



Safe, clean water for hotels

Hotels are at a high risk of Legionella, making control essential to protect both guests and reputation. A WCS generator provides an effective and safe solution to combat harmful bacteria like Legionella in domestic water while reducing biofilm buildup in pipes.

Hotel water systems provide the ideal environment for Legionella bacteria as they are complex and water consumption in the rooms varies depending on occupancy. Exposure to Legionella bacteria can cause Legionnaires' disease – a severe and potentially fatal form of pneumonia. The disease is transmitted by small, aerosolised water particles from, for example, a shower or tap, that have been infected by Legionella.

One of the primary sources of the bacteria is the slimy biofilm on the inner surfaces of pipes, where bacteria multiply rapidly. Our generators and disinfectant use a highly effective and sustainable method to remove and prevent both bacteria in the water and biofilm in the pipes.

Highly effective

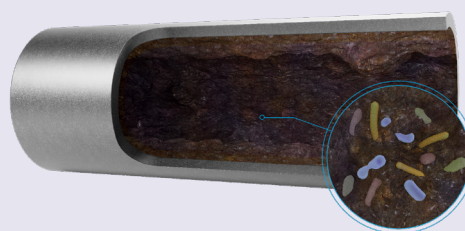
WCS generators produce the disinfectant Neuthox® through an electrolysis process using salt and water. Neuthox is an aqueous solution of hypochlorous acid (HOCl), a mild biocide that is highly effective against bacteria as it breaks down the cell walls of microorganisms, destroying them.

Neuthox has been tested according to, and fully meets, European (EN) standards for effectiveness. For example, Neuthox eradicates 99.999% of Legionella bacteria in water within 60 minutes at a low concentration of 3 ppm.

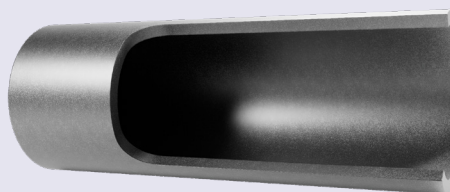
What is biofilm?

Biofilm is a colony of bacteria inside a water pipe, appearing as a slimy coating.

Before Neuthox...



After...



Safe and sustainable

Due to its high efficiency, only low concentrations of Neuthox are needed to disinfect water and minimise biofilm in pipes. The concentration directly from the generator is typically 0.05% HOCl (~500 ppm). It is automatically dosed into the water in small, appropriate amounts.

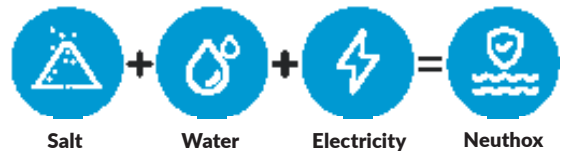
Neuthox has a neutral pH value and, unlike most other disinfectants, no protective equipment is required to handle it.

It is a mild and sustainable solution that protects both people and the environment. In fact, our own immune system uses the same substance to fight infections. In nature, Neuthox breaks down into nothing but salt, so it can be discharged with a clear conscience.

The solution also limits your CO₂ footprint. Neuthox is produced on-site using only readily available raw materials (salt, water, and electricity), eliminating the need to transport chemicals. Additionally, it can reduce energy consumption by allowing for lower water temperatures.

Scalable solution

Our generators are dimensioned for different sizes of hotels, so large or small, we have the right generator for your property.



Key benefits:

- Protects your guests and reputation
- Effectively removes and prevents bacteria and biofilm
- Uses gentle, safer disinfectant
- Has minimal environmental impact
- Offers low total costs
- Is user-friendly with automated production and dosing

"HOCl is 70-80 times more effective than regular chlorine (OCl) at destroying bacteria."

WCS Water & Air
MARLOWE Environmental Services