

# Sterile water.



Effective water disinfection using silver ions.



# Disinfected water with...

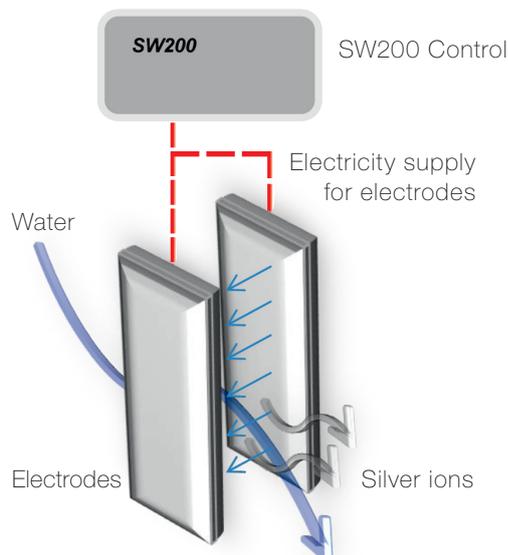
# SILWA water treatment system



## Water disinfection using silver ions

Silver ions penetrate bacteria cells and couple immediately onto vital enzymes. Disabled in this way, the cells die immediately. Trials in a certified laboratory have proven the effectiveness of this method. Untreated water subject to measurement after 4 days returned a value of 1'600 cfu/ml (max. 300 accepted); treated water returned values of only 2 cfu/mL.

Silver ions remain effective even after many years of use. Water always has content which react with silver ions to form insoluble silver salts. These salts produce a depot effect, as they are deposited on the walls of the water system and continually release silver ions into the water. Given the inactivity of the water treatment system over a long period, these ions continue to unfold a disinfectant effect.



## SILWA water treatment system

The SILWA water treatment system is used for the continual and volume-dependent treatment of drinking and process water with silver ions in order to extend its use period.

The system is operated via the SW200 control; ionisation is performed with the silver ion reactor. A current flows between two silver electrodes submerged in the water, which form the silver ions. These enter the water, where they unfold their disinfectant effect.

### Advantages / features

- The depot effect of silver
- Taste- and odourless
- High functional reliability
- Simple and affordable installation
- Minimal operating and maintenance costs

## The selection of applications

### Drinking water

- Private water recording
- Developing countries
- Disaster areas / Emergency water supply
- Rain water tanks / cisterns
- Drinking water tanks railway / coaches / air travel

# SW200 Control



# SWP Reactor cartridge



## SILWA Components

### SW200 silver ion control

- Control and monitoring reactor / silver electrodes
- Simple commissioning and operation
- Recording the water consumption / operating time

### Technical specifications

Supply	230 VAC (24 VDC)
Power input	10 W
Input for the leakage sensor	type SKL (Telma)
Operating temperature	0...50 °C
Degree of protection	IP64
Dimensions (WxHxD)	201 x 121 x 80 mm

### Accessories / options

- Flow sensor
- Connection to the control system
- Bluetooth, GSM module
- OEM Version

### Hygiene

- Shower units (retirement homes, hospitals, hotels etc.)
- Disinfection systems in hospitals
- Private indoor and outdoor swimming pools

### Industrial and raw water

- Process water (printing, electronics etc.)
- Water jet cutting units
- Conservatories and irrigation systems

### Reactor

- Installation direct in the water line
- Simple replacement of the electrodes
- Universal wall bracket

### Technical specifications

Operating temperature	0...80 °C
Water temperature	0...50 °C
Water conductivity	10...1'000 µS/cm
Ionisation capacity	30...100 µg/l
Water flow	3...30 l/min (standard)
Working pressure	8 bar
Water connection	G3/4" NPT (standard)
Degree of protection	IP65
Dimensions (WxHxD)	350 x 145 x 140 mm

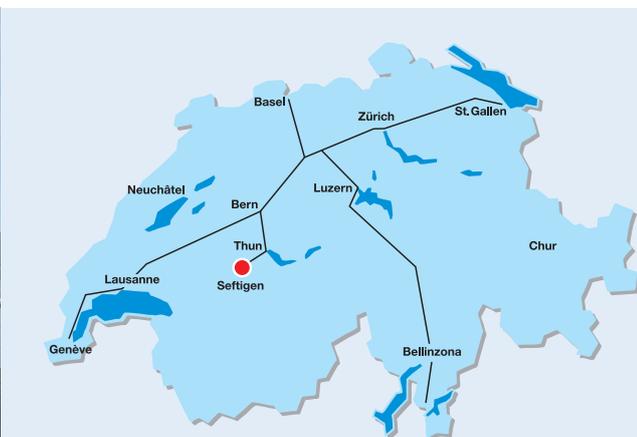
### Options

- Reactor / flow sensor for larger quantities of water
- Special product for use in railways
- Customised development

### Air conditioning

- Cooling towers
- Air washers
- Room humidifiers
- Nebulisers, nozzle systems

# Partnership for life with over 40 years experience.



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All data  
with engagement.

## History

- 1975 Founding of telma ag in Bern
- 1981 Relocation to Ittigen / Bern
- 1991 Move into its own company premises in Seftigen
- 2020 Move into new company building in Seftigen

## Company Divisions

- In-house Products
- Customised Electronics
- Electronics Manufacturing Services (EMS)

## Competences

In addition to our water treatment system SILWA, we offer services in the development and production of electronic control systems. The specific focus on customer requirements is our major strength. Thanks to short distances and a common language, our customers gain valuable time and can enter the market faster. With our own development and production facilities, we are a complete supplier for electronic control systems.

Even complex tasks are simply solved by collaborating with specialised partners. The total costs can be favourably low due to a high degree of automation and very well qualified staff.



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