



# Water quality redefined, for your home and our environment!

The solution for limescale-free water and reliable drinking water, for maximum everyday comfort.



www.evodrop.com

SWISS MADE  SWISS ENGINEERING

# Evodrop for the whole home

*With Evodrop's unique solutions, you bring pure, limescale-free water into your home and rely on a bio-based, environmentally friendly technology that meets the highest standards and demonstrates descaling of up to 94%, verified in an accredited DVGW laboratory.*

*With our in-house developed Ionsieve MaloX™ technology based on malic acid complexes, we can reliably remove limescale. Even when boiling, no limescale deposits form, and all this without environmentally harmful salt or chlorides, unlike outdated descaling systems. At the same time, important minerals such as calcium and magnesium remain in the water. By binding to malic acid, they become more water-soluble, making the water naturally fresher and pleasantly softer. You can feel it, taste it and enjoy it.*



## **Reliable limescale protection**

Ionsieve MaloX™ technology with malic acid provides reliable protection against limescale buildup, with up to 94% limescale protection, confirmed by accredited DVGW and CTI laboratories.

## **Protection for boilers and pipes**

By reliably preventing limescale precipitation in boilers, pipes and water-carrying appliances, service life is significantly extended and material wear is noticeably reduced.

## **Effective nanofiltration**

On request, pesticides, pharmaceutical residues, chemicals, PFAS\* and microplastics can be effectively (>99%) removed from the water without any relevant loss of flow rate.

## **Existing limescale**

By stabilising the calcium carbonate-carbonic acid balance and using malic acid, existing deposits can be dissolved gradually and gently.

## **Save energy costs**

Minimising limescale deposits in heat-transfer systems improves thermal conductivity, lowers energy consumption and sustainably reduces operating costs.

## **Barrier for maximum hygiene**

The patented PlasmaShield-NanoMatrix™ forms an integrated barrier for long-term hygienic safety throughout the cartridge's service life.

## **Designed to be environmentally friendly**

Thanks to its unique limescale protection technology with malic acid, the system works without salt, electricity or wastewater, without compromising effectiveness.

## **Affordable and simple maintenance**

The well-thought-out system design enables particularly easy maintenance with no additional service costs. Filter replacement is tool-free and can be carried out independently at any time.

## **Fine and unobtrusive taste**

The malic acid used is taste-neutral and does not affect the watertaste, regardless of water hardness. Malic acid is used in the food industry as a harmless additive.

# Our Products

The first truly satisfying alternative on the market: Enjoy top water quality throughout your home with proven limescale protection of up to 94%, completely without salt, electricity or wastewater

- ✓ Evidence-based limescale protection
- ✓ Made from high-quality stainless steel 316
- ✓ Integrated hygiene barrier



## Housing

Each year, you are free to choose which cartridge you would like to insert into the module housing.

2a



### EVOdescale

2'300 CHF (incl. housing)

Limescale protection of up to 94 % for soft water throughout the whole home.

#### Filtration:

- ✓ Bacteria & viruses
- ✓ Heavy metals

Annual cartridge replacement of up to 399 CHF.

2b



### EVOadsorb

2'400 CHF (incl. housing)

Limescale protection of up to 80 % + nanofiltration against additional pollutants.

#### Filtration:

- ✓ PFAS\*
- ✓ Bacteria & viruses
- ✓ Heavy metals
- ✓ Microplastics
- ✓ Pesticides
- ✓ Pharmaceutical residues
- ✓ Chlorine

Annual cartridge replacement of up to 499 CHF.

2c



### EVOsorb

2'300 CHF (incl. housing)

Nanofiltration against pollutants and unwanted substances.

#### Filtration:

- ✓ PFAS\*
- ✓ Bacteria & viruses
- ✓ Heavy metals
- ✓ Microplastics
- ✓ Pesticides
- ✓ Pharmaceutical residues
- ✓ Chlorine

Annual cartridge replacement of up to 399 CHF.

3



### EVOtransform

+ 1'200 CHF

EVOtransform enhances the water further for a refined drinking-water experience.

#### Benefits:

- ✓ Comparable to 20 km of stream flow
- ✓ Patented rotation process
- ✓ Completely maintenance-free
- ✓ 20-year guarantee

Maintenance costs: None



180-day money-back guarantee



Installments up to 24 months available



20-year manufacturer's warranty



Service from consultation to installation

## Installation costs\*

Connection fitting (bypass) according to DRV available on-site:

800 CHF (incl. VAT)

No connection fitting (bypass) available on-site:

1'200-1'400 (incl. VAT)

\*Installation costs include materials, labor, commissioning and the service vehicle.

## Warranty

The manufacturer's warranty on the system components is up to 20 years. In addition, a 180-day money-back guarantee is granted on all Evodrop product costs.

All prices are stated including VAT.



# 1 Housing

The most efficient, sustainable and cost-effective solution on the market.

- ✓ Made from premium stainless steel 316 and backed by a 20-year manufacturer's warranty
- ✓ More compact than conventional water softeners
- ✓ No electricity, no wastewater and no unnecessary controls required
- ✓ Tool-free filter replacement for easy handling

<b>Dimensions</b>	H 650 mm W 150 mm
<b>Thread</b>	1-inch flat-sealing male thread
<b>Inlet pressure</b>	Max. 8 Bar

## 2a EVOdescale

Effective limescale protection through a patented process

- ✓ Patented descaling technology
- ✓ Certified limescale protection rate of up to 94%
- ✓ Verified protection for boilers and piping
- ✓ Strong corrosion and rust protection through filtration of all heavy metals
- ✓ Constant filtration of bacteria & viruses
- ✓ No use of environmentally harmful salts
- ✓ No change in pH value

With EVOdescale, our in-house developed and patented Ionsieve MaloX™ technology, a granular malic acid complex, achieves a limescale protection rate of up to 94%. This works without salt, wastewater or electricity. Unlike outdated methods such as seed crystals, swirlers or magnetisers, limescale is not merely transformed, but reliably removed.

Evodrop's process allows valuable minerals such as calcium and magnesium to remain in the water. By binding to malic acid, even when heated to 100 °C no limescale can form. Conventional salt-based softening systems cannot make this distinction and remove both the beneficial minerals and the unwanted limescale.

Ionsieve MaloX™ technology follows a bio-based approach using a nature-inspired process. Malic acid is taste-neutral and is used in the food industry as a harmless additive. It is also an essential intermediate in human energy metabolism and is used in dietary supplements.

In addition, the patented PlasmaShield-NanoMatrix™ technology ensures an integrated barrier for long-term hygienic safety throughout the cartridge's service life.

<b>Flow rate</b>	50 l/min
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**1**

In water, various oxides and mineral ions are present in unbound form.



**Limescale formation**

**2**

Due to pressure, heating or stagnation, these substances bind together and stubborn limescale forms.

**Limescale protection through Ionsieve MaloX™ technology**

**3**

Stubborn limescale bonds flow into the Evodrop system, where the granulated malic acid is located.

**4**

The malic acid dissolves the limescale. Unlike swirlers or magnets, no limescale remains in the water.

**5**

With Evodrop, no limescale can form or settle, even with pressure in the pipes, heating in the boiler and stagnation.

# How is water hardness changed?

Unlike salt systems, where the mineral ions calcium and magnesium are exchanged for sodium ions, our technology works with natural malic acid. In the process, the minerals are bound to the malic acid and thus become up to one hundred times more water-soluble. This means they remain in the water, but can no longer deposit as limescale. The result is soft water: fewer limescale traces, protected appliances and fewer limescale residues on surfaces.

Household appliances are set to 13 °fH, as with a salt system, because the limescale is fully neutralised however. Conventional test strips still show the same hardness value because they react exclusively to free mineral ions. This effect is often used by traditional softening providers for marketing purposes.

Strictly speaking, the TDS value, i.e., the total dissolved solids content, remains unchanged. What matters is that the limescale is bound and the water therefore behaves as soft water.

Experience the benefits of our salt-free water descaling at home. With the free test kit, you can easily try the innovative technology yourself.

All you need is a kettle or a pan and you can already test the impressive descaling performance with malic acid up close. Simply scan the QR code and we will send the test kit conveniently to your home!

**TEST FOR FREE**



Free sample kit

- ✓ No salt, no environmental burden
- ✓ Maximum limescale protection, without taste change
- ✓ Simple self-test, fast and convincing

## 2b EVOadsorb

### The ideal combination of limescale protection and nanofiltration

EVOadsorb combines limescale protection, filtration and hygiene in a single cartridge. Our patented lonsieve MaloX™ technology binds limescale, delivering a limescale protection rate of up to 80%. At the same time, the Nanoporous Adsorber™ filters unwanted substances down to a size of 0,002 micrometers from the water. An integrated hygiene barrier based on PlasmaShield-NanoMatrix™ additionally provides long-term safety.

Unlike conventional activated carbon filters, the filtration material has a membrane-like structure. This innovative adsorption material has up to ten times higher uptake capacity and ensures stable flow rates without noticeable pressure loss. The nanoporous structure binds pollutants long-term and prevents their release back into the water, which is a key advantage over conventional competing products.

This makes EVOadsorb the combination of top filtration performance, long service life and minimal maintenance. For a home with long-term appliance protection, predictable maintenance intervals and stable water quality.

<b>Flow rate</b>	35 L/min
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### 100% short- and long-chain PFAS\*-filtration

## 2c EVOsorb

### Effective water filtration for households without limescale issues or with an existing softening system

EVOsorb is the optimal solution when no limescale protection is required or a softening system is already used, which at a later point could be replaced by Evodrop descaling technology. With its innovative activated carbon based on Nanoporous Adsorber™ technology combined with the integrated PlasmaShield-NanoMatrix™ hygiene barrier, it provides reliable purification of the entire domestic water system. The nanoporous adsorber material removes even the finest pollutants and unwanted substances down to a size of 0.002 micrometers and retains them long-term. At the same time, the flow remains

stable, without any significant pressure loss. EVOsorb impresses with long service life and service-free handling for a home with high filtration performance, stable flow rates and predictable maintenance. impresses with long service life and service-free handling for a home with high filtration performance, stable flow rates and predictable maintenance.

<b>Flow rate</b>	50 L/min
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**2'400 CHF**  
Annual filter replacement  
499 CHF



## X45

The internal filter structure corresponds to an active surface area of around 22 football fields.



The larger the surface area, the more intensive the contact between water and filter medium. Pollutants encounter more binding sites and are reliably retained. The result is high filtration performance with constant flow rate.

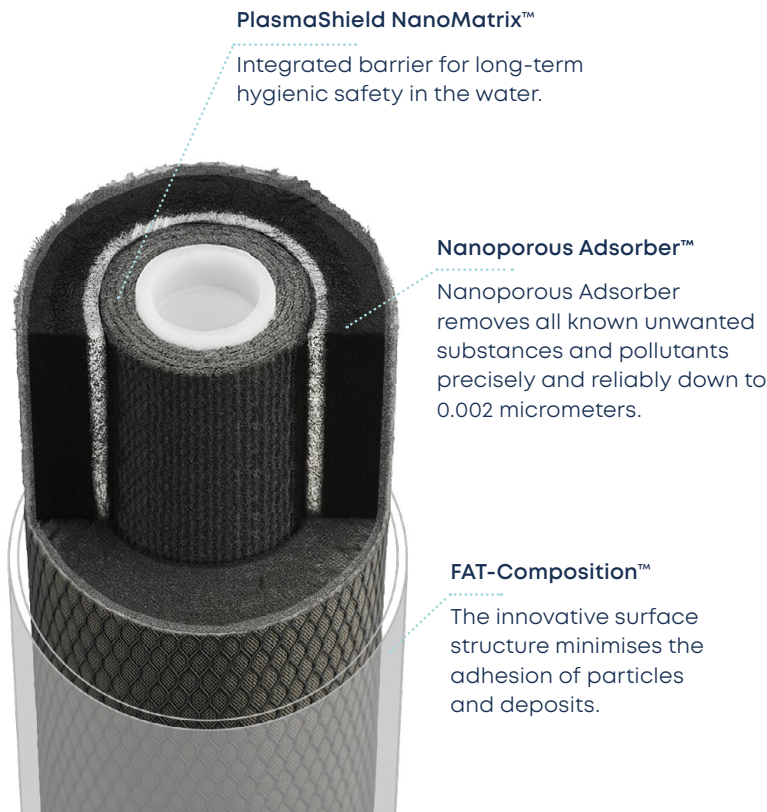
## X90

The filter surface of EVOsorb corresponds to the area of 90 football fields.



**2'300 CHF**  
Annual filter replacement  
399 CHF

# Our filter design



An ant can carry 50 times its own body weight. Impressive, right? Our activated carbon fleece in our filter is just as powerful:

It can absorb 10 to 100 times more pollutants relative to its size than classic filter materials. Maximum filtration with minimal space requirements!

- ✓ 10 to 12x adsorption capacity
- ✓ 0% channeling & pollutant release
- ✓ Constant filtration, regardless of flow speed
- ✓ 50% less pressure loss
- ✓ 5x longer service life
- ✓ Spray pattern remains unchanged

## Filtration of:

- ✓ PFAS\*
- ✓ Bacteria & viruses
- ✓ Heavy metals
- ✓ Pesticides
- ✓ Pharmaceutical residues
- ✓ Microplastics
- ✓ Chlorine
- ✓ Unwanted odour substances



Optional:

## 3 EVOtransform

### For soft and enhanced drinking water

A patented flow process intensively swirls the water and brings it into contact with air. The controlled rotation creates mixing comparable, in principle, to what occurs in a naturally flowing stream over several kilometres.

In doing so, air is integrated physically without changing the water's chemical composition. The result is a sensory change in taste that many describe as clearer and fresher.

- ✓ Patented rotation process
- ✓ More oxygen for a soft taste
- ✓ Completely maintenance-free thanks to unique mechanics
- ✓ 20-year warranty, Swiss Made



Made from high-quality stainless steel, AISI 316

<b>Flow rate</b>	200 l/min
<b>Dimensions</b>	H 130 mm B 60 mm

# Descaling with Evodrop

## Ion exchanger

Set limescale protection rate of approx. 90%

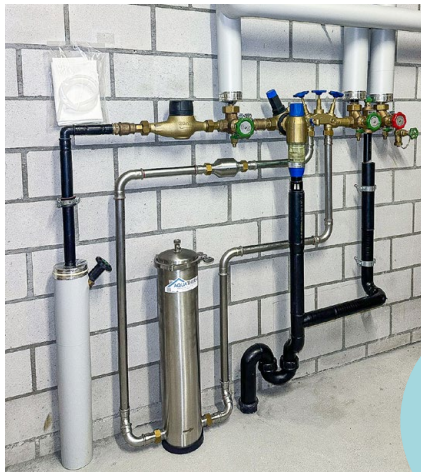
Ion exchange systems for water softening have proven themselves for a long time, but are no longer up to date in many respects. They remove not only limescale from the water, but also minerals such as calcium and magnesium, which can impair the natural quality of drinking water. The continuous use of regeneration salt generates substantial amounts of wastewater with an increased salt load, which burdens the environment and creates additional costs. In addition, regular maintenance is required, as insufficient care increases the risk of microbial contamination. With growing demands for sustainability and resource conservation, these disadvantages are becoming increasingly significant.

- ✗ Release of sodium into drinking water changes the chemical composition of the water
- ✗ Removal of beneficial minerals
- ✗ Increase in potential metal aggressiveness and thus corrosion risks
- ✗ Environmental burden due to a high chloride content in wastewater
- ✗ Risk of microbial contamination in the salt tank during long standstills or insufficient maintenance
- ✗ Creation of special waste through the exchange resin

Without Evodrop



With Evodrop



## Evodrop

Certified limescale protection rate of up to 94%

The efficiency of this water treatment with malic acid was tested by an accredited DVGW laboratory with a verified limescale protection of 94%. This makes it one of the few systems that work without salt and demonstrate strong effectiveness against limescale with solid scientific backing.

- ✓ No salt use and no adverse change to the taste of drinking water
- ✓ No removal of beneficial minerals, such as calcium and magnesium
- ✓ Metal aggressiveness is not negatively affected and no added corrosion risk
- ✓ Sustainable and resource-friendly, as no electricity is used and no wastewater is produced
- ✓ An integrated, patented hygiene barrier provides a high level of safety for drinking water
- ✓ No special waste, as used cartridges can be recycled



At 30 °fH and 300m<sup>3</sup> consumption, an ion exchanger needs approx. 150 kg of salt, which is discharged into the environment.

Evodrop requires only 1 kg of food-grade malic acid.

Certified  
limescale  
protection  
up to 94%

# Tested by independent laboratories

An accredited DVGW laboratory and the internationally renowned CTI test institute were able to demonstrate a limescale protection rate of up to 94%.

As defined in DVGW data sheet W 512, this practical test measures limescale precipitation in a boiler system compared with a boiler system without treated water.

Two tanks were continuously heated to 80 °C, with the heating rods permanently in operation. Every 30 minutes, the system was flushed with fresh water at a hardness of 30 to 34 °fH, a flow rate of 5 l/min and a duration of 1 minute. The tanks were photographically documented regularly and evaluated after 21 days.



Without Evodrop



**Without Evodrop**  
Aggressive limescale crystals form in the water and can easily deposit on surfaces.



With Evodrop



**With Evodrop**  
Evodrop's method dissolves the limescale so it can no longer deposit on surfaces.

## Conclusion

### Conclusion of the DVGW-accredited test laboratory:

It can be concluded that tests carried out in line with DVGW worksheet W 512 led to a clear reduction in limescale deposition in the test boilers. A calculated effectiveness factor of  $f_{W}$ : 1.00 represents the maximum possible value.

### Conclusion of the internationally recognised CTI test institute:

After thorough investigations, Evodrop's limescale protection could be verified with an above-average limescale protection rate of up to 94%. Accordingly, the system is ideally suited for limescale treatment.



Without Evodrop



With Evodrop



# Further safety evidence & studies

	<p><b>Studies on the malic acid complexes at Dartsch Scientific Institut (DE):</b> Cell-culture studies indicate that tap water, after filtration through the system's malic-acid-granulate cartridge, shows measurable changes in its properties.</p> <p><b>Studies on cell interaction at Dartsch Scientific Institut (DE):</b> In independent in-vitro studies, Dartsch Scientific Institut (DE) analysed the properties of treated water compared with untreated water. Under standardised cell-culture conditions, measurable differences were observed – including in parameters related to hydration behaviour and metabolic activity.</p> <p>The results show that the physicochemical properties of the water can change significantly after treatment. The analyses were carried out under laboratory conditions and serve the scientific classification of the technological effect.</p>
	<p><b>Water analyses at SRCMB (Scientific Research Center of Medical Biophysics):</b> A comprehensive study confirmed that the water's conductivity and dissolving capacity through Evodrop change, bringing its characteristics closer to its natural origin.</p>
	<p><b>Europe's largest safety certification for food-contact materials:</b> All components were certified in the Sialab laboratory in accordance with MOCA guidelines. It was confirmed that no substances harmful to health or the environment are transferred into the water.</p>
	<p><b>SGS is the world's largest testing institute for water treatment systems:</b> SGS has officially confirmed that EVOadsorb and EVOsorb filtration filters out &gt;99% of heavy metals, bacteria, viruses, microplastics, pharmaceutical residues, chlorine and pesticides.</p>
	<p><b>The most important certification for food, supplements and medicines in the USA:</b> The FDA has confirmed that the components used are classified as generally safe.</p>
	<p><b>The key certification for materials in contact with water in the EU:</b> RoHS certification for materials in contact with water ensures that no harmful substances enter the water and that the material quality meets the highest environmental and safety standards.</p>
	<p><b>The best-known certification for quality management worldwide:</b> ISO 9001 confirms that all processes and procedures of a company meet the highest quality standards and are continuously improved.</p>
	<p><b>CTI tested our system and confirmed 94% descaling:</b> CTI is one of the world's largest testing institutes for testing, inspections and certifications, with over 13'000 employees, 160 laboratories and more than 90 locations worldwide.</p>



## Evodrop in numbers

>20'000

Cartridges in circulation

>18

Tonnes of malic acid installed

~30'000

Users in total



We are partners of the **Umweltarena**.  
A leading Swiss center for sustainable technologies



**Advanced salt-free descaling and filtration for the entire Umwelt Arena**

As a partner of the Umwelt Arena, we equipped the entire building with our limescale protection and filtration solution. Visitors and employees benefit from clean, filtered and limescale-free water, with reduced levels of pollutants such as PFAS\*.

**Awards and recognitions**



**German Innovation Award 2025 - Gold**  
In 2025, Evodrop received the German Innovation Award Gold for its trail-blazing technology and descaling with malic acid.



**European PropTech Finalist 2024**  
In 2024, Evodrop was nominated among the finalists of the 50 most sustainable and innovative companies in Europe in the real estate sector.



**Aquatech Innovation Award 2025**  
For outstanding innovations in water technology, Evodrop received the Aquatech Innovation Award in 2025.



**Earth05 Impact Catalyst Award 2025**  
In 2025, Evodrop received the Earth05 Impact Catalyst Award for innovation and sustainable solutions in access to water and water quality.



**IMMO Award 2025**  
For its innovative water treatment solution in the real estate sector, Evodrop received the IMMO Award in 2025.



**Green Product Award 2024**  
This award honors products that stand out through innovation and sustainability. From 250 nominated products, Evodrop was able to receive the 2024 award.

**Partners and memberships**



\* In an accredited Swiss laboratory, a new, unused filter and the initial operating phase were tested. After filtration, none of the tested PFAS compounds could be detected anymore. The test report is available upon request.



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Schedule your no-obligation consultation now and let us inspire you by phone or in person on site.

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