



The Electronic Anti-Scale System Condominiums and Large Buildings



German Technology
Absolutely Magnetism-Free

No Salt
No Chemicals
No Maintenance





The alternative to water softeners

Managing a large building demands constant observation of all technical equipment, sanitary stations, outdoor areas, etc. Vulcan helps to improve manageability, sustainability and profitability in many areas.

Vulcan ensures all appliances which come in contact with water will obtain their maximum life expectancy as well as significantly reducing their maintenance requirements.



- ▶ Machinery and equipment perform more reliably: cooling towers, heating systems, etc.
- ▶ Reduces and prevents scale deposits throughout the entire piping system
- ▶ Less time and effort on maintenance in building and facilities
- ▶ Faster cleaning of kitchens and bathrooms
- ▶ Filters, shower heads and basins stay cleaner
- ▶ Considerable savings on cleaning agents
- ▶ Cleaner sprinkler nozzles for garden irrigation
- ▶ Food and beverages keep their natural taste



Piping system in an apartment building

The solution to scale and rust

Vulcan gently reduces already existing deposits in the piping system. The scale build-up process is reversed and the pipes gradually become clean again. This take-out process will not block up your pipes or drain because the treated crystals are microscopic in size and wash away in the water.

- ▶ Prevents scaling in pipes and appliances
- ▶ Gently sanitizes the piping system
- ▶ Protects against rust damage and perforation

REPORT OF USING VULCAN

Vulcan 2 Apartment Buildings
in Etagnières, Switzerland



Installation of 2 x Vulcan S25

Installation Place: Cold water main pipe
Pipe diameter: 50 mm



Results before and after the Vulcan installation

Kitchen Kettle

Before without Vulcan: A layer of scale had accumulated at the bottom over 10th. It was impossible to remove it with a plastic spatula. We could only leave vinegar to let it act for a long time, so that the scale could be removed.

After with Vulcan: Scale is easy to be removed, even with a finger or a damp cloth.

External surfaces of pots and pans

Before: If you do not wipe off water right away, the water would leave spots and it would be difficult to remove afterwards. You can only clean with dishwashing detergent again, and wipe off water without delay.

After: Even the pot has been dry for 30 minutes, it is still easy to remove spots with a damp cloth. If it is left to dry for a longer period, e.g. 1 night, the spots disappear after rubbing the surface for several times with increased pressure but still without detergent.

Conclusions

After Vulcan was installed for 1 week, in general, we quickly noticed a marked decrease of adhesive forces of the water on most surfaces in contact with water over a prolonged period. The comfort provided by this innovative converter is very appreciable compared to the previous situation.

Another advantage of this system, and not the least, is its excellent efficiency / price ratio. There will be no additional charges thereafter and its consumption of electricity is insignificant. It is more appreciable while the loads of the building always tend to increase.

Our wish was to find a solution to the problem, not by totally eliminating the scale, but by finding a way to convert its physical structure so that it can improve the cleaning effort and protect the devices without the addition of chemical substances.

We have no particular interest (financial or otherwise) in promoting this system and we also needed evidence of its effectiveness, which we have received from these tests.

This device is an excellent compromise for solving the problems in our building caused by the hard water.

We firmly believe that this is the most advantageous system and strongly wish to keep it.

Maintenance is simple because no maintenance is required after the unit is installed. There is no dependence on products to be added and which must be managed throughout the year. The composition of the water remains unchanged, which is a strong positive point for health.

Observations after Vulcan disconnected

It was needed to make the first observations:

1. The water: the water appears heavy and oily again.

2. The skin (shower):

3. The scale sticks again on the kitchen tap fittings.

4. The scale is deposited again on the granite and it is difficult to

After 4 years of building pipe expansion, it took only one week to make initial observations of the efficiency of the VULCAN descaler.

But the time to reappear of scale deposits or water effects on the skin after the system was shut down was twice as long.

5. The scale is deposited back to the bottom of the kettle and can not be removed with a hand or a damp cloth.

6. The scale is deposited on the dishwasher tank are again covered

7. The scale in the bathroom sinks has begun to occur again (the scale is ceramic).

Easy Do-It-Yourself installation

Vulcan is a Do-It-Yourself product and easily installed within a few minutes, without the need to cut pipes. You also will not require any tools.

Vulcan should be placed at the main water supply – this is usually close to the water meter.



Vulcan-Impulse-Technology

The Vulcan-Impulse-Technology treats the water with special electronic impulses that take away the adhesive power of the scale particles. Scale components are simply washed away with the water as a fine powder. Vulcan also reduces already existing deposits. The build-up process is reversed. In addition, the electronic Vulcan impulses generate a metal-carbonate protective layer that prevents pitting corrosion.



Large residential complex



Prevents Scale and Rust

- ✓ Reduction of existing scale in the piping system
- ✓ Installation without cutting the pipe
- ✓ From ½" up to 40" pipe diameter
- ✓ Works on all pipe materials – iron, copper, plastic, stainless steel, PVC, compound pipes, PE-X, etc.
- ✓ 100% maintenance-free
- ✓ Eco-friendly solution without salt or chemicals
- ✓ Prolongs life of machinery and equipment
- ✓ Important minerals remain in the water
- ✓ Long life – fully cast in acrylic
- ✓ 25 year international warranty

Visible results of Vulcan water treatment - before and after



Piping system



Heating element in a hot water tank



Toilet bowl

Requirements

The iron/metal content should best not exceed 1 ppm and manganese should be below 0.1 ppm.

Vulcan works best with heating element surface temperatures of max. 203°F (95°C). Higher levels or temperatures might hinder the treatment strength in some cases.

Application examples

- ▶ Apartment houses
- ▶ Condominiums
- ▶ Dormitories
- ▶ Hospitals
- ▶ Retirement homes
- ▶ Nursing homes
- ▶ Large living buildings
- ▶ etc.

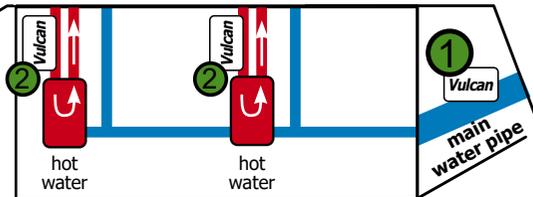
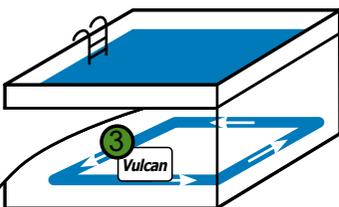
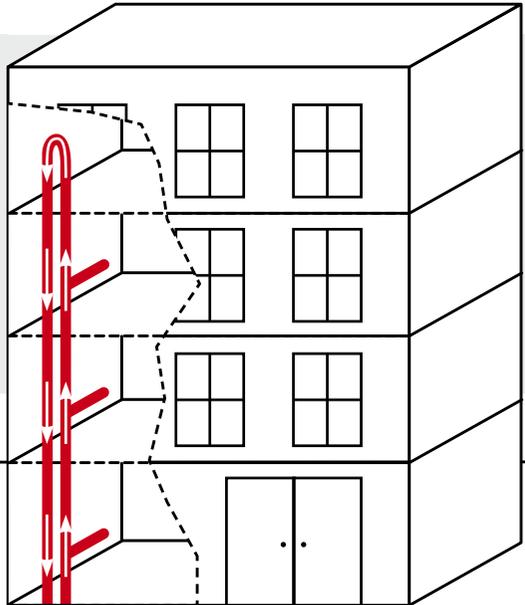


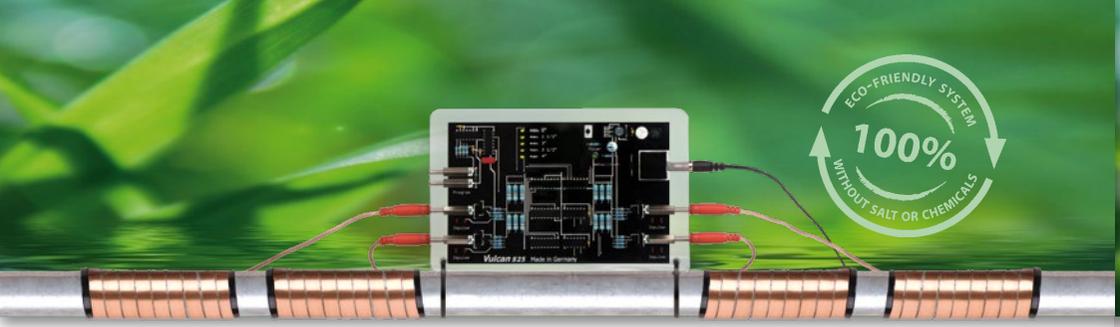
How to install Vulcan in condominiums and large buildings

In larger buildings there are always different areas to consider.
Below is an example of a typical Vulcan installation in a large building.

Installation areas are often the main building cold water supply (1), one or several hot water circulations (2) for the higher floor levels, pool operations (3), etc. **Each water circulation needs an own Vulcan.**

- ① Main water pipe
- ② Hot water circulation(s)
(install Vulcan on the return pipe, before the heat exchanger on **each** hot water circulation)
- ③ Pool water circulation
(install Vulcan after the sand filter)





How to choose the right Vulcan size for condominiums and large buildings

For buildings with peak times of high water capacities, you have to choose the following Vulcan size. To choose the right Vulcan model, check the pipe diameter at the main water pipe.

Pipe Diameter	Model
max. 2"	Vulcan S10
2½" - 3"	Vulcan S25
3½" - 4"	Vulcan S50
4½" - 5"	Vulcan S100
5½" - 6"	Vulcan S150
7" - 8"	Vulcan S250
9" - 10"	Vulcan S350
11" - 16"	Vulcan S500

Quality — Made in Germany

- ▶ Manufactured by Christiani Wassertechnik GmbH (CWT) in Germany
- ▶ Over 40 years of experience in physical water treatment
- ▶ Successful in more than 70 countries worldwide
- ▶ 25 years international warranty

