

Aqua-Rex is NOT a magnet - read here how it works

Extracts from a report by Professor Peter Dobson and Alexandra Kay, University of Oxford, Dept of Engineering Science, March 2006.

The Aqua-Rex device differs from most available non-chemical water conditioning devices because it applies an electric field to water inside the pipes rather than a magnetic field. The electrodes are fixed to the outside of the water pipes and they comprise two or more coils of insulated wire. They do not provide for any magnetic field production. A rectangular pulsed voltage is applied between the two coils and this induces an electric field inside the water pipe. The electric field will penetrate any normal water pipe.

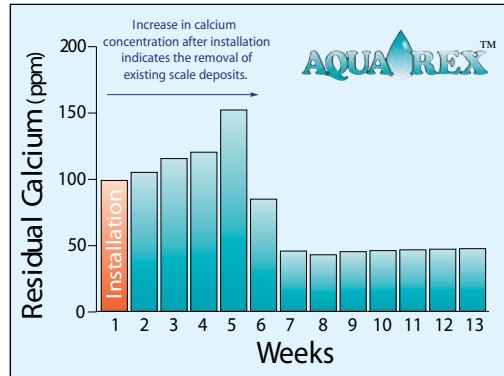
The normal scale that builds up in hard water areas is calcite, often mixed with some magnesium carbonate. Application of Aqua-Rex to a system produces an increase in suspended nanoparticles, which tend to have a higher percentage of aragonite present, and these particles tend to flocculate rather than build scale, and form a fine sludge that is flushed away. There is also evidence that the application of Aqua-Rex to an existing installation brings about a removal of scale. The presence of traces of iron in the water also appears to enhance the effectiveness of Aqua-Rex, probably by enhancing the electrical charge on the suspended nanoparticles.

Softer Water

Unlike other types of water conditioner, Aqua-Rex is proven to produce softer water with less dissolved calcium occurring in hot water. The adjacent table shows week by week how much Aqua-Rex can soften hard water. After the first few weeks, during which the existing scale is removed, the hot water is half as hard as it was without the Aqua-Rex treatment.

Tested by Forensic Experts

Independent tests carried out on an Aqua-Rex installation by TFW Associates, Forensic Engineering Consultants to the Legal Profession, show that at the end of the trial period **the residual calcium concentration as calcium bicarbonate was reduced by approximately 50%** compared with the initial pre-installation value. Additionally, there was a marked reduction in calcium deposition on appliances fed only from the cold water supply.



In the tests a WK1 model was fitted in domestic premises located in a hard water area to treat the hot water system. It was sited on the cold supply pipe between the header tank and the water heater. Water was sampled weekly and double filtered through a 0.45 µm micro-fibre filter. The residual calcium concentration was measured using a Z8100 Hitachi Absorption Photometer.

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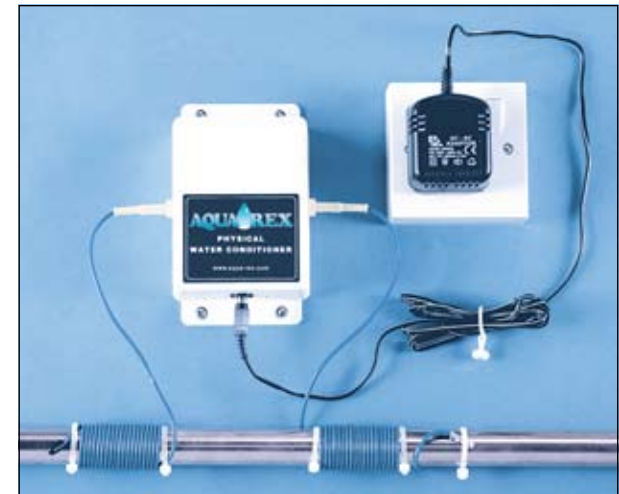
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'NO SALT SOFTENER' WITH OVER 250,000 INSTALLATIONS WORLDWIDE

THE AQUA-REX WK1 WILL TREAT ALL THE HARD WATER IN YOUR HOME.



GOOD FOR TANKLESS & TANK WATER HEATERS, SWIMMING POOLS, COOLING TOWERS, MISTERS

AQUA-REX - THE PROVEN TECHNOLOGY YOU CAN TRUST

What does Aqua-Rex do?

Prevents scale forming in Heaters

Cleans out existing scale

Partially softens hot water

Which means that:-

You save energy by more efficient water heating

Showers run stronger and cleaner

Soap and shampoo lather better

Reduces tub and shower scum

No chemicals added to drinking water

No saline waste water

No loss of water pressure

No backwashing water softener

No servicing, salt or chemicals required

Retains healthy minerals

Easy 20 minute install

No pipes to cut



AQUA-REX IN THE HOME – FAQ’S

Where do I install it and can I do it myself?

Aqua-Rex is so simple to install. Just wrap the wires around the inlet to the water heater or the softener loop and plug the transformer into an outlet. You don't need to cut any pipes or do any other kind of plumbing. Just check that the light is flashing and you can leave it to work all year long for about \$20 in electricity. Just Fit it and Forget it!

Does it treat all the water in the home?

Aqua-Rex sends a signal into the water heater even when no water is flowing and it also sends a signal back into the cold supply in the rest of the home so mixing valves, showerheads and kitchen faucets won't get scaled up either.

How does it compare with a water softener?

Aqua-Rex doesn't use salt or chemicals, it doesn't produce any environmentally unfriendly discharges. It costs hardly anything to run, and it doesn't add any salt or unpleasant taste to the water.

Is it as good as a water softener?

It won't soften water the same as a water softener but it can partially soften hot water and it reduces scaling and can get rid of old scale from a system. You can use less soap and detergents.

Is it easy to install?

You can wrap the Aqua-Rex wires on any type of pipe, plastic or metal, even the corrugated flexible inlet pipe to the water heater.

Will it do what I want?

Only you can decide that. Try it and see! We give you a no hassle money back guarantee so you have nothing to lose except your limescale!

What else can Aqua-Rex do?

Swimming Pools:- Aqua-Rex is great for clearing the scale from around the water line. It helps keep the filter and heater scale free and helps biocides act on bacteria so the pool is cleaner and clearer. The WK1P is fully waterproof and will fit on 2" plastic lines.

Misters:- No need for softening and RO. Just a paper filter and an Aqua-Rex will keep misters running clean. You need to install a WK 1 on each pressure line after the pump.

What about the Dishwasher?

The pump in the dishwasher reduces the effectiveness of Aqua-Rex so you need to check you are using a good hard water detergent and especially a hard water rinse aid which is available from most stores. Washing machines work well with Aqua-Rex.

Can Aqua-Rex treat anything bigger than a home?

The WK1 will treat all pipes up to 1¼". Aqua-Rex units are available for all pipe sizes and are installed on hotels, condos, industrial plants and cooling towers. They are used in schools, colleges and military bases.

Find out more from the Specifiers Guide on our website www.aqua-rex.com. You can also read published articles and scientific research papers.

BRITISH MARKET LEADER NOW AVAILABLE IN USA

Aqua-Rex is sold under the brand name 'Water-King' in the rest of the world and the parent company, Lifescience Products Ltd, has undertaken extensive research in the laboratory and in the field, much of which is published on its website.