

The logo for Vulcan, featuring the word "Vulcan" in a white, italicized serif font inside a dark blue square with a white underline.

# The Electronic Anti-Scale System

## Cooling Tower Treatment



No Salt  
No Chemicals  
No Maintenance

German Technology  
Absolutely Magnetism-Free





## Vulcan - the chemical-free solution

Scale deposits reduce the effectiveness and increase the operating costs of cooling towers. Using expensive chemicals such as chlorine, phosphates and acids is the traditional way to eliminate the scale problem. The Vulcan water treatment system is the eco-friendly and chemical-free alternative.



### Improving cooling tower operation by:

- ▶ Removing existing scale deposits
- ▶ Maximizing tower cycles
- ▶ Reducing water consumption and wastage
- ▶ Dramatically reducing chemical usage
- ▶ Reducing bacteria and biofilm
- ▶ Reducing maintenance, repairs and replacements

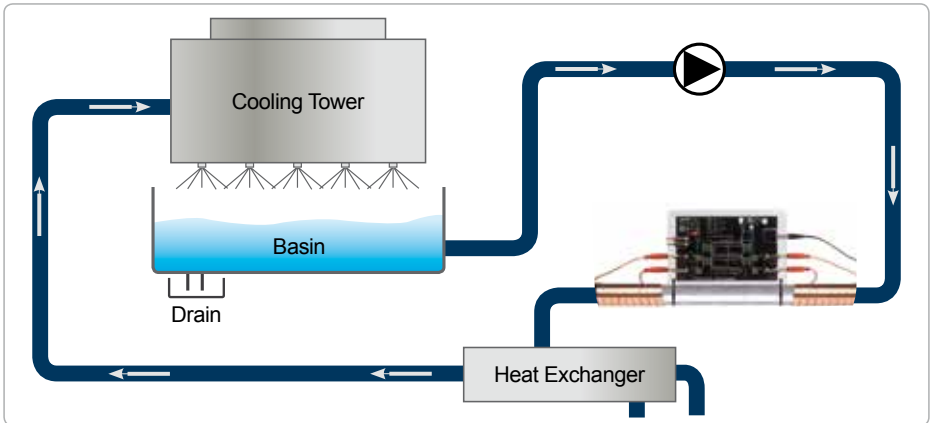


Cooling tower

### Saving money with Vulcan

By efficiently operating your cooling tower, you can realize substantial savings in office buildings, manufacturing plants, schools, hospitals, etc.

With the Vulcan treatment cooling tower efficiency increases due to longer tower cycles, reduced energy consumption and less need for chemicals and water.



Open loop example

## Open circuit cooling towers

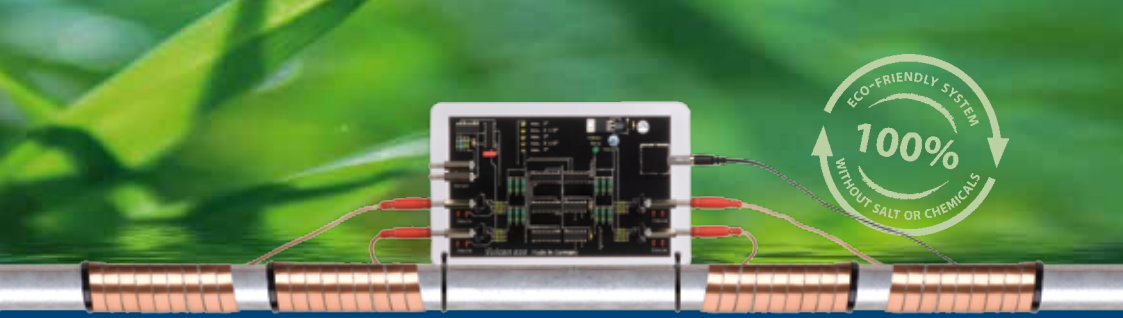
Vulcan should be installed just before the heat exchanger. Installation is simple and no pipe cutting is needed. Please ensure to regularly drain the circuit at the bottom of the basin or use a centrifugal filter to take away remaining solids from the cooling tower water.



## Case study

"After installing the Vulcan unit, we were able to stop all chemical based cooling tower treatment. After approximately six months, almost no scale build up was observed.

Small amounts of scale that were found on the cooling tower are easily removed with the wipe of a finger. With these results, we can confirm the effectiveness of the Vulcan"



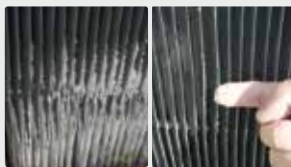
## **Vulcan** Against Scale and Rust

- ✓ Reduction of existing scale in the piping system
- ✓ Installation without cutting the pipe
- ✓ From ½" up to 20" 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



Piping system



Cooling tower grids



### Quality - Made in Germany

- ▶ Manufactured by Christiani Wassertechnik GmbH (CWT) in Germany
- ▶ Over 30 years of experience in physical water treatment
- ▶ Successful in more than 50 countries worldwide
- ▶ 10 years international warranty

