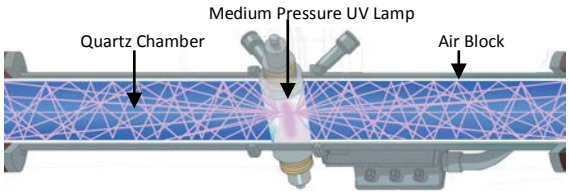
Atlantium
Enlightened Water Technologies

UV Water Treatment
Atlantium Hydro-Optic™ Solutions

RZ-104 series

Engineered for Guaranteed Bio-Security and Reduced Energy Use



New Waterproof Ballast Model Costs Less

- Maximum flexibility – you decide where to place it
- Easy access for maintenance

Recycles UV Photons, Lower Energy Costs

- Quartz treatment chamber engineered for longer UV light paths and optimal hydraulics
- Patented Hydro-Optic engineering uses fiber-optic principles
- All pathogens are exposed to a uniform UV dose – proven and validated!

New Cable Connection Box

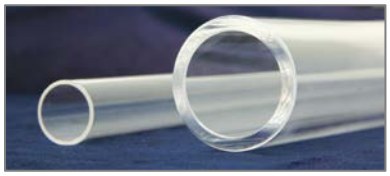
- Plug & Play style: easy to connect
- Waterproofed for safety: IP56

Guaranteed Bio-Security: 2 Sensors per Lamp

- One sensor tracks lamp intensity
- One sensor tracks UVT (water clarity)

Medium Pressure UV: Better Protection, Fewer Lamps

- Atlantium Medium Pressure high-intensity UV lamps more effective and cost-efficient
- More UV power per centimeter
- Disables DNA proteins involved in cell repair
- Effective in cold & warm water too



Real-Time Monitoring*

- Automatically adjusts UV dose to changes in real-time conditions
- Displays real-time data status, including the actual UV dose being delivered
- Tracks dose and validation parameters
- Continuous documentation for QA and regulators

Customized Control*

- User-friendly integration with plant controls
- Option for remote monitoring
- Customized user setting for alarm values
- Touch-screen technology

Lamps Safer, Easier to Handle

- Shorter lamps reduce risk of breakage
- Quick & easy lamp replacement – four minutes
- Thick quartz tubes, 5x thicker than conventional quartz sleeves, separates the lamp from the water
- No possibility of broken glass and mercury in water

* Available also in stainless steel

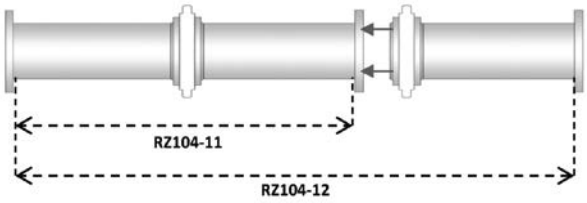
* Basic version available with 2-color monitor

Medium Pressure High Intensity UV systems	RZ104-11	RZ104-12
Number of lamps *	1	2
Max Power Consumption (lamp only)	1.1 kW	2.1 kW
Length of lamp (mm/inch)	262.8 / 10.35	
Unit Length (mm/inch) **	1039 / 40.9	1565 / 61.6
Unit Weight (kg/lb)	41 / 90	66 / 145
Unit volume (liter/gallon)	8.9 /2.6	13.3 / 3.5
Unit chamber width at widest point (mm/inch)	405 / 16	
Required service clearance on sides (mm/inch)	320 / 12.6	
Minimum Height above floor (mm/inch)	700 / 27.6	
Standard pipe connection options	Flange DIN 2527 DN100 PN16 / Flange ANSI B 16.5 4" 150lb Tri-Clamp FERRULE DIN 32676 DN 100	
Operating water temperature	0-60°C / 32-140°F	
Maintenance water temperature	0-90°C / 32-194°F	
Maximum ambient temperature	40°C / 104°F	
Maximum Flow Rate	Application dependent	
Maximum working pressure	10 bar / 145 PSI	
Disinfection chamber material	High grade fused silica (quartz)	
Housing material	Electro-polished stainless steel 316L	
Controller	Integrated, with flat touch screen user interface Remote monitoring & control optional	
Electricity requirements	400VAC 3 phases / 440VAC 3 phases / 480VAC 3 phases	

** Number of lamps determined by application* ***Flange to flange*

User to provide a flow signal (flow switch/flow meter)

The RZ104 series is a modular configuration which enables maximum flexibility and precision based on client needs. Systems are sized to give the dose and performance required.



A complete set of accessories is available from Atlantium: check with your distributor.

Regulatory Compliance

- EPA 4-log virus disinfection credit and 5-log microbial inactivation
- FDA pasteurized equivalent water/water disinfection
- European Low Voltage Directive (LVD): 73/23/EEC (electrical safety)
- UL or CSA
- EC/99/93 (quality of water for human consumption)
- ISO 9001:2008 Quality Management
- US Federal Performance Standards 40 CFR 141.720
- 3rd party validated by HDR/HydroQual, Inc.
- GOST Standards Institute, Russian Federation
- National Institute of Public Health, Poland
- Resloucion exenta N° 2.327 del 31 de diciembre de 2010, en el marco de la Ley General de Pesca y Acuicultura

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