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

Dual Lamp Model

Single Lamp Model

Flexible tubes are part of the air cooling system

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.

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

Atlantium
Illuminating Water Technologies

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.

Atlantium Technologies Ltd.
Har Tuv Industrial Park
POB 11071, Bet Shemesh 99100, Israel

Tel: + 972 2 992 5001
Fax: + 972 2 992 5005
www.atlantium.com
info@atlantium.com

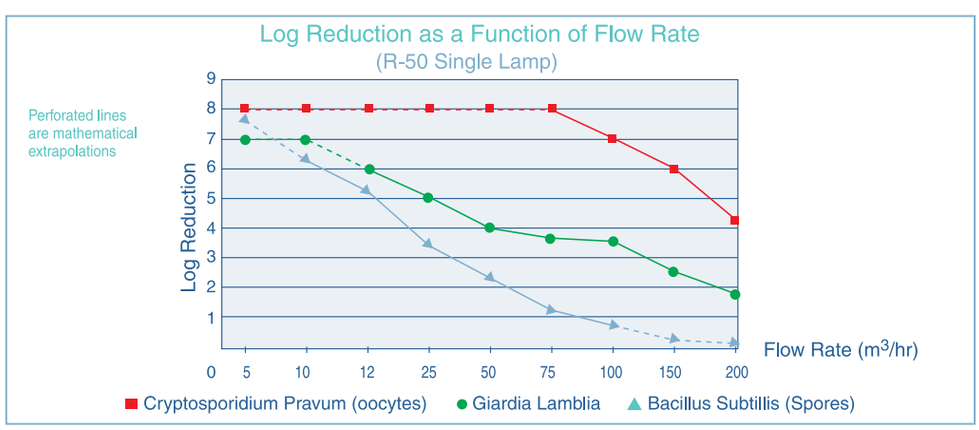
Specifications

	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

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