



Planet Horizons
Technologies

Physical Water Treatment

Aqua-4D[®] System

Industry



Reduction in energy consumption

Reduction in chemical products
consumption

Cost-cutting in maintenance of cooling
and heating systems

Reduction of production downtime



Water and its use in industry

Nowadays water is often used in industry for heating, cooling, washing, cleaning, mixing and diluting. It is often mixed with chemical products and then rejected, with treatment or not, or recycled. The regulatory requirements, the rarity of water and its increasing cost, lead industries to look for new solutions in water treatment, more economic and more respectful of the environment.

Problems incurred by industry with water

Scale deposit, corrosion and the development of bacterial films are the principal problems faced in industry when using water. Some industries have replaced aggressive chemical products for the environment or persons by aqueous solutions which reinforced these problems.



Traditional way of water treatment

There are numerous methods of water treatment used in industry. Most of them require a lot of water, chemical products and energy. On one hand they are effective, but on the other hand they are expensive and/or toxic to the environment.



Aqua-4D® : an eco-friendly and sustainable solution

As complement or instead of traditional water treatments, Aqua-4D® is a solution that does not need any chemical products, does not change the chemical composition of the water, does not produce waste, has a low energy consumption and does not need any maintenance.

By modifying the physical structure of the water, Aqua-4D® eliminates scale deposits, corrosion due to aggressive water and development of biofilms. Aqua-4D® also has a curative effect on scale deposits and biofilms.

Benefits of the Aqua-4D® treatment

- Protection for technical installations in contact with water: heating and cooling systems, heat exchangers, water cooling towers, piping, plumbing, water pumps
- Prevention and elimination of scale deposit and iron/manganese deposits.
- Elimination of biofilms in the waterworks without chemical products
- Easier cleaning of surfaces in contact with water
- Better respect of the environment

Return on investment

- Optimization of energy consumption
- Extension of installations life
- Reduction of chemical consumptions (disinfectants, cleaning, anti scale and anti corrosion products)



Control pipe in hot water with deposits before installing Aqua-4D®



Control hot water pipe after 5 months with Aqua-4D® water treatment