



# About us

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Engineering company  
**AQUAWORLD**

**Industry**

**Ecology and water industry**

**Services**

The introduction of modern methods of water purification, water circulation systems and wastewater treatment. Design and installation of equipment for water purification and wastewater treatment.

**Year of foundation**

**2009**

**Number of specialists**

**20**

**Number of companies**

**More than 200**

**Number of projects**

**More than 1000**

**E-mail: [info@aquaworld63.ru](mailto:info@aquaworld63.ru)**

**Tel. (846)310-34-22**

# Our advantages



**Strategic logistics**



**Convenient payment ways**



**Qualified and experienced specialists**



**High quality and reasonable price**



**Application of modern technologies**

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# Company profile

Plant facilities



Water pumping enterprises, thermal power stations



Container stations



Sanitation and protection of utilities



Domestic manufacture



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# Plant facilities, Water pumping enterprises, Thermal power stations

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# Plant facilities

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1. Water purification of surface sources for water pumping enterprises, thermal power stations, large industrial enterprises
2. Water Treatment Container Stations
3. Water treatment for steam and hot water boilers



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# Water pumping enterprises, Thermal power stations

1. Designing of water treatment and wastewater treatment systems and facilities
2. Supply of water treatment and water purification equipment
3. Performing of the functions of a general contractor during the construction of water treatment and purification systems, during installation, installation supervision and commissioning works



**For industries**



# Water treatment for boiler installation

Treated boiler feed water ensures:

Prevention of deposits on heat-conducting surfaces

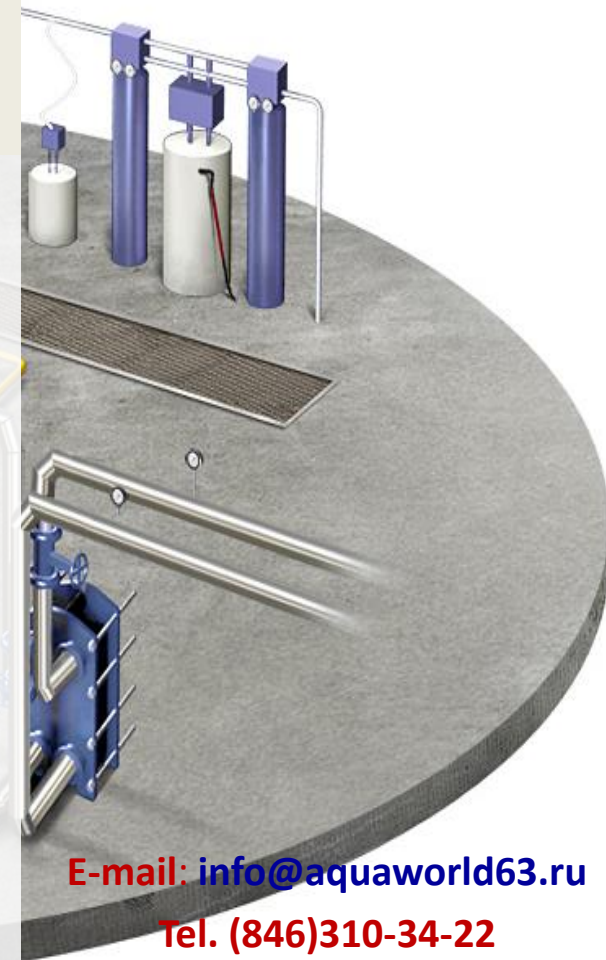
Energy saving, protection of materials from which the boiler is made from thermal overload and destruction

Corrosion prevention in the entire system, including condensate lines

Ensuring maximum operating availability, reducing repair costs

Ensuring of the trouble-free operation of the boiler and the quality of steam suitable for its use, with minimal losses due to the deposition of salts

The highest possible efficiency of work



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# Container stations



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# Container stations

## Field of application

- Housing and communal facilities - reconstruction or construction;
- Boiler and steam generator installations.
- Water utilities both urban and rural. Rotational and cottage villages.
- Enterprises of gas, oil, mining and smelting industry.
- Enterprises of food and pharmaceutical industry.
- Military units, outposts, bases and temporary bases; division of the Ministry of Emergency Situations, zone of natural disasters.
- Hotels, agricultural towns, resorts.

## Advantages



Transportable  
Compact  
Anti-vandal



100%  
operational  
compatibility



Minimum  
construction  
work



Environmental  
compliance



Without project  
and passing  
examination



Service life over  
20 years



The possibility of  
commissioning  
new containers



The shortest  
possible  
commissioning  
dates



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# Options

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**Capacity**

**From 1.0 – up to 250  
m<sup>3</sup>/h**



**Operation conditions**

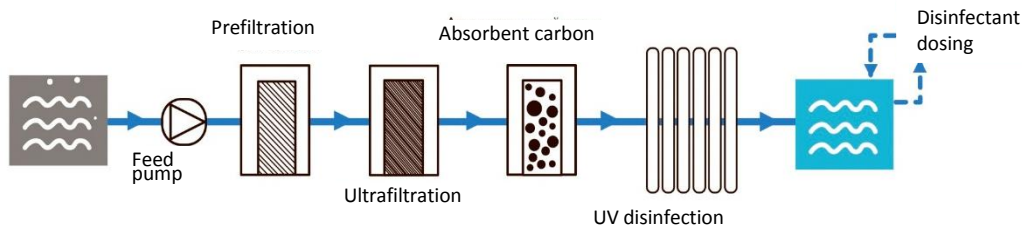
**From -55 °C up to +55  
°C**

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# Standard layout of modular water treatment systems

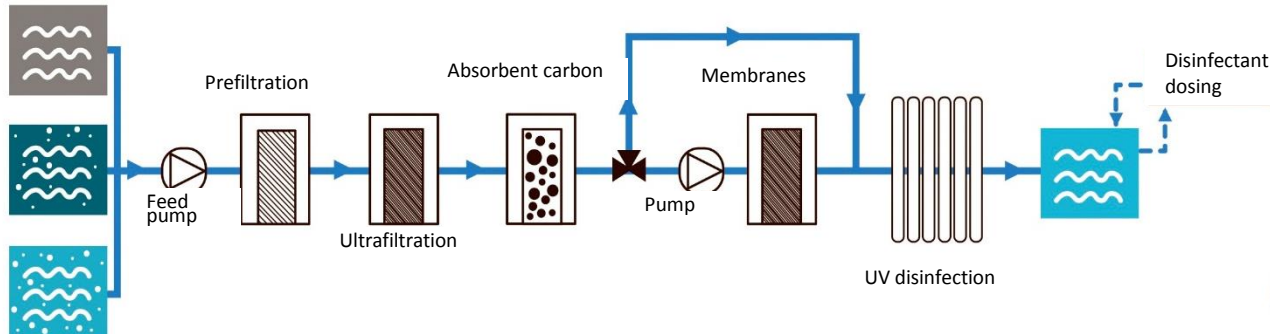
## Fresh water



Container treatment facilities for the treatment of river water using ultrafiltration technology



## Complete complex for any water



Desalination plants are produced for the treatment of saline and sea waters, using ultrafiltration and membrane technologies.



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\* The system can be supplemented with separate containers with a system of storage and distribution of clean water!

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# Sanitation and protection of utilities

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# Where water flows, there are deposits and sediments

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**90% of people believe that water flows through other pipes to their homes.**

**Causes of dirty drinking water:**

- Old water pipes
- Unprotected cast iron and steel pipes
- Wear of coatings
- The structure of the water supply pipeline
- Water flow and operation conditions
- Water quality
- Service of water pipeline



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# TECHNOLOGY OF CLEANING AND DISINFECTION OF PIPELINE SYSTEMS

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## General description of work process:

- Water shut off
- Filling the system with reagent
- Maintain system fill level
- Discharge of reagent
- Flushing of system

Depending on the type of system being washed, its condition, configuration, etc., the most suitable engineering solution is selected.



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# TECHNOLOGY OF CLEANING AND DISINFECTION OF PIPELINE SYSTEMS

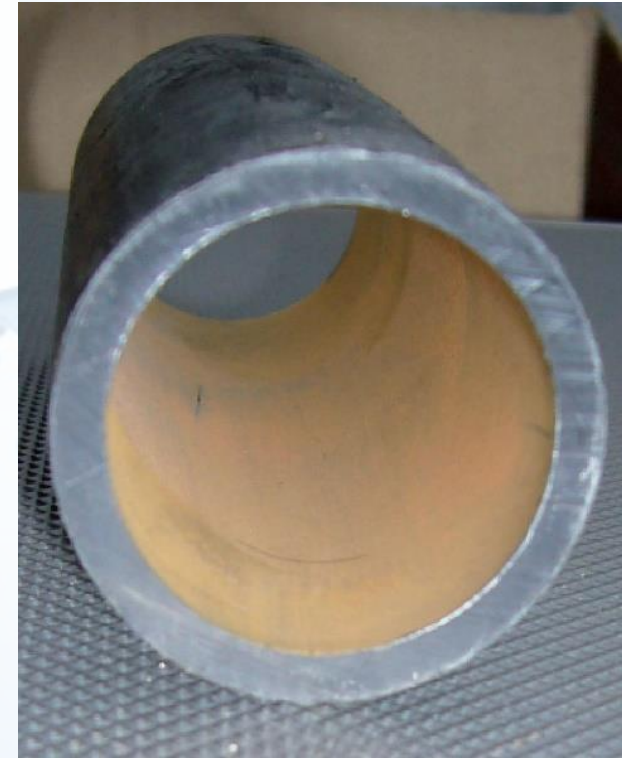
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## Advantages over pneumatic flushing:

- Removes biological deposits
- Facilitates general system flushing and disinfection
- Reduces total flushing time

## Safety

- Permitted for use in drinking water systems
- Trouble-free disposal
- Plumbing is not exposed to any damage and dirt.



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# Protection of engineering utilities and equipment against corrosion

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# TECHNOLOGY FOR PROTECTION OF SYSTEMS AGAINST CORROSION AND SEDIMENTS

## Problems:

- Not all systems are correctly designed for required operational conditions and water quality.
- Water partially contributes to corrosion.
- Limited equipment service life
- Water properties stabilization required (pH, hardness)

## Operation principle:

- Proportional dosing of a special **food grade** inhibitor based on silicates and phosphates to the water flow (about 15 g per 1 m<sup>3</sup> of water)

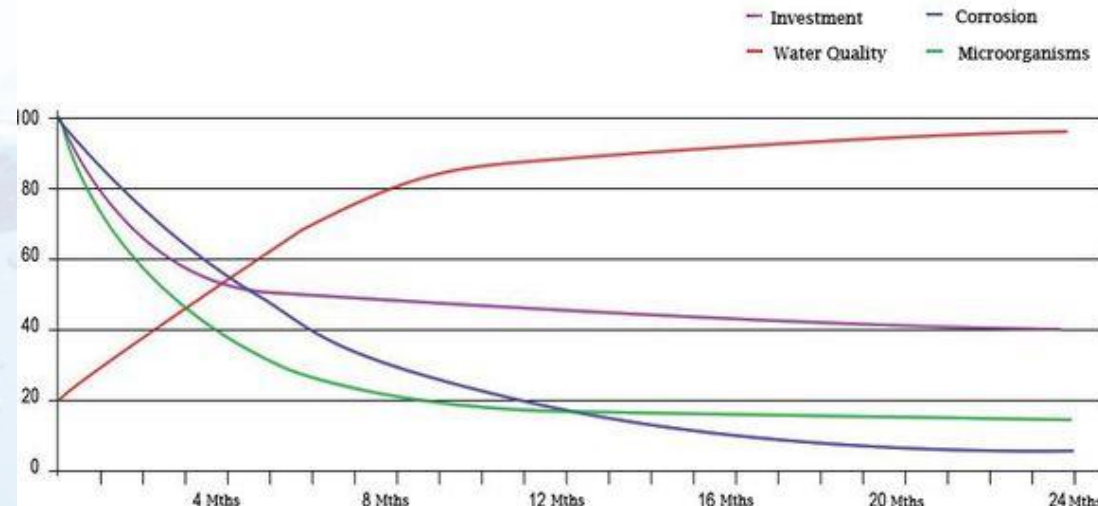
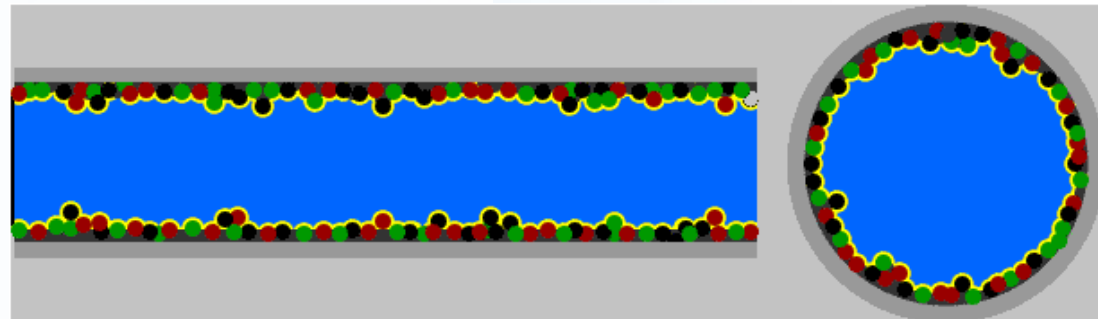


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# HOW IT WORKS CHEMICALLY

- The reagent forms a closed, waterproof layer over sediment and prevents further chemical reactions.
- An insulating "silicate" layer is formed in the system, chemically bound to the anode and deactivates it.
- The reagent stops the formation of corrosion and biofilm and thereby maintains the internal diameter of the pipes.



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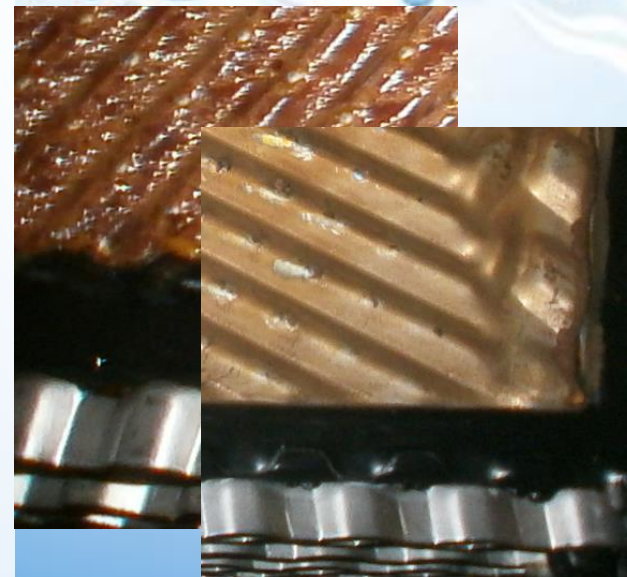
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# TECHNOLOGY FOR PROTECTION OF SYSTEMS AGAINST CORROSION AND SEDIMENTS

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## Advantages:

- a significant increase of the service life of pipelines and heating systems (boiler equipment, heat exchangers) without total overhaul;
- maintaining of hydraulic capacity for the entire period of operation;
- guarantee of maintenance of quality of the water delivered to the consumer;
- safety of use in cold water supply and hot water supply of drinking water, certified by the NSF, has certificates and permits for application in Russia.



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# Our support

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All-Russian public organization  
“Business Russia”

[www.samdeloros.ru](http://www.samdeloros.ru)



Ассоциация  
содействия развитию  
предпринимательства

“St. Petersburg Interregional  
Information and Business Center”  
Association with the support of the  
Committee on External Relations of  
St. Petersburg

[www.spbmidc.ru](http://www.spbmidc.ru)



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