

Technical Data Sheet

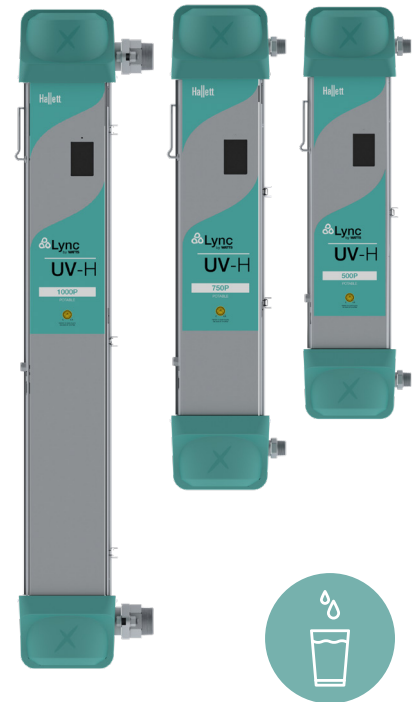
UV-H Potable

Effective and Eco-Friendly UV Water Disinfection System

Lync's UV-H Potable is a state-of-the-art commercial UV water disinfection system for potable water applications. The system is configurable up to 100 GPM with all models certified to NSF/ANSI/CAN 61 & 372 and certain models certified to NSF/ANSI 55-A standards.

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 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 water heating and plumbing system by mitigating risks of biofilm formation and microbiologically induced corrosion
- Increases overall equipment performance and decreases water heating costs

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	500P	500PN	750P	750PN	1000P
Certification/Validation	NSF/ANSI/CAN 61 & NSF/ANSI/CAN 372				
		NSF/ANSI 55-A		NSF/ANSI 55-A	
Flow (single unit)	37 GPM	16.5 GPM	40 GPM	27.4 GPM	100 GPM
UV dose (mJ/cm ²)	40 (minimum)				
UV transmittance	95% ¹	Min. 75%	95% ¹	Min. 75%	95% ¹
Maximum Water Hardness	50 gpg				
Maximum 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	22.7 psi ²	13 psi	22.7 psi ²	5 psi

¹ Min. water UV Transmittance for 40 mJ/cm² dose.

² Higher pressure drop due to flow restrictor installed for NSF55-A certification.

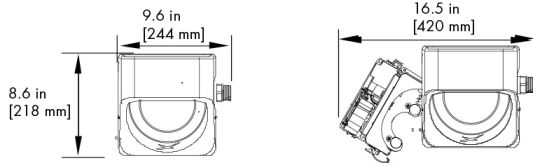
Model	500P	500PN	750P	750PN	1000P
Voltage	120 VAC/60 Hz or 230 VAC/50 Hz				
Power Consumption	196W	196W	222W	222W	403W
Certifications	UL 979; IEC 60335-1; IEC 60335-2-109; CE				
UV Lamps	Dual (air mounted)				
Typical Lamp Life	9,000 hrs.				12,000 hrs.
Lamp Cycles	Maximum of 12 per 24 hours				
Sensors ³	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)				

³ Calibrated to NIST standards.

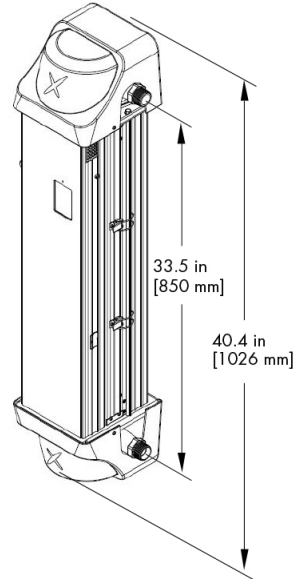
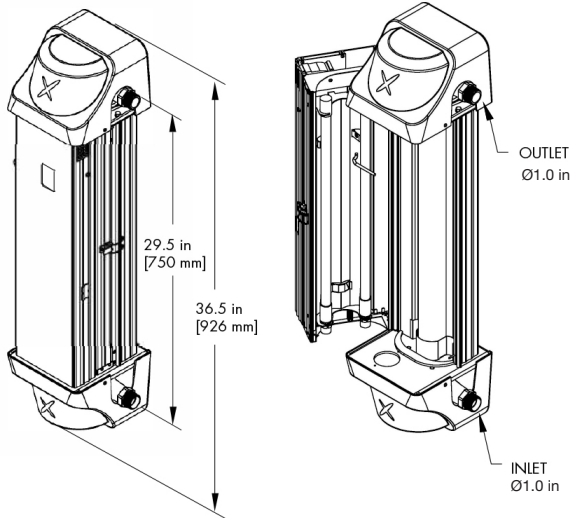
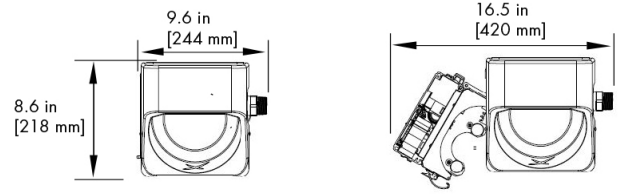
Model	500P	500PN	750P	750PN	1000P
Dimensions (H x W x D)	36.5 x 9.6 x 8.6 in		40.4 x 9.6 x 8.6 in		55.8 x 11.5 x 8.6 in
Weight (dry)	32 lb.		34 lb.		52 lb.
Weight (wet)	36 lb.		38 lb.		58.3 lb.
Body materials	Anodized aluminum and 316 Stainless Steel				
Body configuration	Double door with side hinges				
Inlet/outlet ports	1" MNPT				2" MNPT
Ingress protection rtg.	IP 51 (optional IP 66 with NEMA cabinet systems)				

Dimensions

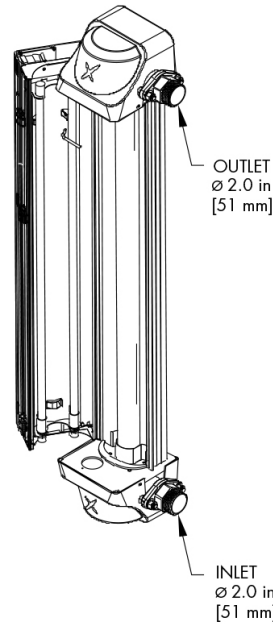
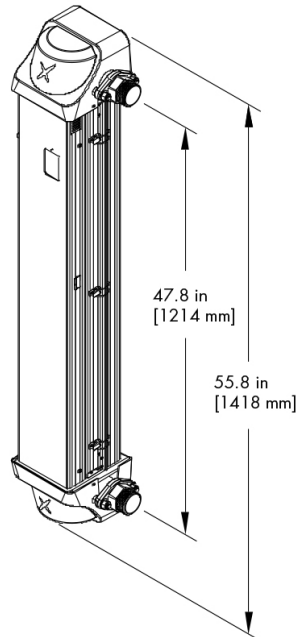
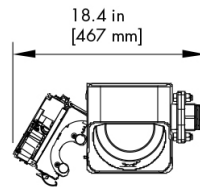
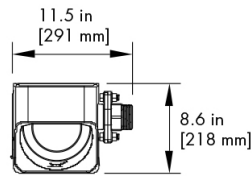
UV-H 500P and 500PN



UV-H 750P and 750PN



UV-H 1000P



NSF/ANSI 55-A certification for Lync UV-H 500PN and 750PN systems

The Lync UV-H 500PN and 750PN are installed indoors on a wall in a dry location. The units should be plumbed in downstream of any pretreatment devices but upstream of distribution plumbing. The Lync UV-H 500PN and 750PN plug into a 120Vac ground-fault circuit-interrupter (GFCI) or a 230Vac residual current device (RCD) (dependent on territory). The Lync UV-H 500PN and 750PN incorporate both audible and visual alarms to indicate system status and an optional normally closed solenoid valve is available to shut off the water supply in the event of a system fault.

The automatic quartz cleaning feature is engineered to eliminate the periodic maintenance required by conventional UV systems. For Lync UV-H 500PN, the UV lamps pair P/N E300210 (single lamp P/N E300209) and for Lync UV-H 750PN, the UV lamps pair P/N C300065 (single lamp Pair P/N C300064) require replacement after 12 months of operation.

System* Tested and Certified by NSF International against NSF/ANSI Standard 55 for Disinfection Performance, Class A.

These Class A systems conform to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. These systems are not intended to convert wastewater or raw sewage to drinking water. These systems are intended to be installed on visually clear water.

NSF/ANSI 55 defines wastewater to include human and/or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and/or feces (blackwaste); and other waste materials deposited in plumbing fixtures (greywaste).

If these systems are used for the treatment of untreated surface waters or groundwater under the direct influence of surface water, a device found to be in conformance for cyst reduction under the appropriate NSF/ANSI Standard shall be installed upstream of these systems.

Manufactured by: UV Pure Technologies Inc. / 455 Milner Avenue Toronto, Ontario,
M1B 2K4 / 416-208-9884 and 888-407-9997 / info@uvpure.com

All replacement parts may be purchased through Lync.

*Only for UV-H 500PN and UV-H 750PN models



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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