

AN EXCEPTIONAL SOLUTION TO LIMESCALE PROBLEMS

SOLOWAN



Aqua Unique

Aqua Unique®

The experts in watertreatment

Aqua Unique has specialized in environmentally friendly technology in the area of drinking and household water systems.

For the physical treatment of calcareous drinking water, the SOLVIN® sytem offers a technically exceptional solution.

This technique, which uses permanent magnets is based on more than 40 years of experience, research and development.

In 1988 SOLVIN® was awarded a Gold Medal at the EUREKA-Exhibition in Brussels for invention, research and breakthrough in water treatment.



SOLVIN® - awarded a Gold Medal at EUREKA - The World Exhibition for Inventions, Research and Industrial News.

Our product development and our positive experiences in more than 30 countries gives you a guarantee that your limescale problems can now be effectively cured with SOLVIN®.



Water is the source of life

Drinking water contains different amounts of dissolved salts and minerals.

These so-called hard salts are indispensable to our metabolism and health in general. They should not be removed, when attempting to solve limescale problems.



Water carries all possible vital and natural mineral salts.

Today's solutions to a growing problem

Technological advances and developments within our lives and households create increasing problems with limescale in our water systems.

With SOLVIN® an optimum solution can be offered at reasonable cost without damaging our environment or removing those vital mineral salts we require from water.



Every year £millions are spent to cure the problems with hard water.

Everyday Irritations

All over the world, wherever hard water is found, an obstinate fight against limescale problems is conducted.

Shower heads spray water in all possible directions, and coffee makers brew coffee with increasing difficulty.

Those vital minerals which are so important to our health create a limescale coating in kitchens and in bathrooms.

On tiles, floors, washbasins, baths, fittings and in shower cabinets a coat of limescale as hard as marble is created.

This can only be removed by hard scrubbing or with tough cleaning liquids.

On top of that another irritation arises, when water pressure decreases because of hidden limescale build-up in pipes.

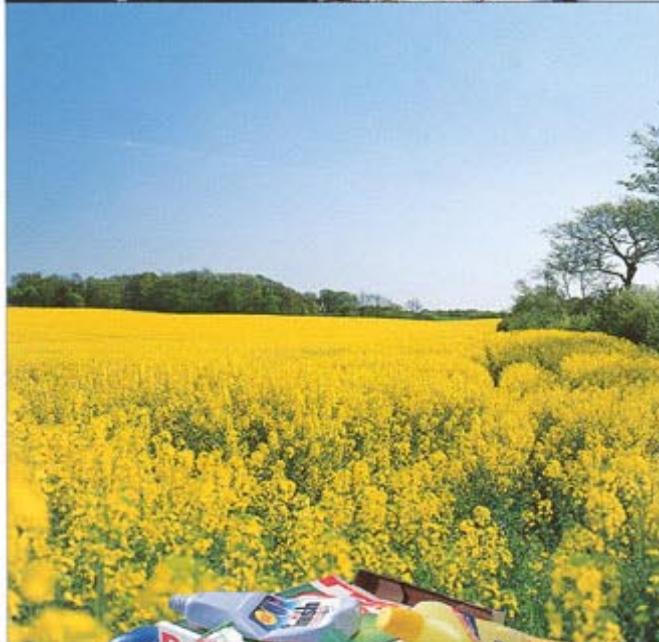
It can cost you deadly

In pipework, pumps and valves, limescale slowly builds up. A hard marblelike coating of limescale is created in hot water tanks, convectors and heating elements.

This leads to an ever growing consumption of energy. As the limescale coating grows an increased amount of washing powder is needed, which puts a strain on your purse as well as our environment.

Washing machines, hot water tanks and dishwashers need to be renovated or replaced, pipe installations need to be cleaned with damaging acid or simply replaced.

These are some of the less pleasant surprises, which no one gives a thought to, but which take a considerable amount of money out of any household budget.



We know the problem

When untreated water evaporates or when changes are made to its pressure or temperature, the limescale present will precipitate into hard calcit crystals. These crystals need a surface on which to grow.

Normally these are surfaces such as pipe walls, taps, heated areas and surfaces - all those places where limescale is known to exist (**fig 1**). It is this build-up that is often the primary cause for corrosion, reduced heating output and capacity, and reduced flow.

Micro-particles, which exist in water, would be the ideal alternative 'host', but they are sur-rouned by water molecules (**Fig 1 shown as blue, surrounding the green micro-particles**). Therefore the calcium crystals cannot gain access to them.

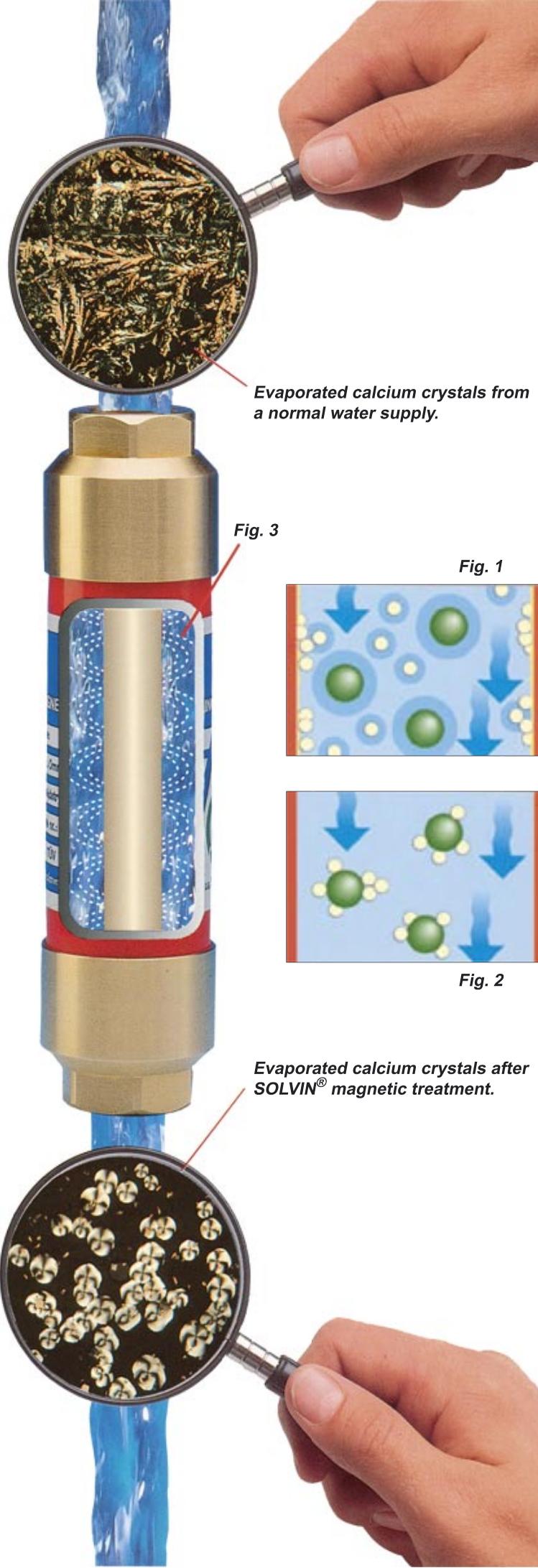
Only a few know the solution

Because of the specially aligned polarity of the sealed magnets (**fig 3**), water passing through a SOLVIN[®] unit becomes transformed, releasing the previously surrounded micro-particle. This micro-particle now becomes the ideal 'host' for the loose calcium crystals, allowing them to adhere to it rather than to rough or heated surfaces. The new micro-crystals will now prevent the build-up of calcium upon calcium (**fig 2 and magnifying-glass on the bottom of the page**) - the primary cause of limescale build-up.

These 'host' micro-crystals will now circulate within the pipework system ensuring free calcium particles adhere to them and no longer join up with each other. They will also assist existing limescale deposits to become porous, break up into minute fragments and float out in the water in suspension.

Now, dried out limescale spots on tiles and washbasins will only consist of unstable crystals and can be easily removed with a sponge or nail brush. And there is no longer a need to use harsh cleaning liquids or chemicals.

So the life of pipework, hot water tanks, washing machines etc is significantly extended.



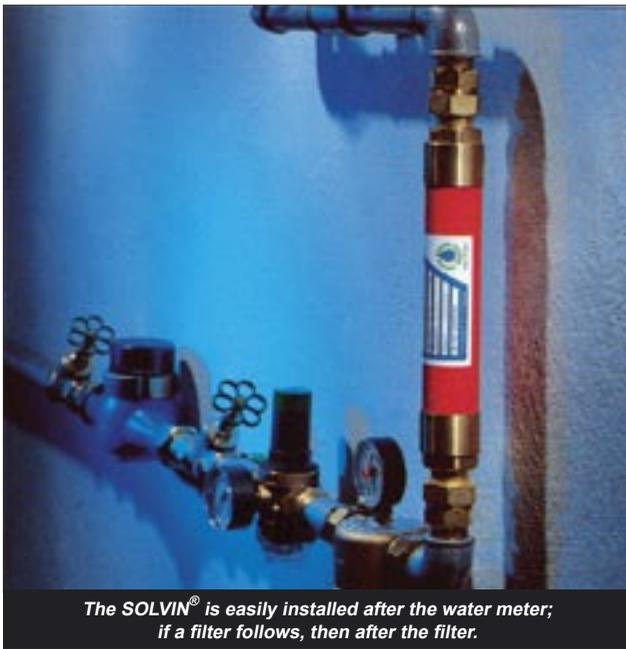
Evaporated calcium crystals from a normal water supply.

Fig. 3

Fig. 1

Fig. 2

Evaporated calcium crystals after SOLVIN[®] magnetic treatment.



The SOLVIN® is easily installed after the water meter; if a filter follows, then after the filter.

Correct installation will guarantee you a good result

We can offer individual advice and planning. In doing so, the optimum unit for the size and type of your installation will be quoted and at the same time offering you the best solution. This free of charge customer service ensures the right choice of product, preventing a wrong investment. By looking at the present problem, you will be convinced that having a SOLVIN® built in to your system will pay off. When the right device has been installed in your home, your limescale problems will suddenly belong to the past. And on top of that:

- No pressure loss
- No ion exchange unit
- No phosphates needed
- No power
- No sacrificial anode
- No maintenance

And remember we use the most powerful magnets available today.



Simply forget your limescale problems!

GUARANTEE ... Quality is our motto

Aqua Unique gives a 10 years guarantee on the magnetic function and material mistakes on every SOLVIN® unit. On the top of that Aqua Unique offers a 12 month buy-back guarantee, assuming the SOLVIN® unit has performed satisfactorily performance.

SOLVIN® is type approved by both Danish and foreign authorities.

VA-approved by the Construction Administration, following tests made by the Danish Institute of Technology confirming the product is suitable for use in drinking water installations.

TÜV-approved in Austria carried out by the corresponding authorities.

The efficiency of SOLVIN® has been proved and confirmed by installation in more than 100 waterworks.



Approved by TÜV in Essen, Germany.



VA approved by the Danish Institute of Technology

Through the years we have successfully sold to many areas, for instance:

- The Food Industry**
- Cooperative Housing Societies**
- Hospitals**
- Shipyards Industry**
- Power Stations**
- The Chemical Industry**
- Vessels**
- Hotels**

SOLVIN® - the standard program spans from ½" up to 14", and treats water from 0,1 to 20.000 litres per minute.

If required systems up to 20" can be produced. The range can also be produced in stainless steel.