

The logo for Vulcan, featuring the word "Vulcan" in a white, italicized serif font on a dark blue rectangular background.

The Electronic Anti-Scale System

Snow production



No Salt
No Chemicals
No Maintenance

German Technology
Absolutely Magnetism-Free





Vulcan – the eco-friendly solution

The quality and quantity of snow in snow production is largely affected by the water quality. The Vulcan-Impulse-Technology changes the typical crystal structure of scale – from a chaotic clutter into a well aligned mono-crystal. The water droplets are finer, which allows you to produce more snow with a better snow crystal structure that will last longer.



Improvement of your snow production

- ▶ Smaller and dryer crystals have a lower temperature of approx. 2.5°C (4.5°F)
- ▶ Finer snow crystals with a decrease of diameter (-20%) and volume (-45%)
- ▶ Vulcan prevents scaling up of the cannon's spray nozzles
- ▶ Maximized production output with less water loss
- ▶ The finer water droplets freeze earlier
- ▶ Snow is dryer as it contains less unfrozen water



Better water characteristics for snowmaking

- ▶ Vulcan produces mono-crystal nucleuses in the water that form organized, more stable ice and snow crystals.
- ▶ Soft-water-characteristics result in finer mist and pulverization with finer droplets.
- ▶ Vulcan prevents scale buildup in the pipe and the nozzles.

What do you see on the slope?

- ▶ Snow production is already possible with a higher temperature
- ▶ Drier snow for a better skiing comfort
- ▶ Less icing with a more compact slope
- ▶ The finer crystals reflect more sunrays and therefore last longer in sunlight
- ▶ Rain water penetration is minimized
- ▶ Warm-air infiltration is minimized



The Vulcan full acrylic cast

The acrylic cast ensures that the circuit board is protected. Therefore the parts can not move and are fixed in place. This guarantees a high life expectancy. It is suitable to operate in very low temperatures. The operating temperature of Vulcan ranges from -25°C to $+50^{\circ}\text{C}$ (-13°F to 122°F).



Vulcan-Impulse-Technology

The Vulcan-Impulse-Technology is based on the principle of physical water treatment. Special electronic impulses change the crystallization of the water elements.

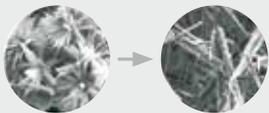
This minimizes the adhesiveness of the scale particles and at the same time produces mono-crystals that are ideal cores for snow crystal formation.



Vulcan Prevents Scale and Rust

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

The 3 Vulcan Effects



1 Prevents scaling on surfaces



2 Cleans the piping system



3 Protects against scale and corrosion

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

