



Against Scale and Rust

Water Treatment Industrial Applications

Vulcan **eco-friendly** water treatment products are the salt-free alternative to traditional water softeners in industrial applications



The Vulcan-Impulse-Technology treats the water with special electronic impulses that take away the adhesive power of the scale. Scale is simply washed away with the water as a fine powder. Vulcan provides solutions for all types of scale-related problems in many industrial applications.

Benefits of Vulcan

- ▶ Maximized life of production equipment
- ▶ Lengthens maintenance intervals
- ▶ Increase in overall productivity
- ▶ More efficient use of energy consumption
- ▶ Reduction of chemical and salt costs
- ▶ An easier and less-frequent cleaning process
- ▶ No production loss during installation
- ▶ A fast pay-back of acquisition costs

Application Examples

- ▶ Cooling Towers
- ▶ Heat Exchangers
- ▶ Chillers
- ▶ Refrigeration Systems
- ▶ Vacuum Pumps and Valves
- ▶ Grinders and Mixers
- ▶ Condensers
- ▶ Industrial Ovens and Presses
- ▶ Food Processing



Cooling towers often suffer from scale build-up caused by the vaporization and cycling of water. Scale cannot evaporate, so when a new cycle of water is introduced, the scale builds up more and more. This type of hard compounded scale is expensive to remove so frequently.

Vulcan reduces the amount of scale deposits and reduces the amount of required maintenance. It offers you a permanent solution without on-going costs, repairs or replacements.

Quality - Made in Germany



- ▶ Manufactured by Christiani Wassertechnik GmbH (CWT) Berlin
- ▶ Over 30 years experience in physical water treatment
- ▶ More than 150,000 satisfied customers world-wide
- ▶ Available in more than 40 countries



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Client List

- ▶ Alcatel phones
- ▶ Haecker gelatine production
- ▶ Eberswalder sausage production
- ▶ Daimler Chrysler
- ▶ Dynamit Nobel
- ▶ Hyatt Hotels
- ▶ Beutelsbacher juice factory
- ▶ Rhein chemistry
- ▶ Freixenet sparkling wine
- ▶ Südmilch dairy farming
- ▶ University Munich
- ▶ Viessmann
- ▶ Volkswagen

Case Study from a Cooling Tower in Japan



“ ... Verification of the effectiveness:

After installation of the Vulcans, the status of the cooling towers was inspected without using any water treatment chemicals. Even after approximately six months, almost no scale buildup was observed inside the refrigerators and the heat exchanger tubes, and no water pollution warning was displayed. (Usually, without water treatment chemicals, the water quality deteriorates and a water pollution warning is displayed.) Silica which was adhered on the cooling towers was easily removed with the wipe of a finger. With these results, the effectiveness of the Vulcan installation could be confirmed. ...”

Vulcan - Against Scale and Rust

Vulcan is the eco-friendly water treatment system which protects your pipes and equipment against scale and rust.

- ▶ Eco-friendly solution without chemicals or salt
- ▶ Reduction of existing scale in the piping system
- ▶ Maximum working life of machinery and equipment
- ▶ Important minerals remain in the water
- ▶ Long life – fully cast in acrylic
- ▶ Maintenance-free
- ▶ 10 year international warranty

- ▶ Easy installation without cutting the pipe
- ▶ From 1/2" up to 20" pipe diameter
- ▶ Works on all pipe materials – iron, copper, plastic, stainless steel, PVC, compound pipes, PE-X, etc.



Vulcan S25



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