



## THE INNOVATIVE WATER SYSTEM DISINFECTION UNITS

Clean water is one of the most important and indispensable natural resources of our time. Providing water free of contaminants, bacteria and parasites is especially important for operators of utility systems serving households.

Guaranteed water quality is also of paramount importance in the institutions of the health care system, in the system of child care and education institutions, or even in the food and pharmaceutical industry.

However, the production of clean water and its feeding into piping systems is not a sufficient condition for water to reach end users without any contamination. To do this, piping systems must be as clean as the water flowing through them.

Previously, it was not possible to easily, simply, quickly and efficiently clean a developed water system, many of which had been in operation for decades, of substances that were hazardous and harmful to health. However, the innovative solutions provided by Aqua Modisys open a new chapter in this area.

The special advantage of Aqua Modisys is that it can disinfect any water system without the use of chemicals that are harmful to health. A unique feature of Aqua Modisys technology is that it is gentle on the environment but ruthless against pathogens and contaminants. It disinfects and cleans, all without the generation of hazardous waste, so it does not burden our natural environment either.

## PRESENTATION OF THE PRODUCT

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## AQUA MODISYS 03+

### The ozone disinfection unit

In addition to drinking water quality improvement technologies, the cleaning programs of the water supply networks themselves have been relegated to the background, although a single flush cleaning of these networks is not efficient enough.

Operators have received and continue to receive a number of water quality complaints from consumers (eg. taste, odor, etc.).

With conventional rinsing, it is practically impossible to prevent the formation of secondary contaminants, just as it is not possible to remove the biofilm formed on the pipe wall with this method.

However, the innovative ozone disinfection unit we designed is able to completely eliminate the biofilm formed on the pipe wall, thus ensuring that drinking water reaches consumers through a clean, disinfected network.

In the event of an order, we will deliver our mobile equipment to the intervention site, and our expert colleagues will use special hoses to build a closed circuit for circulating ozone water and carry out the necessary disinfection.

#### **MORE INFORMATION**

The duration of the intervention is normally approx. 6-8 hours, which can be increased in case of stubborn biological infection to achieve the desired goal.



Ozone is 51% stronger at killing viruses and bacteria than chlorine and achieves the desired effect more than three times as fast. Depending on the microorganisms in the water, its disinfecting effect can be up to 600-3000 times more effective.

In case of customer demand, in addition to or in combination with the circulation of ozone-containing water, it is also possible to perform chemical disinfection with the help of the chemical dosing system built into the equipment.

### **For which equipments and systems is Aqua Modisys O3 + recommended for disinfection?**

- ▶ Drinking water, soft water, mineral water pipelines, technological equipment that have a stubborn biofilm layer formed on the inner surface and so far it has been unsuccessful to remove by traditional methods
- ▶ Pressure filters and storage tanks;
- ▶ Water storage pools, water towers.



## AQUA MODISYS T+

### The thermal disinfection unit



In the traditional percentage of disinfection procedures, cleaning is not usually complete at first, so it has to be repeated again, which is a waste of time and an additional expense.

However, thanks to the thermal disinfection of Aqua Modisys T+, the cleaning effect is also effective where the chemicals have not been able to penetrate so far, thus guaranteeing the success of the disinfection.

An additional advantage of the device is that with the innovative online microbiological monitoring system we can monitor the processes and get immediate information about the success of the intervention,

there is no need to wait for feedback from the laboratory - even for several days - about the results.

As a result of the Aqua Modisys T+ thermal disinfection process, pathogens in the system are eliminated and contaminants are removed.

With the thermal disinfection unit we designed, we eliminate stubborn microbiological contaminants in various elements of the water supply network, be it the storage tank or the pipeline section. With the help of our service, drinking water reaches consumers through a clean, disinfected network.

When ordering, we deliver our mobile equipment to the intervention site extremely quickly, and our expert colleagues use special hoses to build a closed circuit for circulating high-temperature (approx. 85 °C) water and carry out the necessary disinfection.

#### **MORE INFORMATION**

The duration of the intervention is normally approx. 6-8 hours, which can be increased in case of stubborn biological infection to achieve the desired goal. In case of extra demand, we can further increase the disinfection efficiency with the disinfecting chemical with the help of the built-in dosing system for the hot water.

It is important that the owner or operator of the equipment to be disinfected (tank, piping, drinking water system, etc.) declares in writing in advance that the material of the equipment is heat-resistant, ie. the temperature of 85 °C used during thermal disinfection will not damage the equipment.



#### **For which equipments and systems is Aqua Modisys T+ recommended for disinfection?**

- Pressure filters and storage tanks;
- Water storage pools, water towers;
- Drinking water, soft water, mineral water pipelines, technological equipment made of heat-resistant steel, stainless steel, special plastic.



**AQUAPROFIT**

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