



Against Scale and Rust

# Physical Water Treatment Swimming Pools and Spas

## Vulcan is your **eco-friendly** electronic anti-scale system that treats hard water without the use of salt or chemicals

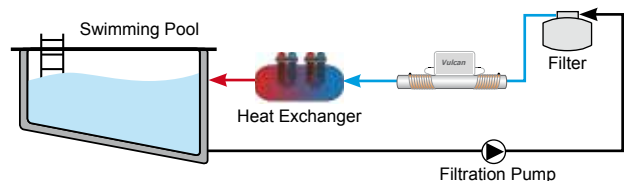


Swimming pools are complex systems to operate and demand high cleaning effort and complicated water treatment procedures in order to comply to regulations. Their pumping and filtration systems are very sensitive to scaling. Cleaning consumes a tremendous amounts of time and money on a daily basis.

- ▶ Reduction of scale deposits in the whole piping system
- ▶ Longer life and improved performance of filters and pumps
- ▶ Extensive reduction of cleaning effort
- ▶ Savings in cleaning agents
- ▶ Heat exchangers operate more efficiently
- ▶ Reduction of chemicals that control bacteria and the pH-levels
- ▶ Reduction of biofilm

### Vulcan significantly reduces scaling in and around the swimming pool, in the whole piping system and in the filters and pumps.

Swimming pools are half-open loop systems which suffer constant water loss as the pool water evaporates. Even low water hardness levels lead to harmful scale deposits that constantly need to be cleaned. Vulcan reduces the cleaning effort for the pool itself, the water line, for tiles, grids, floors and walls. Showers, shower-heads, faucets and toilets are also much easier to be maintained.



**Installation recommendations:** As ideal setting, Vulcan should best be installed *before* the heat exchanger. If possible, the placement should also be *after* the filters (sand filter, active carbon filter, etc).

## 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 50 countries



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Pool water demands constant maintenance and several chemicals need to be added to keep bacteria, algae, and air quality in compliance with standards. Vulcan significantly improves the water quality and with this the effectiveness of certain substances.

**Pool cleaning agents** are used to fight the scaling on the waterline, in grids, on tiles, or the pool's surrounding surfaces. Vulcan minimizes scaling which results in a much easier cleaning process together with a the reduction of cleaning agents and chemicals by up to 50%.

The **disinfection** of pool water is mostly secured by adding chlorine (Cl). Products range from granules to liquids, tabs or sticks. The addition of chlorine can often be reduced by up to 10-25 percent. An alternative product is active oxygen. Please cut back step by step by starting with a reduction of 10 percent.



**pH adjustor** products either reduce or raise the pH-level and control the total alkalinity in pool water. They are added in order to rebalance the pH which has been disturbed by the addition of chlorine or oxygen. In line with this, the use of adjustor products can be reduced in the same ratio to which the disinfectant product has been reduced. For example, if you reduce chlorine by 15% you can also reduce the pH-adjustor by 15%.

## 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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