

Sustained Performance, Lower Operating Expenses

Atlantium's Hydro-Optic UV water treatment system is a green, clean technology that delivers on-site, on-demand water. It meets FDA and PMO 2009 criteria for UV water pasteurization and disinfection in the dairy industry.

The system has been engineered for operational efficiency, providing sustained performance and lower operating expenses.

After installing an Atlantium Hydro-Optic system to replace heat pasteurization, a large US plant manufacturing dairy products, ice creams and juices, reduced energy consumption for water pasteurization from 750kW to 75 kW per day with **annual energy savings of 158,000 kW.**

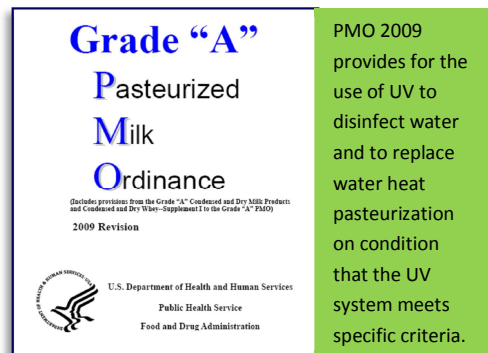
Improved Operational Efficiency

An Atlantium unit is a simple-to-install inline system with a small footprint that can easily be integrated anywhere in the production line.

It provides pasteurized water on demand without having to pre-determine exact quantities needed, with no time-out when too little has been prepared. Save time, water and energy.

Real Time Monitoring of Dose Delivered

A monitor shows the actual UV dose delivery in real time with easily understood visual depictions of real-time sensor readings of UVT, lamp status and flow rate. There is an integrated alarm and water diversion mechanism as well as data log files for regulatory inspection.



PMO 2009 provides for the use of UV to disinfect water and to replace water heat pasteurization on condition that the UV system meets specific criteria.

Small Carbon Footprint

Heat pasteurization demands high energy consumption – 150 kW per hour – while an Atlantium unit uses just 3 kW per hour. Atlantium's UV solution is an extremely cost efficient operating solution to provide pasteurized equivalent water according to PMO 2009 criteria.

No Risk of Contamination

With a comprehensive control mechanism for assuring the delivered dose and a built-in alarm for preventing untreated water entering the production line, there is no risk of contamination or by-products affecting the water's chemical or biological properties.



Only Medium Pressure UV does more for less!

Reduce Chemical Use in the Production Line

Atlantium's system is environmentally friendly and poses no hazards to workers.

There is no possibility of leakage, contamination, no pipe corrosion and no logistical issues involving transportation, storage or disposal of hazardous materials.

And It won't allow chemically-resistant strains of pseudomonas to become residents in your pipes.

Less Manpower

Heat pasteurization is a manpower intensive procedure, whereas Atlantium's Hydro-Optic system is a fully automated solution requiring minimal manpower support. The Atlantium system is configured for full integration with the plant control system. A monitor provides the operator with real time status display of all critical parameters and an alarm if any of the parameters is not within the required level. Every event is automatically written to the electronic event log.

The system comes with the option for external on-off to synchronize the unit with facility processes including thin client networks, as well as a remote control module that provides real-time access to system data.

Less Frequent CIP Schedule

Carbon filters are breeding grounds for bacteria and prone to bio-fouling, and they need to undergo costly cleaning on a regular basis to avoid breakthroughs. Atlantium's Hydro-Optic system, installed immediately after the carbon filter, protects against breakthrough and reduces bio-fouling downstream, resulting in a significant reduction of cleaning frequency, aggressiveness and intensity.

Less Down-Time

Atlantium's system provides pasteurized equivalent water on-demand at any time, whereas heat pasteurization requires an accurate quantity forecast beforehand. An error in projected quantity can hold up production while preparing another batch, with downtime typically translating into a \$1,600 penalty.

Compared to other UV systems

Atlantium's solution saves downtime in maintenance procedures.

With a short UV lamp outside of the water treatment chamber, it can be replaced quickly and easily (only four minutes). The chamber is not susceptible to water pressure damages or glass and mercury contamination or breakage during replacement.

The system comes with an optional automatic ultrasonic cleaning system.

Save a Storage Tank

Heat pasteurized water "occupies" storage tanks and takes up space that could be usefully employed for production, not to mention the high capital costs and extra CIP costs.

The Atlantium system provides water on demand, has a small footprint and can be easily connected anywhere in the production line. Then the storage tank can be put to better use for production and generate income for a sustainable profit.

For more information, please contact your Atlantium representative.
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