

UVC LED Technology

Watersprint Solo®

Advanced UVC LED Water Disinfection System

Watersprint Solo® is designed to provide microbially safe water through cutting-edge UVC LED technology. Engineered for efficiency and reliability, it offers a mercury-free solution that inactivates harmful bacteria, viruses, and other microorganisms with high precision.

Two Models, One Technology

The Watersprint Solo® product family features two distinct models, both powered by the same innovative UVC LED technology. Each model is tailored to meet different customer needs, offering optimized performance for varying flow rates:

- Watersprint Solo® 40 for flow rates up to 16 liters/min.
- Watersprint Solo® 120 for flow rates up to 24 liters/min.

Lasting Performance

Watersprint Solo® is compact and versatile, and designed for easy installation in new and existing systems. Unlike conventional UV lamps that use fragile and bulky glass tubes, Watersprint Solo® is safer and more robust in demanding environments.

Automatic and Instant Start

Thanks to the external flow sensor, the UVC LEDs automatically activate when water flow is detected. Unlike other UV light sources, the UVC LEDs provide full output instantly without any warm-up time, ensuring that water is disinfected from the moment it begins to flow. Watersprint Solo® 40 is available in two configurations: with or without a flow sensor, allowing OEM customers to choose the best option for their specific needs.

Low Power Consumption

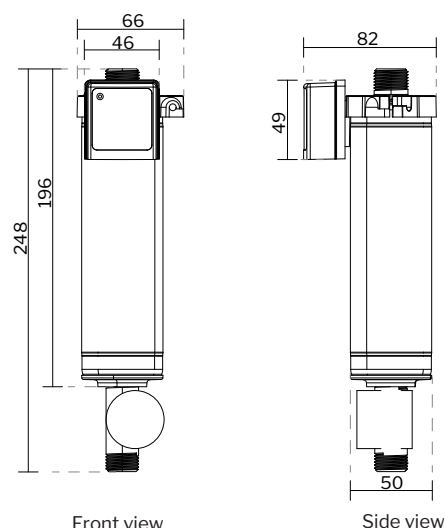
Since our water disinfection system enters standby mode when no water is flowing, it achieves significantly lower power consumption compared to conventional systems, using less than 1W in standby mode. Also, since the light source is off when no water is flowing, there will be no heat transfer to the water.



Advantages of UVC LED Technology

- **Mercury-Free Technology:** UVC LEDs do not contain mercury, making them safer for the environment and easier to handle compared to conventional UV lamps.
- **Simple Handling:** UVC LEDs are user-friendly during their active lifespan and thereafter, ensuring easy disposal and maintenance.
- **Space-Saving Design:** The compact size of UVC LEDs allows for more efficient, space-saving designs in water disinfection systems.
- **No Fragile and Bulky Glass Tubes:** Unlike conventional UV lamps, UVC LEDs do not contain fragile glass tubes, reducing the risk of breakage and increasing durability.
- **Longer Lifespan:** UVC LEDs have a longer operational life, providing reliable and consistent disinfection over time with minimal replacement needs.

Dimensions (mm)





SPECIFICATION

Watersprint Solo® UVC LED Water Disinfection System

Model	Watersprint Solo® 40	Watersprint Solo® 40 FS
Release Date	Available now	Available now
Article Number	WS-10-1240	WS-40-1800
Flow Sensor for automatic and instant start	No	Yes
Regulatory	RoHS, REACH and CE.	RoHS, REACH and CE.
DETAILED TECHNICAL DATA		
Dimensions (HxW)	196 mm x 50 mm	248 mm x 66 mm
Connection size and type	Inlet: ½" FBSP Outlet: ½" MBSP	½" MBSP
Weight	0,5 kg	0,5 kg
IP rating	IP21	IP21
Electrical Characteristics		
Input rating	12 VDC	12 VDC
Power consumption	24W <1W in standby mode	24W <1W in standby mode
UVC LED lifespan	1 000 active hours	1 000 active hours
Performance ¹		
16 mJ/cm² @ 95% UVT	10 l/min	10 l/min
30 mJ/cm² @ 95% UVT	5 l/min	5 l/min
Max. flow rate	16 l/min	16 l/min
Operating Conditions		
Water temperature	1–45°C	1–45°C
Ambient temperature	1–45°C	1–45°C
Max. water pressure	10 bar	10 bar
Pressure drop @ max. flow rate	0,3 bar	0,7 bar

¹Based on third-party validated bioassay.