

**SCALE PREVENTION
CORROSION PREVENTION
BIOFOULING CONTROL**

**FILTERSORB
FILTRATION
ADSORPTION
INSTANT PRODUCTS
OXY TREATMENT
SYSTEMS**

FilterSorb SCB[®] System

ADVANCED TRIPLE-PROTECTION WATER TREATMENT SYSTEM

INTRODUCTION

Modern residential water systems face increasing challenges from scale formation, corrosion damage, and microbial growth. The **FILTERSORB SCB[®]** System provides a new generation solution that protects entire plumbing infrastructure without the need for salt, chemicals, or complex maintenance.

Engineered with proprietary German technology, the **FILTERSORB SCB[®]** System integrates advanced scale prevention, corrosion protection, and biofilm control into one compact and efficient treatment solution.

APPLICATIONS



Apartments and Residential Complexes



Villas and Single-family Homes



Multi-family Housing



High-rise Buildings



Hotels and Institutional Facilities



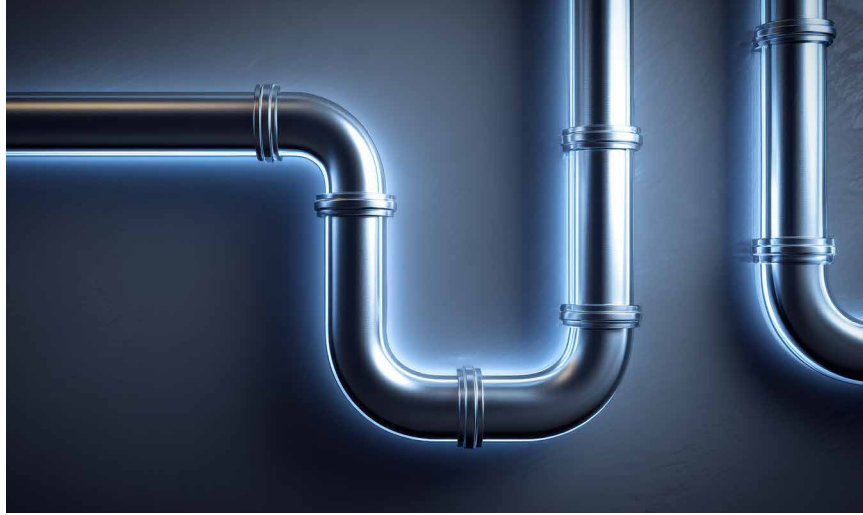
FILTERSORB[®] SCB



PREMIUM QUALITY
MADE IN GERMANY

FILTERSORB

- FILTRATION
- ADSORPTION
- INSTANT PRODUCTS
- OXY TREATMENT
- SYSTEMS



THE CHALLENGE IN MODERN BUILDINGS

Water quality plays a critical role in maintaining efficient plumbing infrastructure and ensuring long-term operational reliability in residential buildings. Hard water and chemically aggressive conditions lead to several common problems:

Scale buildup forms inside pipes and heat exchangers, reducing flow efficiency and increasing energy consumption. Corrosion gradually weakens pipelines, causing leaks, contamination risks, and expensive repair work. Meanwhile, biofilm development within plumbing systems can create hygienic concerns and reduce overall system performance.

Traditional solutions such as ion-exchange water softeners often address only one issue, “scale”, while introducing new challenges such as sodium addition, wastewater discharge, and ongoing maintenance requirements.

The **FILTERSORB SCB[®]** System was developed to overcome these limitations by providing a complete, integrated solution that protects plumbing systems against multiple threats simultaneously.

WHAT IS FILTERSORB SCB[®] SYSTEM

The **FILTERSORB SCB[®]** System is a comprehensive water treatment technology based on an advanced multi-media formulation developed by **Watch Water[®]**.

This proprietary formulation combines three complementary technologies:

Advanced Scale Prevention (FilterSorb SP3)

Using nucleation assisted crystallization (NAC), hardness minerals are transformed into stable microscopic crystals that remain suspended in water and do not adhere to surfaces. This prevents new scale formation while gradually helping remove existing deposits.

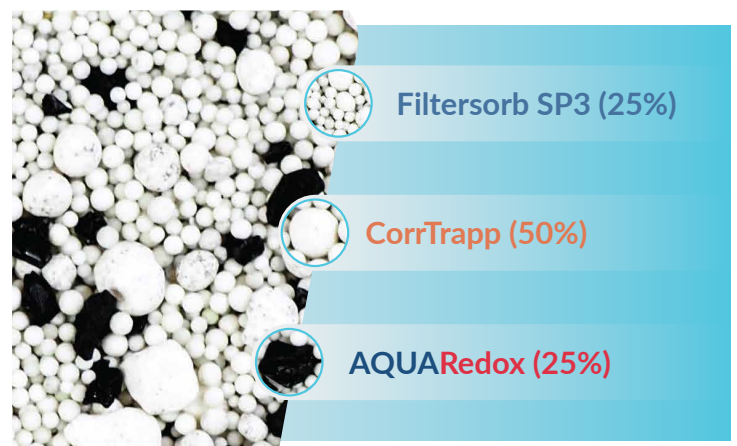
Corrosion Protection (CorrTrapp Technology)

Magnesium-based corrosion control stabilizes water chemistry and protects pipes, valves, and equipment from deterioration. By reducing corrosive conditions, the system extends infrastructure lifetime and improves water safety.

Biofilm Control and Advanced Redox Filtration (AQUARedox Technology)

Advanced oxidation-reduction processes create a highly active treatment environment that helps reduce biofilm formation, supports microbial control, and removes a wide range of organic and inorganic contaminants.

Together, these technologies create a triple-protection system designed to safeguard residential water systems comprehensively.



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WHY CHOOSE FILTERSORB SCB® SYSTEM

Modern water challenges require more than single-function solutions.

FILTERSORB SCB® combines scale prevention, corrosion protection, and biofilm control into one integrated system designed for sustainability, efficiency, and long-term reliability.

With no chemicals, no salt, and minimal maintenance requirements, it represents the next generation of water treatment technology.

PROTECTING DRINKING WATER QUALITY THROUGHOUT THE BUILDING

TRIPLE PROTECTION FOR INFRASTRUCTURE & DRINKING WATER QUALITY

Beyond protecting plumbing infrastructure, the **FILTERSORB SCB®** System contributes to improved drinking water quality by stabilizing water chemistry and reducing conditions that promote contamination.

By combining scale prevention, corrosion control, and advanced redox technology, the system helps maintain hygienic water conditions from the building entry point to every faucet. Corrosion protection reduces the risk of metal leaching from pipes, while advanced oxidation-reduction processes help control biofilm development and support cleaner water distribution systems.

Unlike conventional softening technologies that alter mineral balance, **FILTERSORB SCB®** preserves essential minerals such as calcium and magnesium, maintaining the natural quality of drinking water while protecting infrastructure.

ADVANTAGES OVER CONVENTIONAL SYSTEM

Feature	Filtersorb SCB	Water Softener
Scale Prevention	100% Effective	High Sodium
Corrosion Resistance	High	None
Biofilm Control	Excellent	None
Salt (NaCl Needed)	None	Regular NaCl Needed
Maintenance	None	Regular Maintenance Needed
Environmental Impact	Very Eco-Friendly	High wastewater Generation
Operating Cost	None	High

The Advanced Solution For
**SCALE
CORROSION AND
BIOFILM
PREVENTION**





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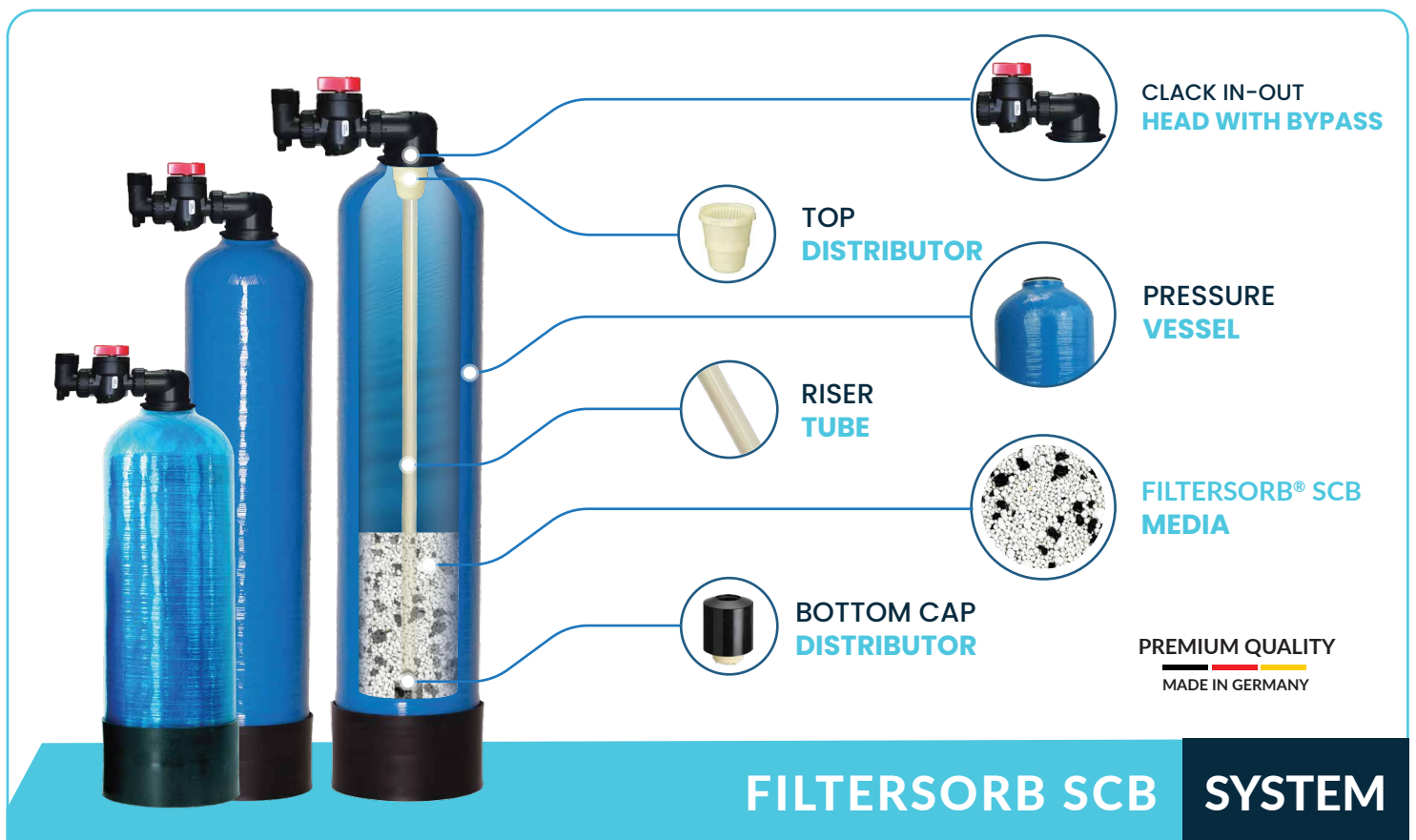
SYSTEM WORKING PRINCIPLE

The **FILTERSORB SCB®** System operates using an up-flow design that maximizes media contact and ensures efficient treatment performance.

Incoming water enters the vessel from below and flows upward through the specialized media bed. As water passes through the media:

Hardness minerals undergo nucleation-assisted crystallization, preventing scale formation. Corrosion-control components stabilize chemical conditions that lead to metal degradation. Advanced redox media promotes oxidation-reduction reactions that reduce biofilm formation and support contaminant removal.

Treated water exits the system with preserved mineral content but without the conditions that lead to scale buildup, corrosion, or microbial growth.



FILTERSORB SCB SYSTEM

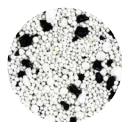
+ ADDITIONAL COMPONENTS



Mounting Block



Armoured Flexible Pipes



FILTERSORB® SCB Media For Refill

Note: All system photographs and internal illustrations presented in this brochure correspond to models equipped with 1" inlet and outlet connections. For systems with larger pipe sizes component arrangements may differ accordingly.



SYSTEM RANGE AND CONFIGURATION

The **FILTERSORB SCB®** System can be configured for a wide range of residential applications, from single-family homes to large high-rise buildings.

System sizing depends on flow demand and water characteristics.

Tank*				Filtersorb® SCB Media Volume (liter)*	Service Flowrate (m³/h)*	Service Flowrate (GPM)*
Tank Size	Tank Diameter (cm)	Tank Height (cm)	Tank Volume (liter)	(liter)	Max	Max
1" Connection						
8 x 17	20.8	43.1	11	2	0.5	2.2
7 x 35	18.4	90	20.4	4	1.0	4.4
8 x 30	20.8	76.2	22	4	1.0	4.4
8 x 35	20.8	88.9	25.7	6	1.5	6.6
8 x 44	20.8	111.7	31.2	8	2.0	8.8
10 x 35	25.4	25.4	38.9	10	2.5	11.0
10 x 44	25.4	111.7	49	12	3.0	13.2
10 x 54	25.4	137.1	60.7	16	4.0	17.6
12 x 52	30.4	132	84	20	5.0	22.0
13 x 54	33	137.1	103	28	7.0	30.9
2" Connection						
14 x 65	35.5	165.1	140	36	9.0	39.7
16 x 65	40.6	165.1	170	44	11.0	48.5
18 x 65	45.7	165.1	250	64	16.0	70.5
4" Connection						
21 x 60	53.3	152.4	310	80	20.0	88.2
24 x 69	60.9	175.2	435	108	27.0	119.0
30 x 72	76.2	182.8	712	180	45.0	198.4
36 x 72	91.4	182.8	1072	268	67.0	295.4
42 x 78	106.6	198.1	1360	340	85.0	374.8
48 x 82	121.9	208.2	1840	460	115.0	507.1

The following system information are based on our standard system design, and we suggest checking with **FILTERSORB® SP3** operating parameters or contact us for assistance.

FILTERSORB SCB BENEFITS

Easy Installation and set up

- Long media life
- No Regeneration
- No Salt required
- No Backwash
- No Electricity
- No Maintenance
- Provide the best quality healthy water without the addition of Sodium or Phosphates

**ENGINEERED
FOR INFRASTRUCTURE.
DESIGNED FOR
HEALTH**



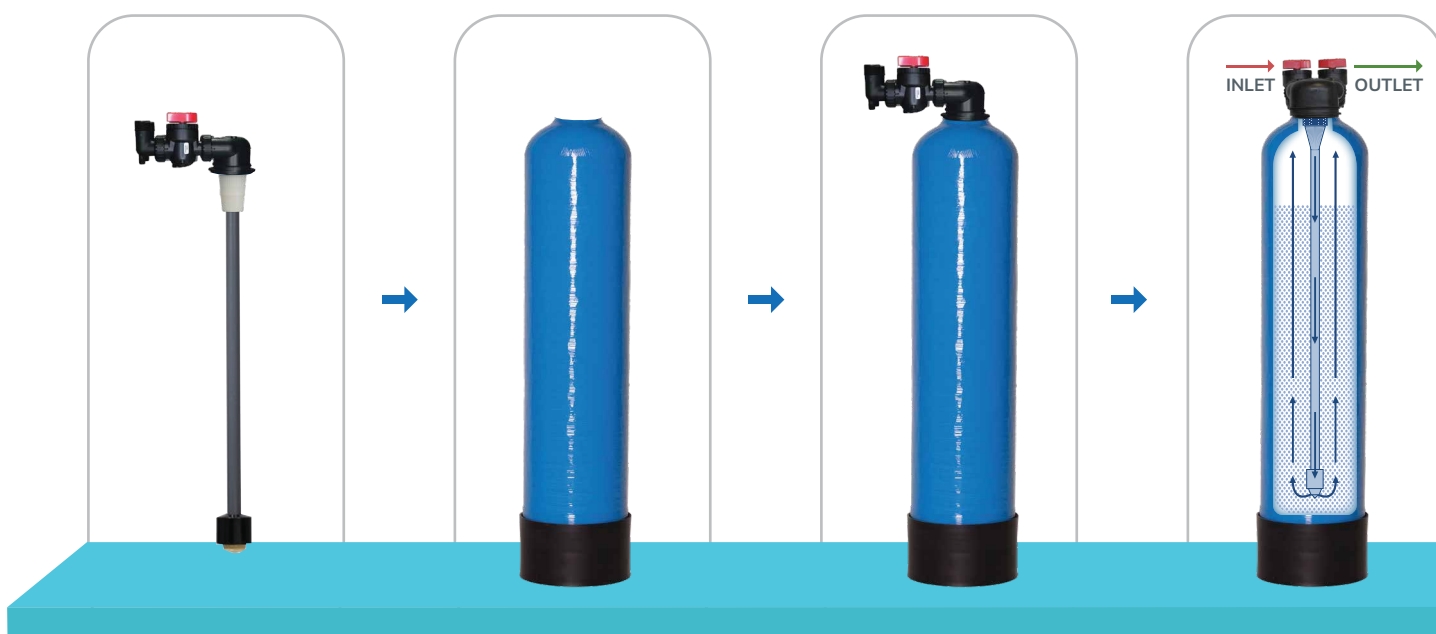
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SYSTEM ASSEMBLY

FILTERSORB SCB[®] System is extremely easy to install. You save your time, money & maintenance costs. The main four components are

1. Watch In/Out Head
2. Riser tube
3. Top & Bottom Distributor
4. Pressure Vessel



Watch In/Out Head Components & the Bottom Distributor

Assembled Riser tube with Watch In/Out Head & Bottom Distributor

The Pressure Vessel is filled with FilterSorb SCB Media

The Ready-To-Use FilterSorb SCB System

OPERATING CONDITIONS

- Upflow configuration for optimal media interaction.
- Operating temperature range between 5°C and 80°C.
- Suitable pH range from 6.0 to 9.5.
- Top Distributor: 0.2 mm slot size
- Minimum pressure: 1 bar
- Maximum Pressure :10 bar

TECHNICAL SPECIFICATIONS

System Type	Designed for up-flow operation without backwash.
Pressure Vessel Size	Must be 4x the volume of FilterSorb SCB media used.
Flow Rate	Customizable based on water demand and application.
Longevity	A lifespan of 3–5 years, depending on water quality.



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INSTALLATION AND MAINTENANCE

Installation of the **FILTERSORB SCB®** System is straightforward and requires minimal technical complexity.

The system is installed inline within the main water supply using an upflow configuration. After connection to the inlet and outlet piping, the system is ready for operation without programming, electrical supply, or chemical dosing.

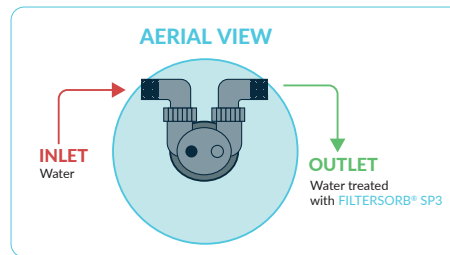
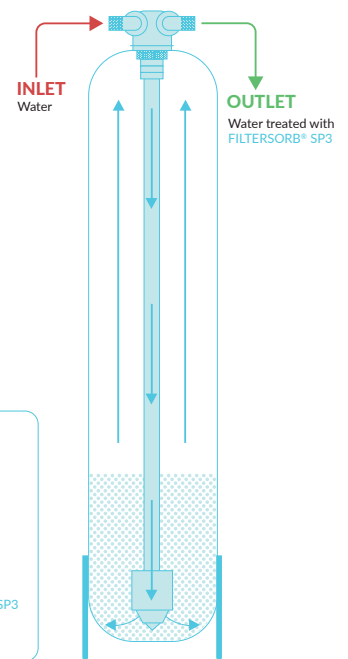
Unlike traditional treatment systems, **FILTERSORB SCB®** requires no regeneration cycles, no salt handling, and no backwashing. Routine inspection and periodic media replacement ensure long-term performance.

UPFLOW SYSTEM INSTALLATION & STARTUP

- 1** Place the system with **FILTERSORB® SCB** in the desired location, protected against direct sunlight.
- 2** Connect the cold water supply to the system inlet. Note: The system with **FILTERSORB® SCB** works in upward flow unlike conventional softeners.

It is important to install the system according to the direction marked by the arrows located on the equipment valve.
- 3** Install the outlet pipe from the equipment to the home feeding.
- 4** Connect the cold water supply to the equipment inlet and slowly open the supply valve (provided by the user) to the system with **FILTERSORB SCB®**. Then, open the gradually the system outlet valve (provided by the user).

- 5** Open the flow valves to eliminate air in the system with **FILTERSORB® SCB** and the pipe.
- 6** Make sure there are no leaks in the system and/or installation. Repair them if necessary
- 7** The system is now ready for use.



Disclaimer:

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