



Disinfection



Industrial



US

Disinfection for Product Water Loop of Leading US Global Wipes Producer

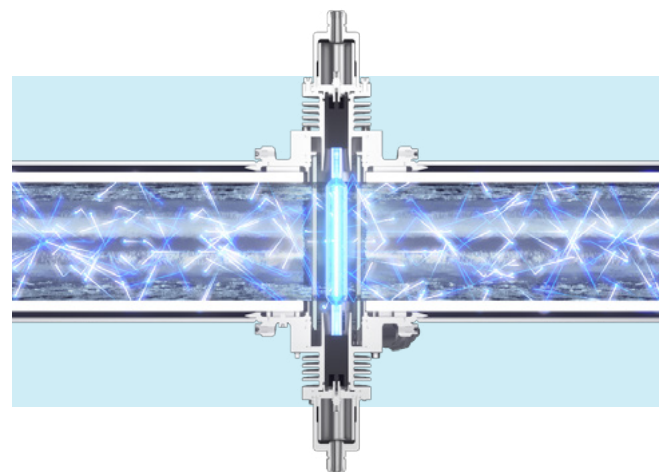
The Challenge

At the beginning of 2020, one of the world's leading producers of wet wipes turned to Atlantium's medium-pressure, high-intensity HOD™ (Hydro-Optic Disinfection) UV system to protect its product water loop from microbial contamination. The space-saving and operator-friendly design of HOD UV technology was specifically chosen to replace an existing and complicated heat pasteurization process. With HOD UV, the facility can achieve unprecedented microbial inactivation for their inlet water to a level of pasteurized equivalent, safely and efficiently without the use of heat.

Atlantium HOD UV systems effectively inactivate pathogens – while still being environmentally friendly, cost-effective, and not introducing any disinfection by-products. This is achieved by combining ultraviolet water disinfection technology with hydraulic and optic principles. The HOD UV system features unique Total Internal Reflection (TIR) technology that recycles UV light energy, ensures homogenous UV dose distribution, provides superior power (kW) efficiency compared to traditional UV, and achieves unprecedented micro-organism inactivation.

The Solution

The installed HOD UV RZ Series system treats a maximum flow rate of 20 m³/h and features one intensity sensor per lamp and UVT (UV Transmittance) sensor. This unique approach to monitoring and control ensures the exact UV dosage is applied, saving annual energy consumption dramatically. Because the HOD UV system significantly less energy than the existing heat pasteurization process, the new disinfection process is expected to deliver significant energy savings.



Results

Atlantium's HOD UV technology has provided the client with a low-maintenance disinfection solution that outperforms previous methods, delivering unparalleled microbial inactivation to a pasteurized-equivalent level—without the use of heat. Highly satisfied with the system's performance and low operational costs, the client has chosen to invest in an additional HOD UV system following this successful installation.



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About us

For more than two decades, Atlantium Technologies has helped to ensure water safety with its innovative HOD™ (Hydro-Optic Disinfection) UV technology and novel approach to performance, monitoring, and control. Atlantium's superior, environmentally friendly water treatment solutions ensure stable, efficient, and dependable production.

With thousands of full-scale installations for leading brands in various industries globally, we're committed to consistently meeting our customers' water quality needs, ensuring pure results.

