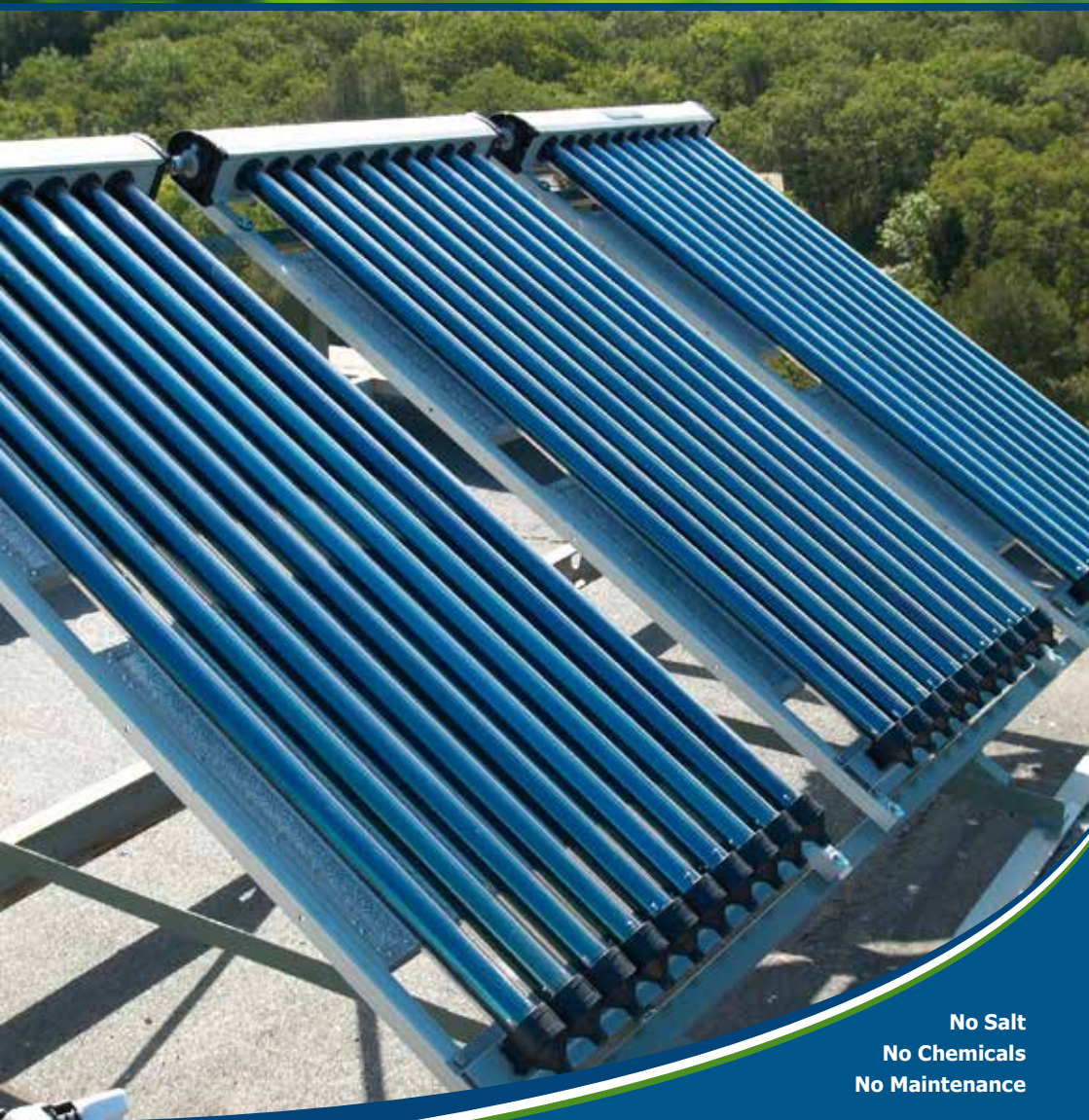




# The Electronic Anti-Scale System Solar and Heating



No Salt  
No Chemicals  
No Maintenance

German Technology  
Absolutely Magnetism-Free





## Vulcan – The eco-friendly solution

Using solar powered water heaters are a smart green alternative to traditional heating methods. They utilize sustainable resources, help the environment and save money. In order to ensure the effective performance of these eco-friendly heating systems, engineers recommend the use of an anti-scale product.



### Benefits of using Vulcan

- ▶ Cleaner heat exchangers and distributor pipes
- ▶ Reduces scale build-up in collectors
- ▶ Protects hot water tanks and vacuum tubes
- ▶ Protects the system from over-heating
- ▶ pH levels remain unchanged, preventing corrosion
- ▶ Reduces malfunctioning of valves in primary circuits
- ▶ Fewer maintenance visits required for your equipment



Solar heating panels of an apartment house

### The chemical-free system

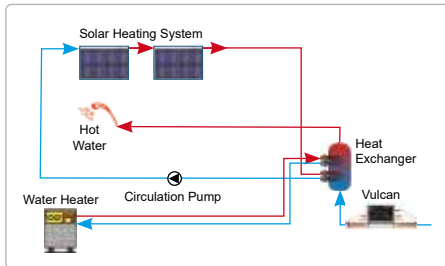
Reduces scale build-up in collectors and protects the system from over-heating. Vulcan treats water with special electronic impulses that affect the adhesive properties of scale.

This is 100% eco-friendly and works without any chemicals or salt. Scale is simply washed away with the water as a fine powder.

# Installation examples

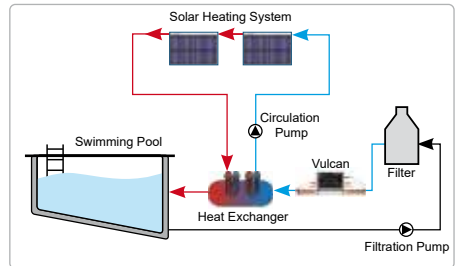
## 1. Installation recommendations

For best results, Vulcan should be placed on the cold water inlet to the heat exchanger.



## 2. Solar pool heating and filtration system

For optimal results, Vulcan should be placed between the filter and the heat exchanger.



## Application examples

- ▶ Private homes
- ▶ Green buildings
- ▶ Factories and farms
- ▶ Apartment buildings
- ▶ Hotels and resorts
- ▶ Swimming pools
- ▶ Sports complexes



Hard water naturally forms scale when there is an increase in temperature or change of pressure. This leaves deposits on the tubes, the heat exchangers, the collectors or tanks. The scale prevents heat from transferring efficiently, therefore the working capacity of your machinery is minimized, increasing your back-up energy bill.

Vulcan reduces scaling and effectively dissolves existing deposits in solar water heating systems.





## Prevents Scale and Rust

- ✓ Reduction of existing scale in the piping system
- ✓ Installation without cutting the pipe
- ✓ From 1/2" 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
- ✓ 10 year international warranty

## Visible results of Vulcan water treatment – before and after



Swimming pool filter



Heating element



Piping system



## 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
- ▶ 10 years international warranty

