



WATER TREATMENT SYSTEMS FOR PHARMACEUTICAL SECTOR





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 microbiological quality of water used in the pharmaceutical industry is of great importance. Pure water is used in many stages of pharmaceutical production such as cleaning of certain equipment as an intermediate or at different stages of production and in the manufacturing of certain pharmaceutical chemicals within the scope of semi-products. Our water treatment systems which in appliance with European standards which is used in Turkey and US standards, remove TOC from water materials and provide color, odor and ion removal.

The most widely used systems in the pharmaceutical sector are; **Deionized water treatment systems** and **Double Pass Reverse Osmosis systems**. Bacteria removal is at least as important as ion removal, so **dosing** and **ultraviolet systems** are crucial to use.

Using **wastewater recovery systems**, which have recently become widespread in factories, we recycle water to production or make it usable in other areas (garden irrigation, car washing, etc.). These systems reduce the amount of water usage and pay off in 1-2 years.

We provide solutions with our **container type water treatment systems** in facilities with area problems.

For the pharmaceutical sector, our services in the field of water treatment systems 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 factories.

DOSING AND ULTRAVIOLET DISINFECTION SYSTEMS



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

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 SYSTEMS



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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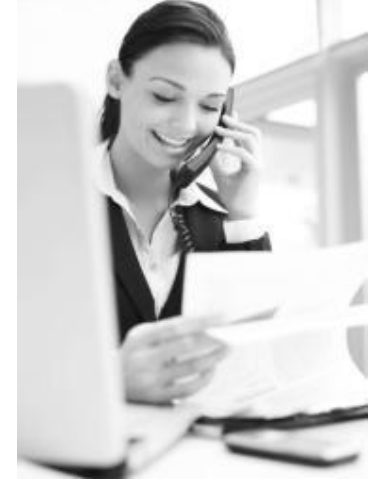
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