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[iXA Anti Scale Inhibitor Cartridge](#)



Price: £39.60

Brand: [Direct Water Filters](#)

Product Code: iXA

Availability: In Stock

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iXA Anti Scale water filter? System

A special high-quality food and anti allergenic ion-exchange resin developed which inhibits (prevents) the growth of hard lime scale crystals on heating elements, pipework and fittings.

In addition, the iXA Anti Scale filter reduces the content of heavy metals, chlorine and hydrogen sulphide in the water, preventing clogging of narrow ducts in shower and plumbing systems. Thanks to the special properties of this filter media, in the filtered water the calcium hardness salts Ca^{2+} and magnesium Mg^{2+} lose their property of being "fixed" to the contacting surfaces, thereby preventing the formation of white deposits and hard limescale on the heating elements and prolonging their service life. As a result of using the filter with the iXA Anti Scale media, the scale on the heat exchanger and pipework does not form, the surface is less exposed to corrosive water, which increases the service life of the water heating equipment pipework and sanitary ware, and also reduces gas and electricity costs.

Virtually complete absence of scale on heating elements

Reduction in iron, chlorine, hydrogen sulphide in water

Increase the life of household appliances and water heating equipment

Saving of electricity, Gas and detergents

Delicately removal of pre formed scale deposits

Excellent lifespan and treatable water volume of filter cartridge

Temperature of treated water up to 105c

Effective with the hardness up to 34

Operation principle of the iXA Anti Scale filter.

If no scale is allowed to crystallise (inhibit the growth of crystals), the hard lime scale remains in a dissolved state and does not form solid deposits. It is this principle of operation that is embedded in the filter cartridge. The active ingredient is a food-grade anti-scale reagent, "planted" inside the anion exchange resin according to the developed and patented technology by the scientists of the Research and Design Institute "Water Treatment Technologies" Europe, which prevents the formation of scale on the heating elements of heating and sanitary equipment.

Hard water significantly reduces the life of household equipment (boilers, showers, washing machines, dishwashers) Hard limescale also reduces the effectiveness of soaps and detergents, the appearance of scale on the dishes, scale and scum on tea and coffee, deterioration of the taste of cooked food. iXA Anti Scale filter relieves the hardness of water.

Save money on your Electricity and Gas costs.

The well-known fact that the presence of even a small layer of scale on the walls of heating equipment significantly worsens the heat transfer, leads to a surplus of energy resources. Scientific tests have shown that 1 mm of scale increases the gas or electricity consumption by 10%, and if the layer of deposits grows to 10 mm, then the additional costs are increased by half!

This is due to the fact that the scale significantly reduces the thermal conductivity of the metal. Consequently, the time for heating the water increases (both due to a slowdown in heat transfer at the initial stage, and due to a constant reduction in power in the operating mode). The thermal conductivity of scales is in tens, and often in hundreds, times less than the thermal conductivity of steel, from which heat exchangers are made. Therefore, even the thinnest layer of scale creates a great thermal resistance and can lead to such overheating of the pipes of boilers and heat exchangers, often causing the rupture of pipes. The formation of the scale layer is quite possible even within 6-12 months of operation, depending on the hardness, the amount of water consumed and the temperature of heating. Another danger that lurks behind a layer of salt deposits is that, that the scale is formed unevenly. This leads to the fact that the heater is heated differently in different places, which significantly increases its wear and tear and leads to breakdowns. The solution to this problem is the use of prepared water that will not form scale.

Specifications:

Operating temperature: +3 - +43 ° C

Filter material: food grade ion-exchange resin (anion exchange)

Filter Life: (12 months max)

Recommendations:

After replacing the cartridge, it is necessary to flush it from process dust and particles approx. 10-20 litres

Do not use the filter longer irrespective of the volume of water used, cartridge must be changed at least once every 12 months.

Filter Size	SL10	BB10	BB20	
Service life	70,000 ltr 12 months	175,000 ltr 12 months	262,000 ltr 12 months	
Efficiency	15 (l/min)	30(l/min)	40 (l/min)	

The average water usage per household, of course, depends heavily on the number of people in each household. In the table below you can see what the average annual water usage is depending on the size of a household:

What is the average water usage per household?

People living at home	Average Litres per day	Average annual water usage	Recomm
1	149	54,000	
2	276	101,000	
3	367	134,000	
4	450	164,000	
6	592	216,000	
10	1046	535,000	