

# Safe water

## **Watersprint AB**

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# Water purification to revolutionize the world

Watersprint is an innovative technology company that is revolutionising the world with UVC LED technology. Using patented technology, we develop and manufacture products that purify the water directly at the point of use. In addition to the opportunity to replace the less environmentally friendly UV lamps that contain mercury, our UVC LED solutions offer many advantages over other common water purification techniques, such as filtration, reverse osmosis and chemical dosing.

The transport and consumption of bottled water is unsustainable, and the world today is in urgent need of sustainable products to provide safe water.

Watersprint's water purification products are compact, flexible and cost-effective. They are designed to be fitted to showers and taps in households, boats, motorhomes and schools, as well as in hospitals and industrial environments, etc. All development and production is carried out in Sweden by a team that constantly strives to be at the forefront of performance, sustainability and application.

Our long-term goal is to become the market leader in water disinfection at a global level. We have already come a long way. Join us on our journey and help make the world a little better.

**” We want to provide  
safe water in a  
sustainable way,  
for everyone”**

André Carlsson

André Carlsson  
CEO







## A pure story from Sweden

Watersprint is a Swedish company that is striving to make the world a little better. We do this by drawing on our genuine knowledge and strong understanding of the global need for clean water.

### How it all began

As with many successful ideas, it all began with a spontaneous conversation. Kenneth Persson, Professor of Water Resources Engineering at Lund University and Ola Hansson, an experienced water management engineer, wondered whether there was a smarter and more sustainable solution for water purification than UV lamps which contain mercury. LEDs perhaps? They agreed to develop a smarter solution if one wasn't already available. They teamed up with Lars Montelius, Professor of Nanotechnology and Associate Professor of Physics, and registered the company in 2013.

A prototype was produced a year later, which resulted in the first commercial product in 2015. After a few years of uncertainty, the company entered into its first commercial partnership in

2019 with FM Mattsson, now an advocate of the new technology. The market was ripe for UVC LED technology, enabling Watersprint to develop a product portfolio based on patented technology.

With cutting-edge expertise, a strong team, applications with a range of segments and an excellent understanding of market needs, the company is now ready to take the next step towards large-scale production. Development and manufacturing will continue in Sweden and the goal remains the same: to contribute to a better, cleaner and more sustainable world.



# Our solutions fit anywhere

There is strong global demand for cost - effective, sustainable, flexible water purification that is designed and adapted for daily life. Our products provide clean water instantly as soon as you turn on the tap, all thanks to UVC LED technology.

- ▶ **Residential** – showers, taps, faucets, wells, RO/filter control, humidifiers, household appliances, point of use/entry disinfection.
- ▶ **Commercial** – schools, gyms, sports arenas, care homes, small scale waterworks.
- ▶ **Transportation** – aircrafts, RVs such as campers, trailers and motorhomes, rail, cruise ships, yachts, boats.
- ▶ **Healthcare** – hospitals, clinics, “safe water points”.
- ▶ **Remote/Mobile** – Emergency response, Defence, Aid.

Costumer areas:



Residential



Commercial



Transportation

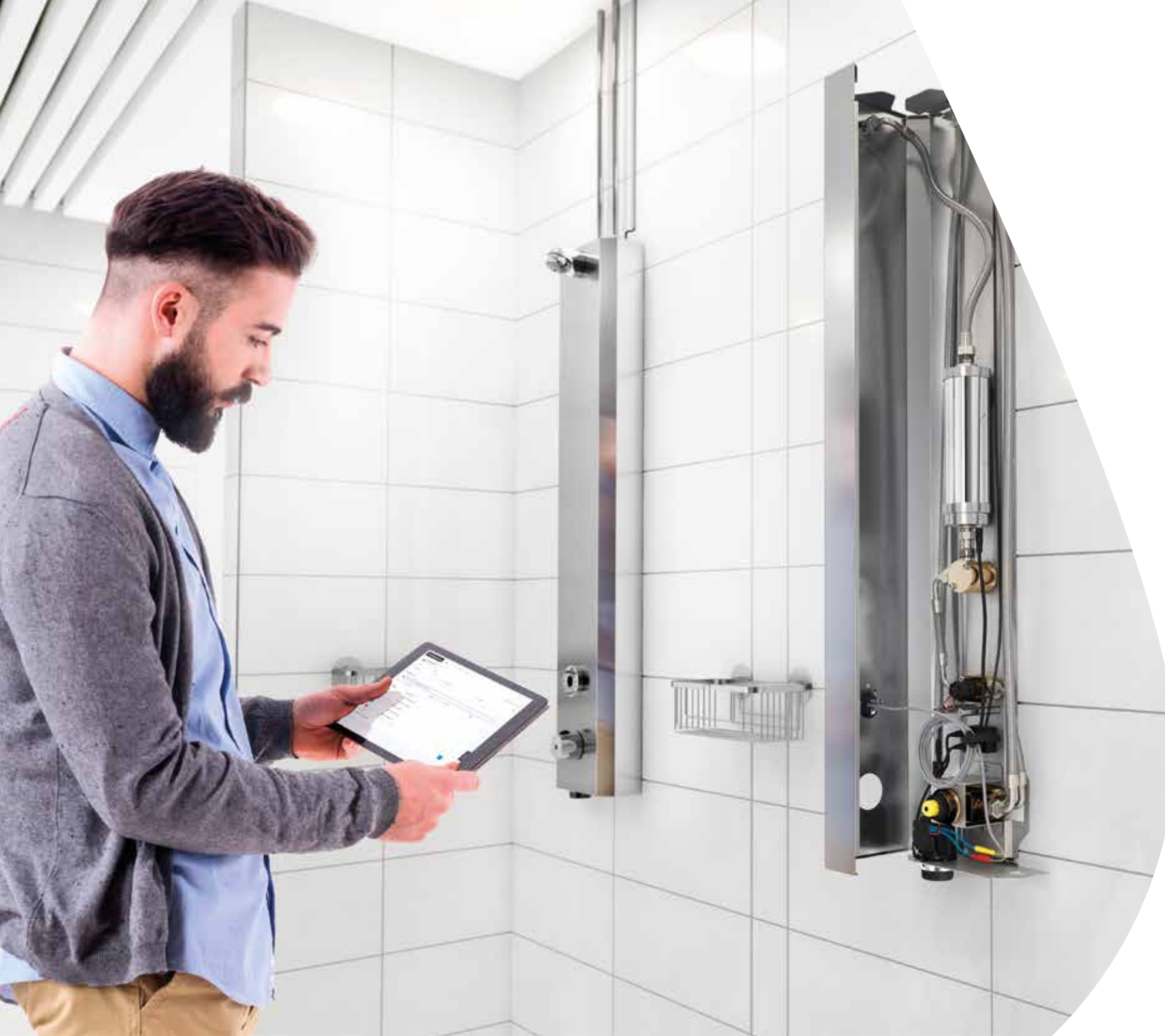


Healthcare



Remote/Mobile





## UVC led – A proven technology in a reinvented shape

Ultraviolet light is a type of electromagnetic radiation transmitted in waves or particles at different wavelengths and frequencies. UVC light (wavelength 200-280 nm) is used for disinfection as it deactivates DNA and RNA of all bacteria, viruses and other pathogens. This deactivation inhibits the microorganism's ability to multiply.

- ▶ Since the 1930s and until now, UV germicidal lamps using mercury have been the standard sterilizing agent in hospitals and industries concerned with microbiological contamination.
- ▶ UVC LED is the future for safe water. Mercury is becoming obsolete and even banned. Today UVC LED generates germicidal light without the use of mercury.
- ▶ Hiroshi Amano, the inventor of efficient blue light-emitting diodes enabling bright and energy-saving white light sources, was awarded the Nobel Prize in Physics for this invention in 2014. These diodes are part of the UVC LED game changing technology used in water purification by Watersprint, together with a patented reactor design and unique ways of controlling water flow.



# Cutting edge research

We aim at changing the game of water purification and act accordingly. That’s why we undertake continuous research to ensure maximum efficiency in our products and applications.

Research includes optimising water flow, light reflection in reactor, geometry of reactor, LED control, flexible emission patterns, and wavelength. Our research aim at maximising inactivation of DNA/ RNA, and thereby ensure safe water.

The unique combination of components, materials, hardware architecture, mechanics, intelligent software and optics is our key success factor. The combination enables exceptional elimination of bacteria such as Legionella, but also viruses, spores and protozoa.




























## Building on general UVC LED advantages

We are proud of our innovative contribution to water purification. Our cutting edge game changing solutions are built on the foundation of the remarkable UVC LED technology,

- ▶ Energy efficient and sustainable.
- ▶ Free from mercury and other toxic chemical elements.
- ▶ Unlimited cycling and no undesirable warm-up of water.
- ▶ Instant on/off power output.
- ▶ Allows for compact design.

# UVC LED compared to other water purifying technologies

UVC LED is the most efficient way to virus and bacteria safe water. Large flows of water used to be a limitation. Thanks to rapid technical progress, powerful UVC LED Point of Entry solutions are within reach.

	UVC LED	UV LAMP	FILTERS	REVERSE OSMOSIS	CHEMICAL TREATMENT
Removes particles					
Removal of virus & bacteria					
Energy efficient					
Easy maintenance					
Instant on/off unlimited cycling					
Compact footprint					
Mercury-free					
Chemical free water					
Low operational cost					

## **Purify Solo** **– Our latest innovation.**

Purify Solo is designed with high quality, versatility, small footprint and cost efficiency in mind.



## **Purify Solo** **– Made in Sweden,** **of course.**

Suitable in applications such as marine and RV,  
as well as residential taps and faucets.





# A product for every need

Genuine expertise within water purification and technology forms the basis for our strong product portfolio. Watersprint's water purification products are compact, flexible and designed to be fitted to showers and taps for clean and safe water free from bacteria and viruses.

## 7 most important product benefits:

- ▶ **Sustainable** – low energy consumption and exchangeable optics to mitigate scaling.
- ▶ **Flexible** – suitable for many different applications.
- ▶ **Reliable** – little or no maintenance.
- ▶ **Easy installation** – plug-and-play.
- ▶ **High-end quality** – Made in Sweden.
- ▶ **Self-cleaning** – can be programmed to disinfect at intervals.
- ▶ **Cost-efficient** – low life-cycle cost.

Learn more – [www.watersprint.com](http://www.watersprint.com)

# Which purifier is right for you?



## Purify Solo

Purify Solo is designed with high quality, versatility, small footprint and cost efficiency in mind. Suitable in applications such as marine and RV, as well as residential taps and faucets.

### The target applications:

- E.g. boats, RVs, water dispensers, industrial and life-science appliances.

### Solo serie:

Solo 10  
Solo 20  
Solo 30 available 2022  
Solo 40 available 2022



## Purify Mini

Purify Mini is a top quality plumbing product intended for long lifetime applications. Purify Mini can collect a set of data e.g., hours of use, time active, and present the information via an interface to your device/system.

### The target applications:

- Taps, water dispensers, RVs.

### Mini serie:

Mini 60 mm  
Mini 160 mm



## Purify Flex

Our powerful Purify Flex series are developed for the higher flow rates in the PoU range. The material is selected to be of equivalent quality as high-end plumbing products. The Flex series has an integrated flow sensor which switches the unit on and off automatically.

### The target applications:

- Legionella control in hospitals, sports centres, schools and apartment buildings.
- Process and food industry.

### Flex serie:

Flex  
Flex Plus  
Flex Advanced





# Sustainability comes naturally

Acting responsibly to Mother Earth's limited resources is a hygiene factor to us. One of the major concerns of the United Nations 2030 Agenda for Sustainable Development is how to raise awareness of, and handle the approaching global fresh water shortfall. We humbly contribute to this by providing solutions for safe water.

## Major sustainable benefits of our solutions to provide safe water:

- ▶ **Eco friendly** – we do not use mercury or other toxic chemical elements in our solutions.
- ▶ **Low power consumption** – LED and our patented reactor design enables solar driven and/or off grid solutions.
- ▶ **Replaceable parts** – parts can be exchanged for extended life span.
- ▶ **Recyclable** – materials are chosen to allow for recycling and/or re-use.

## GREAT IWW TEST RESULTS

Extensive long-term testing of our solution has been undertaken with great results by the well known independent IWW Water Centre testing institute in Germany.





# Our home Medicon Village

Our HQ is located in “The Spark”, an ultramodern office building in the heart of Medicon Village in Lund, Sweden.

Medicon Village has become a world leading life science and cleantech cluster, within walking distance of Ideon Science Park, Lund Technical University and the internationally renowned sites ESS, a multidisciplinary research facility based on the world’s most powerful neutron source, and Swedish national laboratory MaxIV.

**Interested in getting safe water in a sustainable way?  
Contact us today and learn more:**

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