



Redefining water quality for your home and our environment

The solution for limescale-free water, maximum comfort and a conscious lifestyle



www.evodrop.com

SWISS MADE  SWISS ENGINEERING

Evodrop for your whole home

With Evodrop's unique solutions, you not only bring pure, limescale-free water into your home, but also rely on a bio-based and environmentally friendly technology that meets the highest standards and has demonstrated up to 94% limescale reduction in tests conducted by an accredited DVGW laboratory.

Thanks to our proprietary IonSiv MaloX® technology, based on malic acid complexes, we are able to remove limescale effectively and reliably. Even when boiled, no new deposits form—without the use of environmentally harmful salts or chlorides. Our systems provide long-term protection for household appliances and plumbing while preserving essential minerals such as calcium and magnesium. By binding these minerals to malic acid, they become up to one hundred times more soluble in water, making it feel and taste noticeably more natural, fresh, and revitalising.



Reliable limescale protection

The IonSiv MaloX® technology, based on malic acid, provides reliable protection against limescale with up to 94% efficiency, as confirmed by accredited DVGW and CTI laboratories

Protection for boilers and pipes

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

Effective nano-filtration

If desired, pesticides, pharmaceutical residues, chemicals, PFAS, TFAS, and microplastics can be removed from the water without any significant loss of flow rate.

Existing limescale

By stabilising the lime-carbonic acid balance and utilising malic acid, existing deposits can be gradually and gently dissolved.

Save on energy costs

Reducing 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 that ensures lasting hygienic safety.

Environmentally friendly design

With its unique malic acid-based limescale protection, the system works entirely without salt, electricity, or wastewater, while maintaining full effectiveness.

Affordable and easy maintenance

The smart system design allows for particularly simple servicing with no additional service costs. The filter can be replaced tool-free at any time.

Pure and safe taste

The malic acid used is taste-neutral and does not affect the flavour of the water, regardless of its hardness. It has long been established and approved for use in the food industry.

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

Up to **94%** limescale protection for reliably soft water in every part of your home

Filtration:

- ✓ Bacteria and viruses
- ✓ Heavy metals

2b



EVOadsorb

Limescale protection **up to 80%** and offers nanofiltration against a wide range of contaminants

Filtration:

- ✓ PFAS and TFAS
- ✓ Bacteria and viruses
- ✓ Heavy metals
- ✓ Microplastics
- ✓ Pesticides
- ✓ Pharmaceutical residues
- ✓ Chlorine

2c



EVOsorb

Nanofiltration against harmful and foreign substances

Filtration:

- ✓ PFAS and TFAS
- ✓ Bacteria and viruses
- ✓ Heavy metals
- ✓ Microplastics
- ✓ Pesticides
- ✓ Pharmaceutical residues
- ✓ Chlorine

3



EVOtransform

The EVOtransform further refines the water for a smooth and enjoyable drinking experience.

Benefits:

- ✓ More oxygen in the water
- ✓ Fresh, mountain spring-like and soft taste
- ✓ Direct cellular availability
- ✓ Completely maintenance-free

Upgrade:
Optional for even more revitalised water



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

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

2a EVOdescale

Effective limescale protection using a patented process

- ✓ Patented descaling technology
- ✓ Certified limescale protection rate of up to 94%
- ✓ Verified protection for boilers and piping systems
- ✓ Strong corrosion protection through heavy metal filtration
- ✓ Continuous filtration of bacteria and viruses
- ✓ No use of environmentally harmful salts
- ✓ Guaranteed durability of one year with water hardness up to 40 °fH

Flow rate	50 l/min
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With EVOdescale, a limescale protection rate of up to 94% is achieved thanks to the specially developed and patented IonSiv MaloX® technology, a granular malic acid complex. This process works entirely without salt, wastewater or electricity. Unlike conventional methods such as seed crystals, vortex devices or magnetic systems, limescale is not just transformed but reliably removed.

The Evodrop process allows valuable minerals like calcium and magnesium to remain in the water. Because they are bound to malic acid, no new scale can form, even when the water is heated to 100 °C. Conventional salt-based softeners cannot make this distinction and remove both the beneficial minerals and the unwanted limescale.

The IonSiv MaloX® technology follows a bio-based approach, using a nature-inspired process. Malic acid is taste-neutral, safe for human health, an essential intermediate in human energy metabolism, and is also used in nutritional supplements.

In addition, the patented PlasmaShield-NanoMatrix® technology provides an integrated barrier that ensures lasting hygienic safety throughout the entire lifespan of the cartridge.



1

Water contains various oxides and ions of minerals in an unbound form.



2

Through pressure, heating, or stagnation, these substances bond together, leading to the formation of stubborn limescale.

Limescale formation

Limescale protection through IonSiv MaloX® technology

3

The stubborn lime compounds flow into the Evodrop system, which contains the granulated malic acid.

4

The malic acid dissolves the limescale. Unlike vortex or magnetic systems, no limescale remains in the water.

5

With Evodrop, no limescale can form or deposit — even under pipe pressure, heating in the boiler, or periods of stagnation.

How is the water hardness affected?

Unlike salt-based systems, where the mineral ions calcium and magnesium are exchanged for sodium ions, our technology works with natural malic acid. The minerals are bound to the malic acid, making them up to one hundred times more water-soluble. This means they remain in the water but can no longer form limescale deposits. The result is the same as with soft water: no limescale marks, protected appliances, and a noticeably smoother feel on the skin.

Household appliances are set to 13 °fH, as with a salt-based softener, since the limescale is fully neutralised. Conventional test strips, however, still show the same hardness level, as they react only to free mineral ions. This effect is often used by traditional softener manufacturers for marketing purposes.

The TDS value — the total amount of dissolved solids — technically remains unchanged. What truly matters is that the limescale is bound, causing the water to behave as if it were soft.



TEST FOR FREE

Experience the benefits of our salt-free water descaling system right in your own home. With the free test kit, you can easily try out this innovative technology for yourself.

All you need is a kettle or a pot — and you can experience the impressive limescale removal power of malic acid firsthand. Simply scan the QR code, and we'll send the test kit conveniently to your home!



Free sample kit

- ✓ No salt, no environmental impact
- ✓ Maximum limescale protection with no change in taste
- ✓ Simple self-test — quick and convincing

2b EVOadsorb

The ideal combination of limescale protection and nano-filtration

In the EVOadsorb, limescale protection, filtration, and hygiene are combined in a single cartridge. Our patented IonSiv MaloX® technology binds limescale, providing up to 80% protection. At the same time, the Nanoporous Adsorber® filters out impurities as small as 0.002 micrometres. An integrated hygienic barrier based on the PlasmaShield-NanoMatrix® ensures lasting safety over time.

Unlike conventional activated carbon filters made from powder or granulate, the filtration material is membrane-like in structure. This innovative adsorptive material offers up to ten times higher absorption capacity and guarantees stable flow rates without noticeable pressure loss. The nanoporous structure permanently binds contaminants and prevents their release back into the water — a decisive advantage over conventional products.

The EVOadsorb thus combines superior filtration performance with long service life and minimal maintenance — for a home that offers lasting protection and where you can feel safe and completely at ease.

Flow rate	35 l/min
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X45

The filter surface of the EVOadsorb is equivalent to the size of 45 football fields.



2c EVOsorb

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

The EVOsorb is the perfect solution when limescale protection is not required or when a softening system is already in place that may later be replaced by Evodrop's descaling technology. With its innovative activated carbon based on Nanoporous Adsorber® technology, combined with the integrated PlasmaShield-NanoMatrix® hygiene barrier, it ensures reliable purification of the entire household water supply.

The Nanoporous Adsorber® material removes even the finest contaminants and impurities down to 0.002 micrometres, retaining them permanently. At the same time, the flow remains stable without any significant pressure loss. The EVOsorb stands out for its long lifespan, maintenance-free operation, and guaranteed superior water quality for a home that offers safety, comfort, and complete peace of mind.

Flow rate	50 l/min
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X90

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

DID YOU KNOW?

Our patented filter design

PlasmaShield-NanoMatrix®

Integrated barrier for long-lasting hygienic safety in the water.

Nanoporous Adsorber®

Nanoporous adsorber precisely removes common contaminants down to 0.002 micrometres.

FAT-Composition™

The innovative surface structure minimises the adhesion of particles and deposits.

An ant can carry up to 50 times its own body weight – impressive, isn't it? The activated carbon fleece in our filter is just as powerful:

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

- ✓ 10–12× higher adsorption capacity
- ✓ 0% channel formation & contaminant release
- ✓ 2–3× faster flow rate
- ✓ 50% less pressure loss
- ✓ 5× longer lifespan

Filtration of:

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



Optional:

3

EVOtransform

For soft and refined drinking water

In the EVOtransform, the water is set into a highly dynamic motion of up to 100,000 revolutions per minute by a patented rotational nozzle. This process is inspired by the natural flow and vortex patterns of a mountain stream over several kilometres. The resulting rotational forces reorganise the internal structure of the water and increase its effective surface area.

As a result, the water achieves optimal solubility and conductivity, significantly enhancing its functional quality. At the same time, oxygen bonding is intensified, refining the taste and creating an exceptionally fresh, clear, and pleasantly soft drinking experience.

- ✓ Patented rotational process
- ✓ More oxygen for a smoother taste
- ✓ Completely maintenance-free thanks to its unique mechanism



Made of premium 316 stainless steel

Dimension	H 130 mm	W 60 mm
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Descaling with Evodrop

Ion exchange

Set limescale protection rate of approximately 90%

Ion exchange systems for water softening have long been proven effective but are no longer up to date in many respects. They not only remove limescale from the water but also essential minerals such as calcium and magnesium, thereby compromising the natural quality of drinking water. The continuous use of regeneration salt produces significant amounts of wastewater with a high salt load, which harms the environment and leads to additional costs. Furthermore, regular maintenance is required, as insufficient care increases the risk of microbial contamination. In light of growing demands for sustainability and resource conservation, these disadvantages are becoming increasingly important.

- ✗ Release of sodium into drinking water alters its chemical composition
- ✗ Removal of beneficial minerals
- ✗ Increased potential for metal aggressiveness and associated corrosion risks
- ✗ Environmental burden due to high chloride levels in wastewater
- ✗ Risk of microbial contamination in the salt tank during extended downtime or poor maintenance
- ✗ Generation of hazardous waste from used ion exchange resin

Without Evodrop



With Evodrop



Evodrop

Certified limescale protection rate of up to 94%

The efficiency of this malic acid-based water treatment was tested by an accredited DVGW laboratory and confirmed with a proven limescale protection rate of 94%. This makes it one of the few systems that operate without salt and can demonstrate scientifically validated effectiveness against limescale.

- ✓ No use of salt and no negative impact on the taste of drinking water
- ✓ No removal of beneficial minerals such as calcium and magnesium
- ✓ No increase in metal aggressiveness and no risk of corrosion
- ✓ Sustainable and environmentally friendly as no electricity or wastewater is required
- ✓ An integrated and patented hygiene barrier ensures high drinking water safety
- ✓ No hazardous waste, as used cartridges can be recycled



At 30 °fH and a water consumption of 300 m³, a conventional ion exchange system requires approximately 150 kg of salt, which is released into the environment.

Evodrop, by contrast, needs only 1 kg of food-grade malic acid for the same result.

Certified
limescale
protection of
up to
94 %

Tested by independent laboratories

A DVGW-accredited laboratory and the internationally renowned testing institute CTI were able to confirm a limescale protection rate of up to 94%.

As defined in DVGW datasheet W 512, this practical test measures limescale precipitation in a boiler system compared to a boiler system using untreated water.

Two tanks were continuously heated to 80 °C, with the heating elements running constantly. Every 30 minutes, the tanks were flushed with fresh water at a hardness level of 30 to 34 °fH, a flow rate of 5 l/min, and a duration of 1 minute. The tanks were regularly documented with photographs 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 limescale, preventing it from depositing on surfaces.

Conclusion

Conclusion of the DVGW-accredited testing laboratory:

It can be concluded that the tests conducted in accordance with DVGW guideline W 512 resulted in a significant reduction of limescale deposits in the test boilers. A calculated effectiveness factor of fW: 1.00 represents the highest possible value.

Conclusion of the internationally recognised testing institute CTI:

After thorough examinations, Evodrop's limescale protection was verified with an above-average protection rate of up to 94%. The system is therefore ideally suited for effective limescale treatment.

Without Evodrop



With Evodrop



Additional safety certifications and studies

	<p>Studies on malic acid complexes conducted by the Dartsch Scientific Institute (Germany): Cell culture studies show that tap water filtered through the malic acid granulate cartridge of the filtration system exhibits measurable changes in its properties. These include indications of improved intestinal barrier integrity and a reduction in free radical formation.</p> <p>Studies on cellular availability of water conducted by the Dartsch Scientific Institute (Germany): In cell culture experiments, the Dartsch Scientific Institute (Germany) observed that water treated by the system showed specific changes compared to untreated water. These included, among other things, positive differences in hydration capacity and basal cellular metabolism.</p>
	<p>Water analysis conducted by SRCMB (Scientific Research Center of Medical Biophysics): A comprehensive study confirmed that Evodrop treatment changes and optimises the conductivity and solubility of the water, bringing its properties closer to those of natural source water.</p>
	<p>Europe's largest safety certification for materials in contact with food: All components were certified by the Sialab Laboratory in accordance with the MOCA directive. It was confirmed that no harmful or environmentally hazardous substances are released into the water.</p>
	<p>SGS is the world's largest testing institute for water treatment systems: SGS has officially confirmed that the EVOadsorb and EVOsorb filtration systems remove more than 99% of heavy metals, bacteria, viruses, microplastics, pharmaceutical residues, chlorine and pesticides.</p>
	<p>The most important certification for food, supplements and pharmaceuticals in the USA: The FDA has confirmed that the components used are generally recognized as safe.</p>
	<p>The key certification for materials in contact with water in the EU: RoHS certification for water-contact materials ensures that no harmful substances are released into the water and that the material quality meets the highest environmental and safety standards.</p>
	<p>The world's most recognized certification for quality management: ISO 9001 confirms that all processes and procedures within a company meet the highest quality standards and are subject to continuous improvement.</p>
	<p>CTI tested our system and confirmed 94% descaling performance: CTI is one of the world's largest testing, inspection and certification institutes, with over 13,000 employees and 160 laboratories across more than 90 global locations.</p>

Evodrop in numbers

>20'000

Installed
cartridges

>18

Tons of malic
acid used

~30'000

Customers



As a partner of the Umwelt Arena, we equipped the building with our limescale protection technology.



To the NZZ article



Advanced salt-free descaling for the entire Umwelt Arena

As a partner of the Umwelt Arena, we have equipped the entire building with our advanced limescale protection technology. Employees and visitors enjoy clean, filtered and limescale-free water. Contaminants such as PFAS and TFAS are completely removed from the water.

Awards and Recognitions



German Innovation Award 2025 - Gold
In 2025, Evodrop received the German Innovation Award in Gold for its pioneering malic acid-based limescale removal technology.



European PropTech Finalist 2024
In 2024, Evodrop was named one of the 50 most sustainable and innovative companies in the European real estate sector.



Aquatech Innovation Award 2025
Evodrop received the Aquatech Innovation Award 2025 for outstanding innovations in the field of water technology.



Earth05 Impact Catalyst Award 2025
In 2025, Evodrop received the Earth05 Impact Catalyst Award for its innovations and sustainable solutions in the areas of water access and water quality.



IMMO Award 2025
Evodrop was honored with the IMMO Award 2025 for its innovative water treatment solution in the real estate sector.



Green Product Award 2024
This award recognizes products that stand out through innovation and sustainability. From a pool of 250 nominees, Evodrop was honored with the 2024 award.

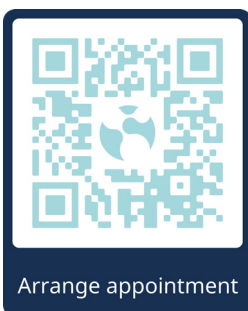
Partners and Memberships





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Book your free consultation now and let yourself be inspired by phone or in person on site.



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