



WATER TREATMENT SYSTEMS





We understand the critical role that water plays in our lives and industries.

We are committed to delivering sustainable, efficient, and reliable solutions that not only meet but exceed our customers' expectations. Our team of experts is dedicated to finding custom-tailored solutions for unique challenges.

We are at the forefront of technological advancements in the water treatment industry, ensuring that our solutions are cutting-edge and highly efficient.



Our Products

1 Filtration and softening systems

2 Reverse osmosis water treatment systems

3 Ultrafiltration water treatment systems

4 River water treatment systems

5 Container type water treatment systems

6 Wastewater treatment systems

7 Sea water treatment systems





1 Filtration and Softening Systems

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.

PRODUCT SPECS

Filtration Method

Flow Rate (Gallons per Hour)

Softening Method

Water Quality Output

System Components

KEY DETAILS

Coagulation, Flocculation Sedimentation, Filtration

Up to 10,000 GPH

Ion Exchange, Precipitation

Potable Drinking Water, Regulatory Comp

Pre-screening, Coagulation, Flocculation, Sedimentation, Filtration, Softening, Disinfection



2 Reverse osmosis Water Treatment Systems

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.

PRODUCT SPECS

- Filtration Method
- Flow Rate (Gallons per Hour)
- Membrane Type
- Water Quality Output
- Materials
- Operation Mode

KEY DETAILS

- Reverse Osmosis (RO)
- Up to 50 GPH
- Thin-Film Composite
- Purified Drinking Water
- Stainless Steel, Food-Grade Plastics
- Automatic and Manual Control



3 Ultrafiltration Water Treatment Systems

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

PRODUCT SPECS

- Filtration Method
- Flow Rate (Gallons per Hour)
- Membrane Type
- Feed Water Source
- Water Quality Output
- Materials

KEY DETAILS

- Ultrafiltration (UF)
- Up to 50 GPH
- Hollow Fiber
- Municipal or Well Water
- Purified Drinking Water
- Stainless Steel, Food-Grade Plastics



4 River Water Treatment Systems

Generally, river waters contain dense suspended solids. With the river water treatment systems, the water taken from the river is subjected to various treatment applications and turned into domestic water or drinking water quality.

PRODUCT SPECS

- Water Source
- Flow Rate (Gallons per Hour)
- Filtration Method
- Treatment Stages
- Water Quality Output

KEY DETAILS

- River Water
- Up to 10,000 GPH
- Coagulation, Flocculation, Sedimentation, Filtration
- Pre-screening, Coagulation, Flocculation, Sedimentation, Filtration, Disinfection
- Potable Drinking Water, Regulatory Comp



5 Container type Water Treatment Systems

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.

PRODUCT SPECS

Water Source
Flow Rate (Gallons per Hour)
Filtration Method

Water Quality Output
Application Areas

Materials

KEY DETAILS

Variable (Depending on Setup)
Up to 10,000 GPH
Coagulation, Flocculation, Sedimentation, Filtration
Potable Drinking Water, Regulatory Comp
Disaster Relief, Remote Locations, Construction Sites
Corrosion-Resistant Alloys, Stainless Steel



6 Wastewater Treatment Systems

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.

PRODUCT SPECS

Wastewater Source
Treatment Method

Membrane Type
Water Quality Output
Application Areas

KEY DETAILS

Municipal, Industrial, Residential
Primary Treatment, Secondary & Tertiary Treatment
Ultrafiltration (UF), Reverse Osmosis (RO)
Environmental, Reuse for Non-Potable Purposes
Municipal Wastewater Treatment Plants,
Industrial Facilities, Residential Communities



7 Sea Water Treatment Systems

With the sea water treatment systems, the salinity of the water is removed and the water is brought to the freshwater criteria. Seawater treatment systems provide water for general use or drinking water. Designing a specific system considering the energy consumption with the best treatment efficiency is crucial in sea water treatment systems.

PRODUCT SPECS

- Treatment Method
- Flow Rate (Gallons per Hour)
- Membrane Type
- Water Quality Output
- Application Areas

KEY DETAILS

- Desalination, Filtration, Disinfection
- Up to 100,000 GPH
- Reverse Osmosis (RO)
- High-Purity Desalinated, Meeting Regulatory Standards
- Marine Vessels, Coastal Installations, Desalination Plants



OUR REFERENCES

With a distinguished track record in the field of water treatment systems, **ALERMAK** has had the honor of serving prominent clients, including **TC CUMHURBAŞKANLIĞI SAVUNMA SANAYİ BAŞKANLIĞI** (Presidency of Defense Industries, Republic of Turkey), **TC ULAŞTIRMA BAKANLIĞI** (Ministry of Transport and Infrastructure, Republic of Turkey), **ASELSAN A.Ş.**, **TCDD** (Turkish State Railways), and **MARMARAY**. These esteemed references underscore Alermak's expertise and reliability in delivering advanced water treatment solutions.





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