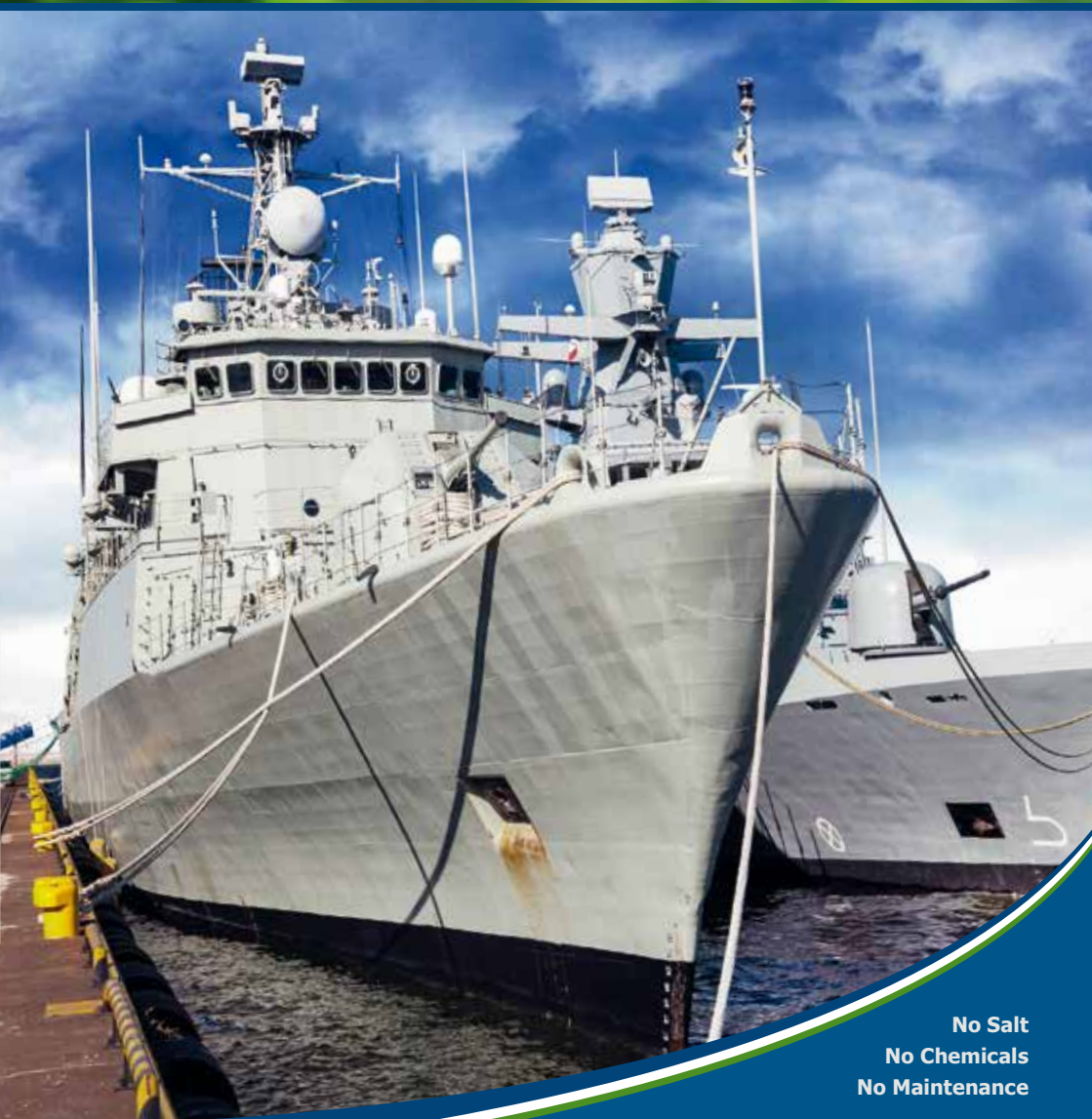


Vulcan

The Electronic Anti-Scale System Naval ships



No Salt
No Chemicals
No Maintenance

German Technology
Absolutely Magnetism-Free



Vulcan - The alternative to water softeners



A naval ships carries a lot of machinery and equipment, which come in contact with water. Scale deposits in the piping system can cause fatal damage to engines and turbines, which are very expensive to repair. In the daily use of water on board (in bathrooms, kitchens, etc.) Vulcan helps to eliminate problems caused by scale.



Benefits of Vulcan:

- ▶ Reducing scale deposits in the whole piping system
- ▶ Minimizing overall operating costs and maintenance expenses
- ▶ Maximizing life of on board equipment
- ▶ Eliminating the need for salt or aggressive cleaning agents
- ▶ Leaving pH levels unchanged - preventing corrosion
- ▶ Removing the need for salt or aggressive chemicals
- ▶ Reducing hot water energy consumption



Aircraft carrier (top)

Military submarine (bottom)

Engines: Vulcan controls limescale deposits in the water cooled jackets, in transfer lines or coolers. Vulcan treats scale build-up in the heat exchangers and in the heat chambers in engines.

Ballast tanks: Ballast water is handled easier and scale deposits are reduced.

Wastewater: Vulcan smooths the incrustations in all wastewater transport systems.

Potable water: Vulcan controls scale deposits in the desalination and works with distillation or reverse osmosis equipment.



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 carefully dissolves already existing deposits. In addition, Vulcan generates a protective layer that prevents rust and pitting corrosion.



Professional kitchen on board of a military ship

Vulcan has positive effects in these applications:

- | | |
|------------------|---------------------|
| Piping systems | Potable water |
| Pumps | Steam turbines |
| Valves | Wastewater |
| Condensers | Ballast tanks |
| Heat exchangers | Restaurants |
| Air conditioners | Kitchens |
| Cooling towers | Sporting facilities |
| Chillers | Ship hospitals |
| Tanker equipment | Bathrooms |
| Engines | Heating systems |



Against Scale and Rust

- ✓ Reduction of existing scale in the piping system
- ✓ Easy 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



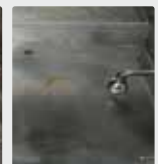
Piping system



Grease trap



Grill plate in a kitchen



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 70 countries worldwide
- ▶ 10 years international warranty

