

Atlantium HOD Solutions R-Series

R-50, R-100, R-200

Delivering highly reliable, cost effective primary disinfection for industrial & municipal applications

Taking water disinfection to unprecedented levels of effectiveness and reliability



Atlantium's field-proven Hydro-Optic Disinfection (HOD) Technology provides advanced primary disinfection solutions for today's regulatory, operational and environmental safety challenges.

Designed for versatility, the Atlantium R-50, R-100 and R-200 are all compact solutions that can be easily integrated with existing and new facilities.

Innovative Design

The R-50, R-100 and R-200 feature: Atlantium's revolutionary "lamp-out-of-water" design which eliminates sleeve fouling and minimizes CIP. All models feature the following:

- Adaptation of principle of Total Internal Reflection (TIR) - ensures UV light is distributed uniformly throughout all the water in the quartz disinfection tube - the key to high levels of microbial inactivation
- Real-time, automated monitoring and control sustains reliable performance, assuring maximum microbiological inactivation regardless of variability in influent conditions
 - Dual lamp sensor design provides continual monitoring
 - Automatic dose re-adjustment to meet fluctuating conditions
 - System performance tracking & reporting
- Atlantium's proprietary plug & play Medium Pressure High Intensity (MPHI) UV lamp.



Dual Lamp Model



Single Lamp Model

Flexible tubes are part of the air cooling system

Key Benefits

- **Highly reliable, fully verifiable performance**
 - Complete sustained microbe inactivation
- **Comprehensive solution**
 - Effective against a wide variety of microorganisms, including bacteria, viruses, molds and fungi
 - Near-zero algae/bacteria regeneration/reactivation
- **Environmentally friendly**
 - Chemical-free, by-product-free process
 - No risk of mercury lamp breaking in the water
- **Low Total Cost of Ownership (TCO)**
 - Dramatic savings on energy costs, labor, parts and down-time
- **Extensive real-time control & monitoring**
 - Remote monitoring and operation, with one-click maintenance and status reports

A New Era in Water Disinfection

R-50, R-100, R-200

Delivering highly reliable, cost effective primary disinfection for industrial & municipal applications



Atlantium R-50, R-100 and R-200 are advanced disinfection solutions, ideal for the following industries and applications:

Aquaculture

Flow-through protection
Re-circulation protection
Effluent

Food & Beverage

Firewall - 1st line of protection
Chlorine replacement
Post-GAC filter disinfection
Product water disinfection
Process water disinfection
Non-thermal pasteurization
Cooling towers

Dairy

Firewall - 1st line of protection
Chlorine replacement
Post-GAC filter disinfection
Product water disinfection
Process water disinfection
Non-thermal pasteurization
Cooling towers

Municipal

Drinking Water
Water re-use

Pools & Spas

Chlorine replacement

Pharmaceutical

Product water disinfection

Greenhouses

RO Membrane protection

Contact Atlantium to determine the best solution for your needs.

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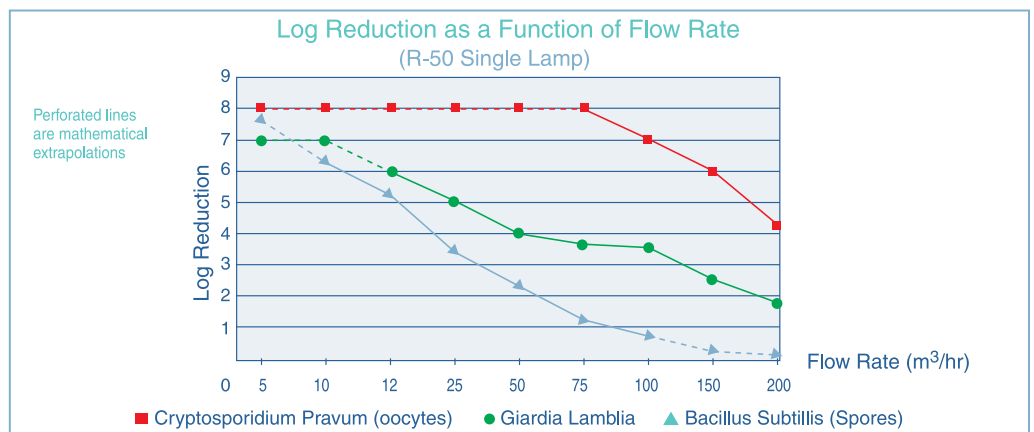
Specifications

	R-50	R-100	R-200
Light Source (Single/dual-lamp config.)	MPHI*1.8kW UV lamp	MPHI*1.8kW UV lamp	MPHI*4.2kW UV lamp
Max Power Consumption (kW) - Lamps only			
Single-lamp configuration	1.8	1.8	4.2
Dual-lamp configuration	3.6	3.6	8.4
Dimensions (L x W x Hmm)			
Single-lamp configuration	1550 x 450 x 680	1550 x 450 x 680	1650 x 910 x 1510
Dual-lamp configuration	2000 x 450 x 680	2000 x 450 x 680	2390 x 910 x 1510
Weight (kg)			
Single-lamp configuration	89	91	290
Dual-lamp configuration	128	130	350
End Connections			
Flange PN10 & Tri clamp (Ferrule)	3" (80mm)	4" (100mm)	6" (150mm)
Max Flow Rate	Application-dependent		

* Medium Pressure High Intensity

All Models

Additional Equipment	A complete set of optional accessories is available from Atlantium (flow switch or flow meter is required)
Body Material	SS 316L
Electrical Requirements	240-480 VAC, 50-60 Hz, 10-20A, 1 or 3-phase
Operating Temperature (ambient)	Up to 35°C (A/C unit can be added for environments above 35°C)
Operating Temperature (water)	4° to 90°C (CIP with superheated water approved up to 140°C)
Controller	Internal, with flat touch screen user interface; remote monitoring and control capability
Max. Working Pressure [bar]	10



UV transmittance = 95% per 1 cm