# **Breakthrough Scale Prevention Technology**





RED-OXYTREATMENT FILTRATION ADSORPTION

FILTERSORB

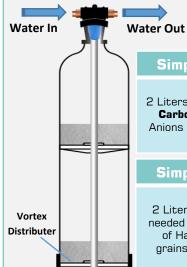
INSTANT PRODUCTS

# FILTERSORB® 100

# SCALE PREVENTION MEDIA BASED ON NAC TECHNOLOGY

# FILTERSORB® 100 Process Description

#### **Nucleation Assisted Crystallization**



# Simple Calculation

#### Chamber 1.

2 Liters of Filtersorb SPA +
CarbonTrapp to Remove
Anions From Hardwater upto 50 grains.

#### Simple Calculation

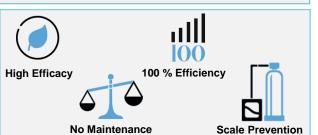
#### Chamber 2.

2 Liters of **Filtersorb SP3** needed to treat 1000 liters of Hardwater up-to 50 grains Life of Media 7-10 years

- A. Up Flow Tank Adapter R 1'' 1½'' 2" Flow Rates 0.5m<sup>3</sup> to 20m<sup>3</sup>
- B. Vortex tanks 40% Chamber 1 60% Chamber 2

For Sizes please ask Watch Water®

C. Tools to Fill Chambers 1 and 2.



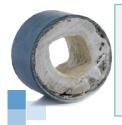
# **○ 100% Scale Prevention**

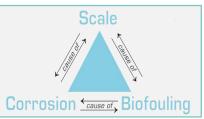
# Watch Water® Challenge

All over the world, the ground water contains geologically — caused **Calcium**, **Magnesium**, **Silicate** and **Sulphate** in high concentration. The overall water hardness can reach values of more than 20 to 80 grains. (1) Grain is equal to 17.1mg of **CaCO**<sub>3</sub>. Hardwater causes many problems in both private households and Industry. Therefore everybody has to install a water softener system to remove this significantly increased content of Calcium and Magnesium but they also have to remove silicates and sulphates which cannot be removed through a water softener. To remove this they have to install partial desalination and this is very expensive.

With FILTERSORB® SP3 and FILTERSORB® SPA each household can save 2 Euro per cubic meter compared with the use of household water softener.

At the same time, the **FILTERSORB®** 100% process provides 100% corrosion protection that means better water quality than traditional softening systems. The toxic metals such as Lead and Copper are reduced 100%. This is the reason to give it the name "**FILTERSORB®** 100".







RED-OXYTREATMENT FILTRATION ADSORPTION

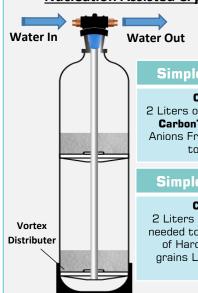
FILTERSORB

NSTANT PRODUCTS



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# **Products to Order**

- > My Magnesium Filter
- > My Filtersorb-SP 100
- > My Titan Filter
- My Katalox-Light Filter
- My Catalytic Carbon Filter
- > My Trappsorb Filter
- > My Nitrotrapp Filter





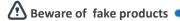
# **HOW FILTERSORB® 100 WORKS**

The Iron and Manganese free Hardwater flows through the FILTERSORB® SP3 chamber 2 here the Partial Softening takes place Temporary Hardness, Calcium, Magnesium and Carbonate hardness are separated into  $CaCO_{3(S)}$  crystals and  $CO_{2(g)}$ . Water flows with  $CaCO_3$  crystals and Anions such as sulphates and silicates including carbon dioxide. The produced carbon dioxide, sulphates and silicates are removed in upstream Chamber No. 1 via FILTERSORB® SPA. From the Chamber No.1 the treated water moves the following application.



### **Benefits**

- ➤ Effective removal of hardness, Lead, Copper, Sulphates, Silicates and CO₂ from water.
- ightharpoonup Simultaneous removal of Cations and Anions without corrosion effects of  $\mathrm{CO}_2$  in water.
- > Zero Operating Costs without any Electric and Regeneration Costs.
- > **Problem free operation** with absolute no automation.
- Fast capacity increases by FILTERSORB® SP3 and SPA addition.
- Especially Environmentally friendly process
- > Reduce 100% CO<sub>2</sub> the greenhouse gas (Carbon Dioxide) during the operation
- Can be installed Worldwide to produce Scale Free Operation.





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