Ltd. is a global leader in UV treatment solutions for municipal, industrial and ballast water applications. Atlantium's Hydro-Optic™ (HOD) UV system is a proven and effective alternative to chemically based treatment technologies. Atlantium's patented "Total Internal Reflection" technology recycles UV light energy within the HOD UV chamber. The HOD UV system is unique in its ability to automatically and efficiently maintain a UV dose to meet application-specific needs. Atlantium's solutions are field-proven globally and validated to the highest regulatory standards including EPA, FDA, NVI and PMO. The HOD UV technology can economically and effectively achieve non-chemical disinfection, dechlorination, or oxidation and treatment of aquatic invasive species. For more information, visit www.atlantium.com.

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