Harness the Power of Eco-Friendly Disinfection

WATER

/ New technology /

Harness the power of modern disinfection

Enjoy the power of clean water

Traditional disinfecting methods have been used for decades to solve water cleaning and drinking water problems. All these methods, whether we talk about filtration, UV light or chemical methods using mainly chlorine or chlorine gas come with a price we pay for that clean water.

GB Water developed a new technology that uses electrolysis to create a disinfectant liquid only using 3 ingredients, high-purity salt, water and electricity.

Kills Legionella

Kills Bacteria

Kills Viruses

Kills Fungi

/ Welcome a new, simpler, cleaner era /

Where our technology can solve your water problems

Water treatment plants

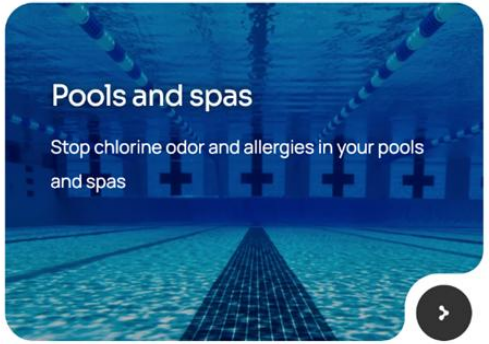
Disinfect drinking water in water treatment plants

Hospitals

Stop legionella bacteria in hospitals or unused buildings

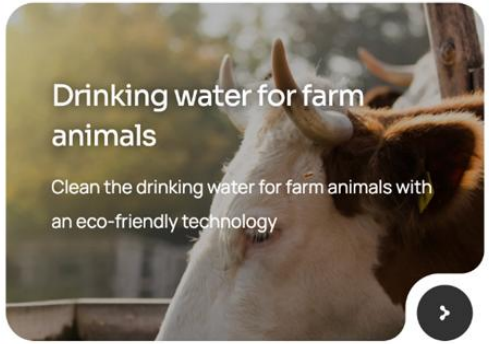
Wastewater

Make your wastewater compliant to discharge limits



Pools and spas

Stop chlorine odor and allergies in your pools and spas

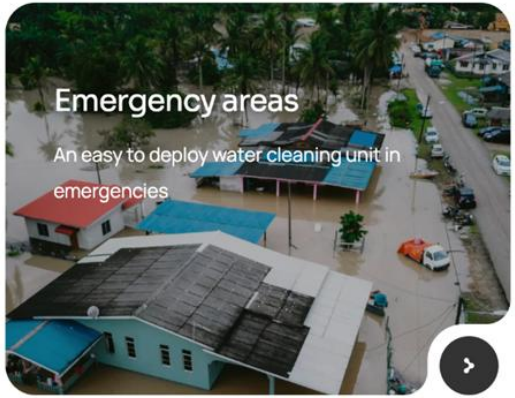


Drinking water for farm animals

Clean the drinking water for farm animals with an eco-friendly technology

Clean stables and agricultural equipment

Clean stables and agricultural equipment without chemical procedures



No administration or authorisation process

As the process itself and the disinfectant liquid is not a hazardous material, it's a biocide

Simple implementation and maintenance

Easy-to-implement system with affordable maintenance that we provide

No additional storage costs

As part of the maintenance we provide you with the necessary salt supply

/ GB IONSIX /

How does it work?

The disinfectant liquid, IONSIX, which consists of six different active ingredients (Cl, ClO_2, O_3, O, H_2O_2, NaOh) is highly **effective in killing pathogens (viruses, bacteria, fungi) including resistant bacteria (eg. Legionella)** that single-agent disinfectants cannot remove. **It exerts its antiseptic effect by breaking down the cell membrane of viruses, bacteria and fungi, so that resistance cannot develop.**

Its application continuously cleans the water supply involved in its use and prevents biofilm formation in the pipe system. Moreover, its disinfectant effect lasts for a longer period of time compared to conventional methods.

Kills viruses, bacteria, fungi and Legionella

Prevents biofilm formation

Longer effect compared to conventional disinfection methods

GB IONSIX

only 3 components:
water + salt + electricity

How does our technology compare with the others?

	Filtration (RO)	UV	Chemical procedures			BWATER
			Chlorine	Chlorine dioxide	Ozone	
Shelf life	none	none	long-term	very long-term	very short-term	very long-term
Disinfection effect	very strong	average	average	strong	strong	very strong
Side effects, health risks	none	none	critical (THM, HAA)	average	average	not measurable
Safety risks	none	very low	extreme	high	average	very low BIOCIDE
Resources required for operation	energy	energy	chlorine gas and bleach	hydrochloric acid, sodium chloride	oxygen and energy	salt and energy
Operating cost	high	high	average	high	high	low
Mechanism of action	filtration	light	single oxidation	single oxidation	single oxidation	multiple oxidation

Technology and implementation

The technology is based on the principle of conventional **electrolysis**. The system is based on a device that uses a small amount of high purity salt (NaCl, EN973, EN 16401) and electricity to produce the disinfectant liquid, GB IONSIX, from the incoming water at the point of use. The right amount of IONSIX is then pumped into the water system using a chemical dosing pump.

1. Softener (iron and manganese) 2. Salt tank / brine 3. GB Universal Units 4. GB Ionsix Disinfectant liquid (final product) 5. Dosing pumps 6. Water quality analyzer box

Thanks to the compact and modular technology the space requirement of our solution is very small.

No permit requirement

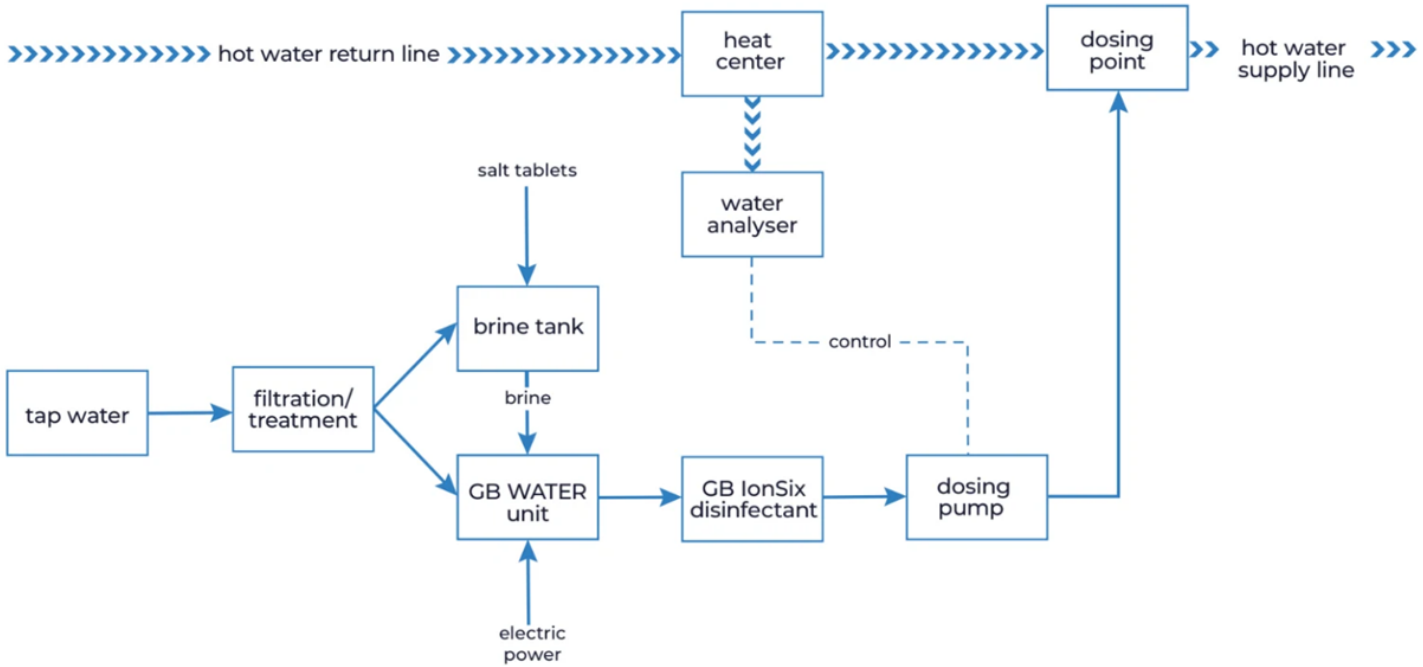
No regulations for storage

No hazardous substances

No administration

HOT WATER SYSTEM

process flow diagram



GB Water Disinfection Kft.

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