



# WATER TREATMENT SYSTEMS FOR BEVERAGE AND DRINKS





By closely following the technologies of water and wastewater treatment systems in developed countries, VATEK Environmental Technologies provide turnkey contracting services in the fields of industrial, medical and public water treatment, project and consultancy, maintenance and technical service, consumables, equipment, spare parts and water chemicals internationally.

## WATER TREATMENT SYSTEMS

The water used in the beverage and drinks sector must meet the criteria of drinking water or pure water. Water is needed at different stages during the production phase, packaging and bottling stages.

It is desirable that the water to be used in the beverage and drinks sector should be free of suspended solids and bacteria and have low conductivity and hardness values.

Generally **ultrafiltration systems** and **ultraviolet disinfection systems are used** for carboy and bottling and **Reverse osmosis** or **double pass reverse osmosis systems** are preferred for soft drinks and beverages.

With our **gray water and rainwater treatment systems** which have become more frequent in companies, the systems pay off in 1-2 years and reduction in total water use is achieved. Gray water treatment systems can be used for purposes such as garden irrigation by purifying all incoming water excluding of the toilet.

We also provide solutions with our **container type water treatment systems** in the desired capacity and in accordance with the desired purified water standards for enterprises with field problems.

***The services we provide for Water Treatment Systems for Beverage and Drinks sector are as follows;***

- Filtration and softening systems
- Dosing and ultraviolet disinfection systems
- Reverse osmosis water treatment systems
- Ultrafiltration water treatment systems
- Deionized water treatment systems
- Container type water treatment systems
- Wastewater treatment systems
- Wastewater recovery systems

## FILTRATION AND SOFTENING SYSTEMS



Description

Filtration systems remove suspended solids, particles and remove organic pollution. It is used to provide the water with desired hardness degrees to be used in production. It can also be used to feed all lines of the factory.

# DOSING AND ULTRAVIOLET DISINFECTION SYSTEMS



Description

Dosage systems are used for many purposes such as; water disinfection, pH reduction and raise, corrosion prevention and so on. Ultraviolet device are used to sterilize water. It is effective in removing micro organisms such as bacteria, viruses, fungi and mold in water.

# REVERSE OSMOSIS WATER TREATMENT SYSTEM



## Description

Dissolved organic and inorganic substances (salty, bitter, high conductivity, etc.), salts, heavy metals, viruses and bacteria in the water are treated with reverse osmosis systems. Up to 96-99% of purity in water could be achieved. Water with different sources such as well water, tap water, sea water etc. could be treated with high purity using Reverse Osmosis systems.

# ULTRAFILTRATION SYSTEMS



Description	Suspended solids, microorganisms and bacteria could be removed from water without using chemicals thanks to the membrane structure of ultrafiltration systems.
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# DEIONIZED WATER TREATMENT SYSTEMS



Description	Deionized and mixed bed resin systems are used to meet the deionized water requirement and special applications in industrial plants. Deionization process is the process of removing minerals such as cation and anion ions from water.
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## CONTAINER TYPE WATER TREATMENT SYSTEMS



### Description

Mobile water treatment systems that meet the need for water quickly, reliably, easily and economically. Container systems can be designed tailor-made, regardless of the raw water supply and the amount of water to be treated. Container type water treatment systems are fully assembled inside the container and ready for commissioning.

# WASTEWATER TREATMENT SYSTEM



## Description

It provides recovery and disposal of wastewater generated by domestic use in residential areas with unavailability of sewage system. At the same time, these systems are applied to meet the discharge criteria of wastewater from industry.

# WASTEWATER RECOVERY SYSTEMS



## Description

Not all water used in production or disposed as waste is not usable. It can be regenerated or used for general use with several water treatment system applications. When wastewater is recovered and used for production or other purposes (garden irrigation, vehicle washing), enterprises have a great advantage in terms of cost.

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