

BIOMIMETIC WATER TREATMENT **SOLUTIONS** FOR **INDUSTRIAL APPLICATIONS**





Carbon footprint reduction



PATENDED SOLUTION

CERTIFICATIONS & RECOGNITION

- Southern California Edison (SCE) validated
- EU Commission Horizon 2020 validated
- Swedac Certified
- Electric Power Research Institute (EPRI)
- Accreditation DAkkS potable water tests
- Food and Drug Administration food usage
- · IVG Cooling Tower Approved for Utility Incentives in USA
- · Certificat BioCompatibility test Following EC/ ISO 10993
- · Recognition Ministry of Water Holland
- 2020 : DVGW W270 certification approved for its compliance with the PA2200 test
- "Energy Innovator Award 2019" for the most virtuous supplier in the field of cooling towers in Western Europe
- REALice referenced Utility Incentives USA and Canada - Top 20 Esource Innovations

SOLUTION APPROVED BY ENERGY PRODUCERS/UTILITIES IN NORTH AMERICA









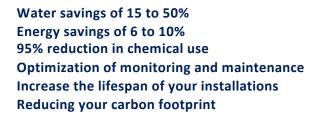




to operate your cooling water completely without chemicals. MEASURED RESULTS



EFFICIENCY



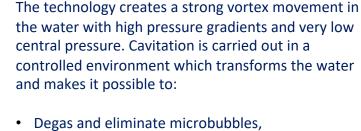
In your cooling, production or freezing process, a cooling tower is an essential part of the value, efficiency and capacity of your facility. The treatment of cooling

The IVG-CT solution based on integrated Vortex Process Technology allowing you

water and especially its efficiency directly influence the financial return.

So far, this water treatment is mainly carried out with the use of chemicals.

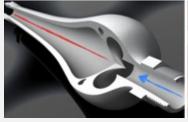
Vortex Process Technology: The vortex shapes and transforms the water flowing through it



- Decrease viscosity,
- Increase conductivity,
- Increase thermal capacity,
- Precipitate calcium in non-adherent crystals,
- Reduce corrosion















Water based Cooling Towers & Evaporative Condensers. Areas of applications All the water used by your production process can also be treated with the IVG-CT solution Increase in life expectancy of As limescale, corrosion and microbiological growth are eliminated, the equipment (cooling towers, exchangers) will have a longer lifespan. your equipment The cooling capacity will increase due to the greater thermal capacity of the cooling Optimisation water. Maintenance Reduced maintenance, operational functioning and 24/7 remote assistance.. The solution is sized according to the specific needs of each installation and additional Tailor Made solution technologies can be added (electrolysis without chemicals, nano-filtration ... etc.) Modular design Our installations can easily be added to an existing installation - retrofitting as a side "Plug and play" stream solution The OPEX will decrease as well as the use of chemicals, less drinking water and Opex wastewater, reduction of the water footprint. Return on investment up to 3 years, full operational lease will save you 15-60% on Return on investment OPEX cooling water. We develop monitoring software and perform updates remotely without downtime. Software Monitoring (SCADA system) The main control points are the pH value, conductivity level, flow rate and pressure. Reporting accessible on several types of media



Our solutions are deployed in > 80 chemical-free installations in the Benelux, United States and UAE.









Worldwide distribution : H2oVortex Luxembourg www.h2ovortex.com

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