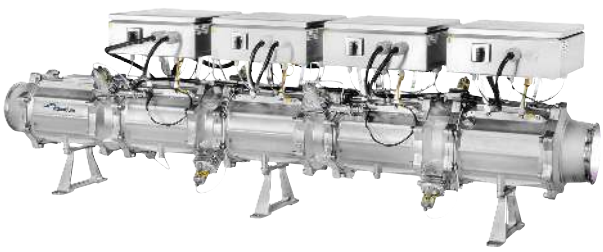
Atlantium
Illuminating Water Technologies

MARKET INSIGHTS

Hydro-Optic™ UV
Water Biosecurity and Safety



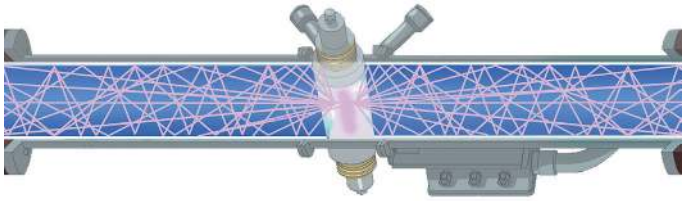
Atlantium's Hydro-Optic™ (HOD) UV technology offers a sustainable alternative to chemicals and heat for water disinfection, and is validated to FDA PMO and FSMA criteria for pasteurized equivalent water, coliform-free water and COW water reuse. It delivers unprecedented microbial inactivation, achieving water pasteurization without heat and taking water safety to levels never before achieved with other UV systems or with chemicals.



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Hydro-Optic™ UV Technology Spotlight

The HOD UV system features the unique Total Internal Reflection technology that recycles UV light energy, ensures homogenous UV dose distribution and provides superior power (kW) efficiency compared to traditional UV.



Enhanced HOD UV Light

- Medium pressure high-intensity HOD UV lamps enable fewer UV lamps per system
- Medium pressure UV lamps provide a broad germicidal spectrum of polychromatic UV light (200–415 nm)
- Lamps are protected by a quartz sleeve 5 times thicker than conventional quartz sleeves
- Significantly reduced lamp-related maintenance
- Quick and easy lamp replacement, does not require emptying of the water lines or depressurization



Real-Time Lamp Performance Monitoring

- Dedicated UV sensor for each HOD UV lamp (feature unique to HOD UV technology)
- Continuously monitors HOD UV lamp output
- Ensures delivery of required UV dose at all times

Advanced Control System

- Continuously displays UV transmittance (UVT), flow, power and UV dose
- Provides real-time data on operation and efficacy
- Features built-in data logging, up to six months
- Easy integration with the control SCADA system
- Customized with user settings for alarm signals
- Features user-based management with changeable usernames and passwords





Real-Time Water Quality Monitoring

- Integrated UVT sensor on each HOD UV system
- Continuously monitors UVT%
- Optimizes system performance for actual, not estimated, UVT% levels

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For more information, contact your Atlantium representative

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