



WATER TREATMENT SYSTEMS FOR HDYROPONIC GREENHOUSE APPLICATIONS





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.

WHY SHOULD WATER TREATMENT SYSTEMS BE USED IN HDYROPONIC GREENHOUSE APPLICATIONS?

Water is a must for **hydroponic agriculture**. Quality water increases the efficiency of greenhouses. Poor quality water can lead to slow growth of the crops and in some cases, gradual death of the plants.

Highly soluble salts can interfere with water and nutrient uptake and directly damage the roots. Removal of unwanted substances in water can be provided by **Reverse Osmosis** Systems. **Ultrafiltration** systems remove bacteria, viruses and suspended solids from the water.

Advantages of Water Treatment System;

- Up to 70% increase in efficiency
- Controlled growth
- No risk of germs, bacteria and parasites
- Saves water
- Product quantity increase with folded systems
- Delicious and healthy
- Minimal disinfection and fertilizer requirement





Our services for water treatment systems for hydroponic greenhouse applications are as follows;

- Filtration systems
- Dosing and Ultraviolet disinfection systems
- Ultrafiltration water treatment systems
- Reverse Osmosis water treatment systems

FILTRATION SYSTEMS



Description

Filtration systems remove suspended solids, particles and organic pollution from water.

DOSING AND ULTRAVIOLET DISINFECTION SYSTEMS



Description

Dosing systems are used for various applications. Some are as follows: Water disinfection, setting the pH of water, corrosion prevention etc.

Ultraviolet devices are used to sterilize water. It is effective in removing microorganisms such as bacteria, viruses, fungi and mold in water.

ULTRAFILTRATION SYSTEMS



Description

Suspended solids, microorganisms and bacteria could be removed from water without using chemicals thanks to the membrane structure of ultrafiltration systems.

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.

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