

RFSP-PLUS LIMESCALE PREVENTION WATER FILTER

RFSP-PLUS LIMESCALE PREVENTION WATER FILTER PLUS ACTIVATED CARBON – EFFECTIVE LIMESCALE PREVENTION, FILTRATION AND MICROBIAL REDUCTION

3-STEP-TECHNOLOGY

- limescale prevention
- filtration
- microbial reduction

The **RFSP-Plus** filter is a limescale prevention water filter which, thanks to its 3-step-technology, combines limescale prevention, filtration and microbial reduction in one filter. Due to its characteristics, the **RFSP-Plus** water filter offers the all-in-one solution for many water treatment problems for a wide variety of settings such as household, business and industry.

1. LIMESCALE PREVENTION

Due to the environmentally friendly limescale prevention granulate SP3 incorporated into the water filter, lasting and assured protection against all types of lime residue and their unwanted side effects.

Result: No bothersome lime residue on faucets and tiling, less cleaning effort required and prevention of high costs for maintenance and repairs of pipes and heat exchangers due to corrosion.

2. FILTRATION

In addition to the incorporated limescale prevention granulate SP3, the **RFSP-Plus** water filter also consists of the finest activated carbon powder (food-safe according to DIN: EN 12915), which provides for high performance water filtration. Thus, sediments, heavy metals and organic compounds such as herbicides, pesticides and medicinal product residues, solvents as well as chlorine are removed from the water or reduced in a natural way. The scent and taste of the treated water is optimised.

3. MICROBIAL REDUCTION

Lime residue facilitates the formation of microbes. Due to the limescale prevention, which the **RFSP-Plus** provides for, a microbial reducing effect is achieved.

AREAS OF USE

- private sector
(houses, flats, mobile homes, yachts)
- doctors' offices
(especially dentists & ENT doctors)
- gastronomy (ice makers, coffee machines, dish washers, steamers, vending systems)
- business/industry (air humidification, cooling water, metalworking, injection moulding, etc.)



ADVANTAGES

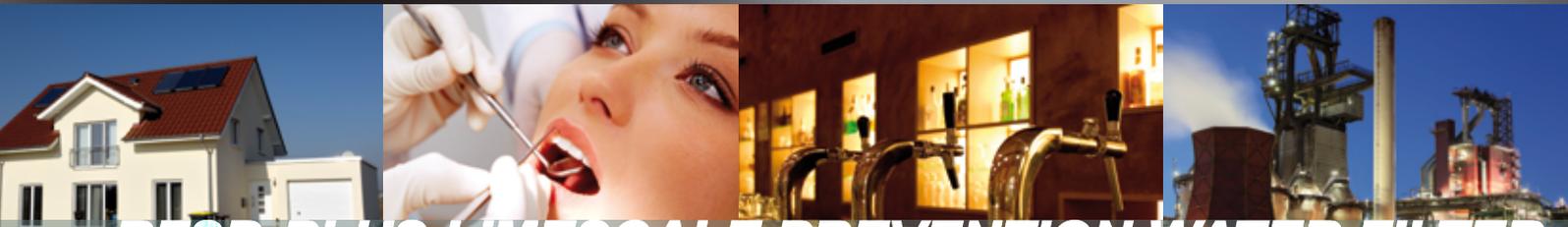
- + effective protection against lime
- + filters and has a microbe reducing effect
- + improves the scent as well as the taste of the water
- + absolute retention rate of 1µ & 20µ

CARTRIDGE
RFSP-PLUS 20"



CARTRIDGE
RFSP-PLUS 10"





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PROCESS/FUNCTIONALITY

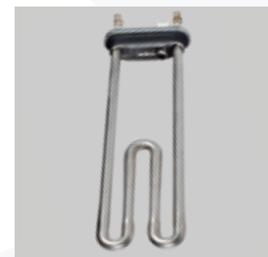
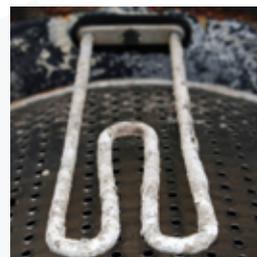
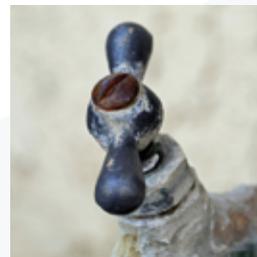
By coming into contact with limescale prevention granulate SP3 (synthetic catalyst material) in the **RFSP-Plus** filter cartridge, the temporary water hardness (dissolved lime) is transformed into micrometre large aragonite crystals. In this process, the dissolved lime $\text{Ca}(\text{HCO}_3)_2$, which exists in water as calcium bicarbonate, is transformed into insoluble calcium carbonate $\text{CaCO}_3 \rightarrow \text{H}_2\text{O} \rightarrow \text{CO}_2$. With this change of structure, the lime no longer has the possibility to build up on surfaces such as tiling, faucets, heating coils or pipes.

By means of the chemically bound carbon dioxide, which is released in this process in microscopically small bubbles, so-called “micro-bubbles”, and the limescale prevention, a further positive feature of the filter arises: The reduction of microbe growth as well as the breakdown of already existing deposits.

The new manufacturing process used on the **RFSP-Plus** filter cartridge offers both effective removal of harmful substances and high-performance filtration. The processed activated carbon in the filter cartridge is selectively coated with approx. 8% highly molecular binding material, pressed into shape and then heated. Due to the smaller proportion of binding material, the highest adsorption power is reached.

MATERIALS

- filter medium activated carbon
- synthetic catalyst material
- end caps PE
- screen PE
- seals Buna N
- operating temperature 2°C - 45°C



TECHNICAL DATA RFSP-PLUS

Length	Filter fineness	Max. flow rate GPH	l/h*	Service life**
10"	1 µ	84 GPH	320 l/h	75 m³
10"	5 µ	290 GPH	2.750 l/h	350 m³
20"	1 µ	169 GPH	640 l/h	150 m³
20"	5 µ	581 GPH	5.500 l/h	700 m³

* Please note: Flow rate performance varies based on the local conditions.
 ** The service time can vary with different qualities of water.
 These performances are based on point-of-use installations.

Attention: Please rinse the filter cartridge with approx. 5 litres of water in order to remove possible traces of fine carbon particles from the water. For drinking water applications, no microbiologically unsafe water or water of unknown quality may be used without disinfection taking place before or after use in the system.

Rebecca Filter® GmbH assumes no responsibility for the correctness of technical data, illustrations and texts. Any liability is excluded.