

Technical Data Sheet

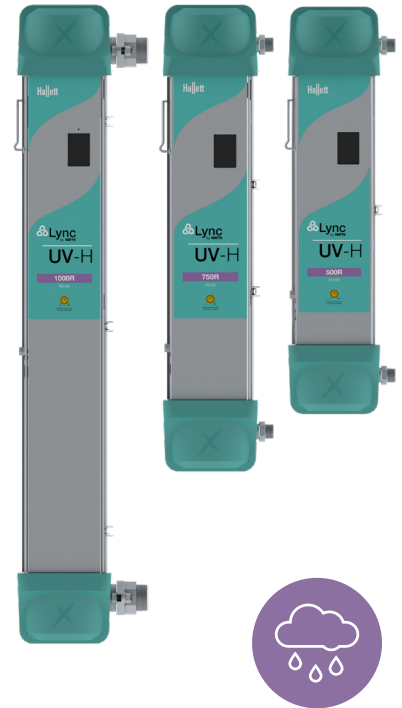
UV-H Reuse

Effective and Eco-Friendly UV Water Disinfection System

UV-H Reuse is Lync's state-of-the-art commercial UV water disinfection system for reuse and rainwater applications. The system is configurable up to 100 GPM.

The proprietary reactor design, built-in automatic self-cleaning wipers, and easily replaceable lamps set Lync UV-H apart in terms of both disinfection performance and ease of maintenance. Through a 360-degree UV light emission provided by Crossfire® Technology and a two-lamp design, the risk of microorganisms blocked from the UV light by solid particles is eliminated.

The advanced design of the UV-H enables the effective disinfection of even low-quality waters with hardness levels as high as 50 grains per gallon and iron levels up to 3 mg/L without pre-treatment in order to maintain water clarity and mitigate scale buildup.



Advanced Features for Superior Performance

- Stainless steel reactor chamber(s), quartz sleeve(s), UV lamp(s), and full-color touchscreen controls with BAS integration through Modbus protocol
- Dual air-mounted lamps with forced air cooling for optimal UV chamber temperature control help to eliminate false lamp alarms
- Dual UV sensor array that provides real-time monitoring of UV lamp intensity, UV dose, and net UVT while enabling superior on-board diagnostics for troubleshooting

Greater Safety, Reliability, and Longevity

- Mitigates health concerns by being highly effective against Legionella bacteria*
- Extends the life of equipment and plumbing systems that receive reuse water reuse by mitigating risks of biofilm formation and microbiologically induced corrosion
- Increases overall equipment performance and reduces or eliminates the need for chemical disinfection

Simplified Installation and Maintenance

- UV lamps in the front cabinet make replacement simple and eliminate the need for maintenance clearance at the top or sides of the system
- Automatic self-cleaning wipers and built-in purging prevents fouling of the quartz sleeve by mineral scaling and biofilm
- Available at up to 100 GPM to simplify installation, maintenance, and repair in high-flow applications

Warranty

- 3-year limited warranty on electrical components and quartz sleeves
- 5-year limited warranty for structural, hardware and mechanical components
- 12-month limited warranty on bulbs for 500, 750
- 12-month limited warranty on sensor probes
- 16-month limited warranty on bulbs for 1000

*Minimum of 99.9999% (6-log) inactivation

Technical Specifications

Model	500R	750R	1000R
Max Flow (single unit) ¹	37 GPM	40 GPM	100 GPM ¹
UV dose (mJ/cm ²)	40 (minimum)		16 - 200
UV transmittance	95%		95%
Max Water Hardness	50 gpg		
Max Iron (in water)	3 ppm		
Air temperature	34 - 104°F		
Water temperature	34 - 131°F		
Water pressure	5 - 100 psig		
Relative humidity (air)	Max 70%		
Max pressure drop	10 psi	13 psi	3 psi

¹ Maximum flow for a single unit is 100 GPM (284 L/min). Multiplex manifold and cabinet systems can be used for flows up to 1 MGD (3,800 m³/day).

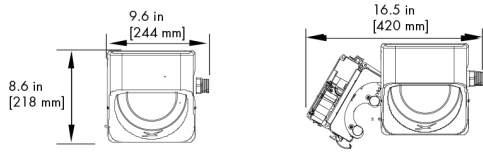
Model	500R	750R	1000R
Voltage	120 V AC, 50/60 Hz or 230 VAC/50 Hz		
Power consumption	196 W	222 W	403 W
Certifications	UL 979; IEC 60335-1; IEC 60335-2-109; CE		
UV lamps	Dual LPHO - air mounted		
Typical lamp life	9,000 hrs.		12,000 hrs.
Lamp cycles	Max 6-12 per 24 hours		
Sensors ²	Dual UV		Quad UV
Dry contacts (built-in)	2 (warning and alarm)		
Interface	Color LCD resistive touchscreen display		
Alarming	Indicator light and audible alarms		
Remote start/stop	Built-in		
Onboard diagnostics	Built-in		
Output & Modbus	4-20mA (optional)		

² Calibrated to NIST standards.

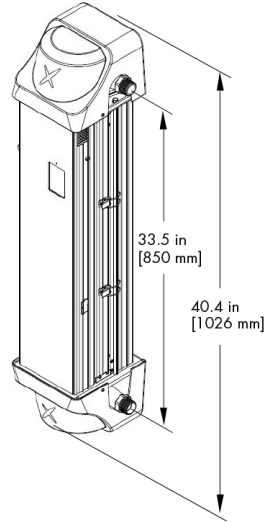
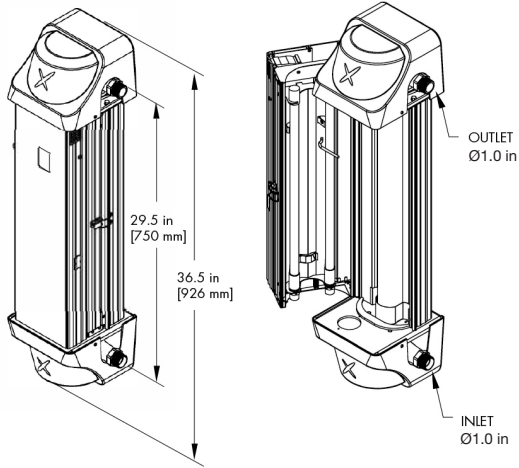
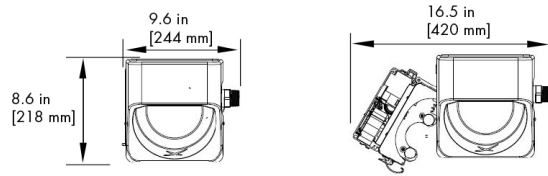
Model	500R	750R	1000R
Dimensions (H x W x D)	36.5 x 9.6 x 8.6 in	40.4 x 9.6 x 8.6 in	55.8 x 11.5 x 8.6 in
Weight (dry)	32 lb	34 lb	52 lb
Weight (wet)	36 lb	38 lb	58.3 lb
Wetted parts	Meets NSF/ANSI/CAN 61 & NSF/ANSI/CAN 372 for water up to 73°F (23°C)		
Body materials	Anodized aluminum and 316 Stainless Steel		
Body configuration	Double door with side hinges		
Inlet/outlet ports	1" MNPT		2" MNPT
Ingress protection rtg.	IP 51 (optional IP 66 with NEMA cabinet systems)		

Dimensions

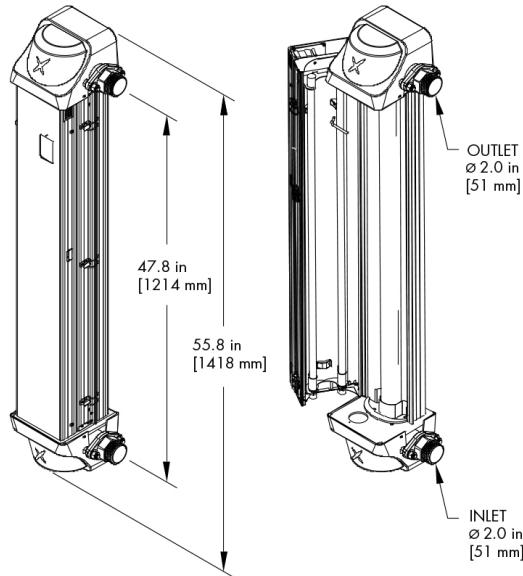
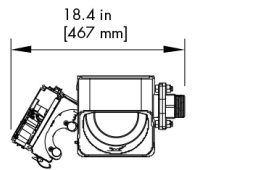
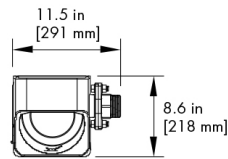
UV-H 500R



UV-H 750R



UV-H 1000R



Engineered Solutions

Lync product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact your local Lync Representative. Lync reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Lync products previously or subsequently sold.

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