

AQUALINE

 Pollet Water Group

WATER TREATMENT SYSTEMS



AQUALINE Water Technology is a regional leader in water and wastewater treatment, serving industrial, commercial, medical, and residential sectors across the MENA region. We focus on delivering efficient and sustainable solutions that match the region's growing demand for reliable water systems.

Aqualine was founded in Turkey and has strategically expanded its presence through regional centers in Amman, Jordan, and Dubai, UAE. Over the years, we have built a strong reputation for designing and delivering smart water treatment systems tailored to all types of water sources from surface and brackish water to industrial discharge. Our in-house engineering team brings practical experience and regional knowledge to every project, helping clients solve their water challenges with confidence.

Aqualine is part of Pollet Water Group, a respected European group established in 1992. With 5 manufacturing facilities, 23 distribution offices, and 2 engineering centers worldwide. The group gives us access to global expertise, supply chain strength, and advanced technologies. This partnership helps us deliver high-quality systems quickly and reliably across the region.

Aqualine's strength lies in the synergy of five fully integrated departments: Engineering, Projects, Production, Installation and Operation, and Distribution. This structure allows us to manage every part of the process, from early design to full system installation and ongoing support. With a dedicated production facility in Turkey and UAE with more than 1000 employees, which enables us to produce custom solutions efficiently and meet fast-track project timelines.

From cities to factories We specialize in providing innovative and intelligent water and wastewater treatment systems, for both public and private projects. Our mission is to promote sustainable development and safeguard water resources for future generations across the MENA region.

Join Our Mission. Make Water Count.

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WATER TREATMENT SYSTEMS

Aqualine offers a wide range of water treatment systems equipped with technologies that help optimize your water consumption and utilize alternative water sources. This reduces operating and energy costs while improving your production processes.

By using our water treatment systems, you can eliminate impurities such as salinity, turbidity, color, odor, iron, and others to obtain purified water suitable for drinking, irrigation, or various other applications.

We provide both standard solutions and custom-made concepts tailored to your needs. Our engineering department specializes in product customization. We have successfully completed hundreds of projects treating up to 230,000 CMD of water across the Middle East, North Africa, and select regions in Africa.

Our professional engineering team enables us to act as a reliable subcontractor for any project, offering full technical support and comprehensive after-sales services.



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1-ADVANCED WATER PURIFICATION SYSTEMS

1-1 AQUALINE MEGA RO SYSTEMS

Large scale is typically used for various industrial and commercial applications where a high volume of purified water is required. These systems are designed to remove impurities, including salts, minerals, and contaminants, from water by forcing it through a semi-permeable membrane under pressure.



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FEATURES

- Standard capacities 5,000 – 50,000 CMD.
- Single and multi-skid options.
- Common or separate pre-treatment.
- 7 element membrane housing.
- High recovery rates.
- Compact skid-mounted design.
- CE approved.

ADVANTAGES

- Improved taste, smell, and appearance of water.
- High-quality purification process.
- Effective contaminant removal.
- Reduction of conductivity/total dissolved solids (TDS).

APPLICATIONS

- Government and municipal water supply.
- Agriculture and irrigation.
- High-volume testing facilities.
- Large-scale commercial facilities.
- Military operations.
- Refugee camps.

AQUALINE MEGA RO SYSTEMS

Aqualine manufactures large reverse osmosis systems designed to eliminate high concentrations of contaminants from tap water, brackish water, and seawater.

These contaminants range from total dissolved solids (TDS), salts, bacteria, proteins, metals, organic substances, and dyes.

Our large-scale reverse osmosis systems are designed to handle manufacturing and healthcare facilities of great proportions. Regardless of what type of system that you might require, a large reverse osmosis system is custom-built to produce you the cleanest water for consumption or other use.

EXTRA OPTIONS

- Pre-treatment systems.
- Custom designs for mega capacities.
- Capability to remove other impurities such as fluoride, arsenic, radium, nitrate, sulfate, potassium, and more.
- Integration with SCADA systems.
- Mobile control.
- Remote alarming and reporting.
- Turnkey project delivery.

1-ADVANCED WATER PURIFICATION SYSTEMS

1-2 CONTAINERIZED SYSTEMS

Containerized systems, also known as mobile or modular systems, refer to complete and self-contained units of equipment and processes that are housed within standard shipping containers. These containerized systems are designed to be easily transported, installed, and operated at various locations, making them highly versatile and convenient for a wide range of applications.



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FEATURES

- Standard capacities 1- 2,000 CMD.
- Plug and play unit.
- Easy transportation.
- Limited civil work.
- Compact footprint.
- Turnkey delivery.
- Easy maintenance.
- 45 and 40 ,20ft/HC standard shipping containers.

ADVANTAGES

- Space efficiency.
- Deliver high performance at low life-Cycle.
- Energy efficient.
- Purified water suitable for drinking and irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Agriculture.
- Water bottling industry.
- Domestic use.
- Commercial & industrial use.
- Municipal water supply.
- Boiler feed water.
- Hotels and resorts.
- Potable drinking water.
- Agricultural and irrigation.
- Municipal water treatment.
- Food and beverage industries.

AQUALINE CONAINERIZED RO SYSTEMS

AQUALINE containerized reverse osmosis System is a self-contained, turnkey system that can function on-the-go or as a permanent water treatment plant, able to start pumping highquality product in less than a day after arrival on-site. Our containerized reverse osmosis systems are made to order, meaning your system will be specifically tailored to your water treatment requirements, containing all the amenities your reverse osmosis system could possibly need.

Each containerized reverse osmosis system is engineered with high-quality components to handle all types of harsh conditions.

Containerized RO systems offer a practical and efficient solution for addressing water treatment challenges in a wide range of scenarios. Their mobility, adaptability, and ability to produce high quality water make them an invaluable tool for ensuring access to clean water in various contexts around the world.

EXTRA OPTIONS

- Pre-Treatment.
- Customdesignsforhighercapacities.
- Thermal and acoustic Insulation.
- Electrical cabling and piping:
 - Lightninging equipment.
 - Piping for container inside systems.
 - Cabling and wiring of instrumentation inside the container to main control panel.

1-ADVANCED WATER PURIFICATION SYSTEMS

1-3 TREATED SEWAGE EFFLUENT SYSTEMS

A Treated sewage effluent (TSE) system, also known as a wastewater reclamation or wastewater reuse system, is a method of treating and purifying wastewater or sewage to a level where it can be safely reused for various non-potable purposes. This helps conserve freshwater resources and reduce the demand on traditional water sources.



UF SYSTEM



RO SYSTEM

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FEATURES

- Standard capacities 1 - 5,000 CMD.
- Advanced treatment technologies.
- Efficient nutrient removal.
- Automated monitoring and control.
- Energy efficient.
- Remote monitoring and maintenance.
- Compliance with regulations.
- Client-Centric customization.
- Comprehensive training and support.
- Environmental sustainability.
- Long-Term reliability.

ADVANTAGES

- Reduce suspend solids.
- Reduce bacteria and pathogens.
- Reduce organic matter.
- Reduce salinity.
- Reduce color and odor .
- Reduce oil and grease.
- Deliver high performance at low life- cycle costs.
- Energy efficient.
- Purified water suitable for drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Irrigation.
- Industrial processes.
- Cooling towers.
- Firefighting.

AQUALINE TSE SYSTEMS

At Aqualine, we are at the forefront of revolutionizing water management solutions with our cutting-edge treated sewage effluent (TSE) systems. With a deep commitment to environmental stewardship and sustainable practices, our TSE systems offer a transformative approach to wastewater treatment and reuse.

Aqualine TSE systems incorporate advanced treatment technologies such as membrane filtration, and biological processes. These technologies ensure the removal of solids, organic matter, nutrients, and pathogens from the sewage effluent, resulting in high-quality treated water.

Our team of experts works closely with clients to tailor TSE systems that align with specific requirements, whether it's for irrigation, industrial use, or other non-potable applications.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Advanced monitoring and control.
- Smart Integration.
- Customizable water quality.
- Modular scalability.
- Touch screen control panel.
- CS/SS304 stainless steel skid.

1-ADVANCED WATER PURIFICATION SYSTEMS

1-4 RIVER WATER TREATMENT SYSTEMS

River water typically contains a range of impurities, including suspended solids, microorganisms, organic matter, dissolved minerals, and potentially harmful contaminants. Treating river water is essential to ensure its safety, quality, and suitability for the intended purpose.



FEATURES

- Standard capacities 600 - 20,000 CMD.
- Based on physical and chemical treatment.
- Increased settling area.
- Corrosion-resistant and completely submerged PVC plates.
- Plates Installed at 55 degree for optimal solids settling.
- Self-cleaning plates and no moving parts.
- Space-saving footprint.

ADVANTAGES

- Reduced chemical usage.
- Reduced turbidity.
- Improved water quality.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- River water treatment.
- Industrial water treatment.
- Wastewater treatment.
- Agricultural & Irrigation.
- Food and beverage waste.

AQUALINE LAMELLA CLARIFIER

A lamella clarifier, also known as an inclined plate settler or tube settler, is a type of water treatment equipment used for and sedimentation clarification of water in various applications, including river water treatment. It is designed to remove suspended solids and particulate matter from water by using a series of inclined plates or tubes.

The lamella clarifier operates based on the principle of gravity settling and utilizes a large surface area within a compact footprint to enhance the settling process. Lamella clarifiers are often used as a component of a larger treatment train, combined with other processes such as coagulation, flocculation, and filtration, to achieve the desired water quality standards for river water treatment.

At Aqualine, we take immense pride in our advanced lamella clarifiers that have been meticulously designed to deliver exceptional performance and efficiency. Our lamella clarifiers stand out in the market for a variety of reasons, making them an ideal choice for your water treatment needs.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Electrically actuated valves.
- Touch screen control panel.
- Sludge thickness.
- Fully automated system.

1-ADVANCED WATER PURIFICATION SYSTEMS

1-5 DEGASIFIER SYSTEMS

A degasifier system, is a water treatment technology designed to remove dissolved gases, primarily carbon dioxide (CO₂) and Hydrogen sulfide (H₂S), from water. Dissolved gases in water can lead to various operational challenges and negative impacts in industrial processes, water treatment, and other applications.



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FEATURES

- Standard capacities 600 - 5,000 CMD.
- Cutting-Edge degasification Technology.
- Customizable solutions.
- PP material of construction.
- Efficient gas removal.
- Compact footprint.
- Reliable process optimization.
- Comprehensive monitoring and control.

ADVANTAGES

- Remove H₂S and CO₂.
- Reduced chemical usage.
- Deliver High performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Boiler feedwater treatment.
- Industrial process water.
- Wastewater treatment.
- Food and beverage production.
- Pharmaceutical manufacturing.
- Chemical processing.
- Aquaculture.
- Cooling water systems.

AQUALINE DEGASIFIER SYSTEMS

At Aqualine, we take pride in introducing our cutting-edge degasifier systems , designed to elevate water treatment processes to new levels of efficiency and performance. Our systems are meticulously engineered to address the critical need for removing dissolved gases, ensuring exceptional water quality and enhancing the effectiveness of various industrial applications.

Our systems are engineered to effectively and efficiently remove unwanted dissolved gases, such as carbon dioxide (CO₂) and hydrogen sulfide (H₂S), from water. By eliminating these gases, our systems prevent corrosion, reduce the risk of scaling, and improve the overall reliability of your water treatment processes.

We understand that different industries and applications have unique degasification requirements. That's why aqualine offers a range of degasifier systems customized to meet the specific needs of each client.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Fully automated system.
- Skid-mounted configurations.



2 -MEMBRANE TECHNOLOGY

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-2 MEMBRANE TECHNOLOGY

2-1 TAP WATER TREATMENT SYSTEMS

Tap water, also known as municipal water or public water supply, is the water that comes directly from the faucets or taps in our homes, offices, and other buildings. It is the water supplied to us by the local government or water utility companies through a network of pipes and distribution systems.



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FEATURES

- Standard capacities 5 - 90 CMD.
- Membrane vessels FRP.
- Compact design.
- Easy and auto operation.
- Short lead time.
- Plug and play.
- CF approved.

ADVANTAGES

- Up to 90 - 99 % removal of water Inlet contaminants.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for Drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Agriculture.
- Water bottling Industry.
- Domestic use.
- Commercial and Industrial use.
- Municipal water supply.
- Boiler feed water.
- Hotels and resorts.
- Potable drinking water.
- Agricultural and Irrigation.
- Municipal water treatment.
- Food and beverage Industries.

AQUALINE RO ALFA SERIES

These systems are designed to handle tap water with a low salinity level. The TDS level of tap water typically falls up to 2,000 ppm.

Our full line of tap water reverse osmosis systems are available with a wide range of capacities with our Standard Models (Alfa 140 - Alfa 1540) .

RECOMMENDED FEED WATER LIMITS

Feedwater TDS :	0 - 2000 ppm
Feedwater Pressure:	2 - 5 bar
Feedwater pH Range:	6 - 8
Silica (SiO ₂) Tolerance:	25 ppm max
Feedwater Temperature:	10 °C - 30 °C
Iron (Fe) Tolerance:	0.05 ppm (without ASC dosing) 0.2 ppm (with ASC dosing)

EXTRA OPTIONS

- Custom designs for higher capacities.
- High pressure multi stages .
- Automatic rinsing CIP system.
- Touch screen control panel.
- CS/SS304 stainless steel skid.

2 - MEMBRANE TECHNOLOGY

2-2 BRACKISH WATER TREATMENT SYSTEMS

Brackish water consists of more total dissolved solids than tap water, but has lower salinity than seawater, usually arises from underground water sources. Impurities in the water makes it difficult to use in many applications.



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FEATURES

- Standard capacities 24 - 2,500 CMD.
- Compact design.
- Easy maintenance.
- Easy and auto operation.
- Short lead time.
- Plug and play.
- CF approved.

ADVANTAGES

- Up to 90 - 99 % removal of water Inlet contaminants.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Agriculture.
- Water bottling industry.
- Domestic use.
- Commercial and industrial use.
- Municipal water supply.
- Boiler feed water.
- Hotels and resorts.
- Potable drinking water.
- Agricultural and irrigation.
- Municipal water treatment.
- Food and beverage industries.

AQUALINE RO GAMA SERIES

Brackish water reverse osmosis systems (BWRO) are industrial and commercial water purification systems designed specifically to treat brackish water. These systems utilize the process of reverse osmosis (RO) to remove impurities, salts, and other contaminants from brackish water beside the present of well designed pre-treatment, making it suitable for various industrial and commercial applications.

BWRO systems are designed to handle brackish water with a higher salinity level. The TDS level of brackish water typically falls between 2,000 ppm to 10,000 ppm. The system is designed to handle higher pressure than tap water RO.

Our full line of brackish water reverse osmosis systems are available with a wide range of capacities with our standard models (Gama 180 - Gama 9680)

RECOMMENDED FEED WATER LIMITS

Feedwater TDS :	2000 - 10,000 ppm
Feedwater Pressure:	2 - 5 bar
Feedwater pH Range:	6 -8
Silica (SiO ₂) Tolerance:	25 ppm max
Feedwater Temperature:	10 °C - 30 °C
Iron (Fe) Tolerance:	0.05 ppm (without ASC dosing) 0.2 ppm (with ASC dosing)

EXTRA OPTIONS

- Custom designs for higher capacities.
- History of alarms info records.
- Automatic rinsing-CIP systems.
- Touch screen control panel.
- CS/SS304 stainless steel skid.

AQUALINE WATER TREATMENT SYSTEMS
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2 - MEMBRANE TECHNOLOGY

2-3 SEAWATER REVERSE OSMOSIS SYSTEMS

Seawater is the water found in the earth's oceans and seas. It is the salty water that covers about %71 of the planet's surface and is one of the primary components of the hydrosphere. Seawater differs from freshwater, which is found in rivers, lakes, and underground aquifers, in that it has a much higher concentration of dissolved salts and minerals.



FEATURES

- Standard capacities 180 - 1,500 CMD.
- Compact design.
- Easy and auto operation.
- Easy maintenance.
- CF approved.

ADVANTAGES

- Up to 90 - 99 % removal of water inlet contaminants.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Agriculture.
- Water bottling industry.
- Domestic use.
- Commercial and industrial use.
- Municipal water supply.
- Boiler feed water.
- Hotels and resorts.
- Potable drinking water.
- Agricultural and irrigation.
- Municipal water treatment.
- Food and beverage industries.
- Desalinator for boat.
- Island-Based businesses.
- Cargo ships.

AQUALINE RO TETRA SERIES

Seawater treatment systems, are a set of processes and technologies used to remove salt and other impurities from seawater. We provide a selection of industrial and commercial seawater reverse osmosis systems that are designed to meet your desalination needs.

SWRO systems are designed to handle Seawater with a higher salinity level that cannot be treated with standard brackish RO systems. The TDS level of seawater is typically more than 10,000 ppm. The system is designed to handle higher pressure than brackish water RO.

Our full line of SWRO systems are available with a wide range of capacities with our standard models (Tetra Px 1280 - Tetra Tc 3080).

RECOMMENDED FEED WATER LIMITS

Feedwater TDS :	>10.00 ppm
Feedwater Pressure:	2 - 5 bar
Feedwater pH Range:	6 - 8
Silica (SiO ₂) Tolerance:	25 ppm max
Feedwater Temperature:	10 °C - 30 °C
Iron (Fe) Tolerance:	0.05 ppm (without ASC dosing) 0.2 ppm (with ASC dosing)

EXTRA OPTIONS

- Custom designs for higher capacities.
- Automatic rinsing CIP system.
- History of alarms info records.
- Automatic rinsing CIP system.
- Touch screen control panel.
- CS/SS304 stainless steel skid.

-2 MEMBRANE TECHNOLOGY

2-4 ULTRAFILTRATION SYSTEMS (UF)

Ultrafiltration (UF) systems are a type of water treatment technology used to separate suspended particles, colloids, and high molecular weight substances from water. UF is a membrane-based filtration process that uses semi-permeable membranes with small pore sizes to remove contaminants while allowing water and low molecular weight solutes to pass through.



FEATURES

- Standard capacities 1- 5,000 CMD.
- UF modules (PVC).
- Stainless steel backwash pump.
- Compact design.
- Easy and auto operation.
- Short lead time.
- Plug and play.
- CF approved.

ADVANTAGES

- Reduce suspended solids
- Remove large microns.
- High tolerance to changing temperatures.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- RO pretreatment.
- Drinking water treatment.
- Water recycling and reuse.
- Grey water treatment.
- Surface water treatment.
- Industrial waste treatment.

AQUALINE UF SYSTEMS

Aqualine engineers and manufactures the most advanced Ultrafiltration (UF) systems for water treatment purposes that fit the needs of different industries and application.

Ultrafiltration systems eliminate the need for clarifiers and multimedia filters. Standard design is based on a UF module with outside-in flow configuration which allows for less plugging, higher solids loading, higher flow area and easy cleaning.

The water filtration efficiency achieved by UF systems are around 250 times greater than conventional media filtration systems. These plants are generally considered to be of low cost, easy to operate, carry no contaminate residue, and have considerably high recovery ratio.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Chemically enhanced backwash (CEB).
- Membrane cleaning skid (CIP).
- Blower (for backwash).
- Touch screen control Panel.
- CS/SS304 stainless steel skid.

2 - MEMBRANE TECHNOLOGY

2-4 ULTRAFILTRATION SYSTEMS (UF)

Ultrafiltration (UF) systems are a type of water treatment technology used to separate suspended particles, colloids, and high molecular weight substances from water. UF is a membrane-based filtration process that uses semi-permeable membranes with small pore sizes to remove contaminants while allowing water and low molecular weight solutes to pass through.



FEATURES

- Standard Capacities 1 - 1,000 CMD.
- High operating temperature (up to 45°C) and feed pressure (up to 100 psig).
- Compact design .
- Easy and auto operation.
- Short lead time.
- Plug and play.
- CF approved.

ADVANTAGES

- Remove Ion 90 – 95 %.
- High-Purity water.
- Deliver high performance at low Life-Cycle costs.
- Energy efficient.
- Purified water suitable for drinking and Irrigation.
- Eco-Friendly systems.

APPLICATIONS

- Laboratory water.
- Power generation.
- Cosmetics.
- Boiler feed.
- Pharmaceutical.
- Chemical production.

AQUALINE EDI SYSTEMS

Our high-quality modules continually produce ultra-pure water up to 18.2MΩ/cm. EDI may be run continuously or intermittently. Electrodeionization is a green solution for deionizing water. With no expensive chemical upkeep and virtually no down-time, electrodeionization units are the future in deionization.

EDI modules are on average miniature in size and weight in terms of per unit flow in the market. EDI water purification systems do not require shutdowns for replacing resin beds or for resin regeneration using chemicals. As a result the EDI minimizes water quality upsets and operating costs.

EDI has become the solution of choice, lower operating expenses and fewer maintenance requirements makes EDI the cost effective choice. These systems also require minimal energy to provide steady, and persistent ultra pure water. EDI water purification systems utilize compact footprints, which benefits water treatment plants in using less available space to provide the same amount of water.

EXTRA OPTIONS

- Custom designs for higher capacities.
- A complete, power supply assembly.
- Flow and quality monitoring instrumentation.
- Modular system more flexible, easy to expand.
- CS/SS304 stainless steel skid.
- Touch screen control panel.



3-FILTRATION SYSTEMS

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-3 FILTRATION SYSTEMS

Filtration systems are a critical component of the purification process. They are designed to remove suspended solids, fine particles, and impurities from raw water sources to produce clean and safe drinking water. More over it use as pre-treatment to protect the reverse osmosis systems.



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FEATURES

- Standard capacity 1 - 5,000 CMD.
- FRP, epoxy coated carbon steel- maximum operating pressure is 6 Bar.
- Timer controlled back wash.
- Pneumatically actuated butterfly valves.
- Manual valves.
- Bottom and top lateral diffuser.
- PVC-U material surface piping.
- Sample taps and manometers In The Inlet and outlet of the system.
- Electronic card or siemens logo control panel.
- Electric 220V /50 Hz /1 pH.

ADVANTAGES

- Remove total suspended solids (TSS)
- Remove particles of various sizes & Insoluble materials in water.
- Turbidity reduction.
- Automatic systems.
- Long filter life.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation Systems.
- Drinking water treatment.
- Wastewater Treatment.
- Beverage and food industry.

3- FILTRATION SYSTEMS

3-1 MULTIMEDIA SAND FILTERS

Aqualine multimedia sand filtration systems are efficient units used to remove total suspended solids (TSS), particles of various sizes and insoluble materials in water.

In addition to retaining the suspended solids, sand filters also protect the units to be installed after it from sediment and coarse particles. The most important parameters of this filtration process are water flow and media selection. Quartz and anthracite in different diameters and sizes are used in multimedia-sand filtration units that provide treatment in different micron sizes.

Aqualine multimedia sand filters may offer customization options to suit specific water quality challenges and flow rates. Different combinations of filter media can be selected based on the type of contaminants present in the water.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Stainless steel tank.
- Differential pressure control.
- Vessel orientation is vertical or horizontal.
- Galvanised surface piping.
- Touch screen control panel.
- Electrical actuated valves.
- Pneumatical actuated valves.

FEATURES

- Standard capacity 1 - 5,000 CMD.
- FRP, Epoxy coated carbon steel.
- Maximum operating Pressure Is 6 Bar.
- Timer controlled back wash.
- Pneumatically actuated butterfly valves.
- Bottom and top lateral diffuser.
- PVC-U material surface piping.
- Sample taps and manometers in the inlet and outlet of the system.
- Electronic card or siemens logo control panel.
- Electric 220V /50 Hz /1 pH.

ADVANTAGES

- Color and turbidity reduction.
- Removes free chlorine, free ozone, Fatty acids and humic acid.
- Automatic systems.
- Long filter life.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food industry.

-3 FILTRATION SYSTEMS

3-2 ACTIVATED CARBON FILTERS

Activated carbon filtration system is used for color, taste, odor, and organic removals in drinking and utility waters. In addition, it removes unwanted contaminants such as free chlorine, free ozone, fatty acids and humic acid from the water.

Thanks to the very large surface areas of the activated carbon media, it accumulates impurities on itself by means of adsorption, and due to its structure, it is not possible to remove solid substances from its microscopic pores by backwashing. Therefore, in order for the activated carbon units to be used for a long time, they must pass through appropriate mechanical filtration and pre-treatment units.

Customization is a powerful aspect of aqualine's activated carbon filters. We understand that every water source and purification requirement is unique. That's why we offer a range of customization options to address specific water quality challenges and flow rate needs.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Stainless steel tank.
- Differential pressure control.
- Vessel orientation is vertical or horizontal.
- Electrical actuated valves.
- Pneumatically actuated valves.
- Galvanised surface piping.
- Touch screen control panel.

FEATURES

- Standard capacity 1 - 5,000 CMD.
- FRP, epoxy coated carbon steel .
- Maximum operating pressure is 6 bar.
- Timer controlled back wash.
- Bottom and top lateral diffuser.
- PVC-U material surface piping.
- Sample taps and manometers in the inlet and outlet of the system.
- Electronic card or siemens logo control panel.
- Electric 220V /50 Hz /1 pH.
- CE approved.

ADVANTAGES

- Remove special contaminants.
- Automatic systems.
- Long filter life.
- Cost saving .
- Eco-Friendly.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment RO.
- Irrigation systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food industry.

3- FILTRATION SYSTEMS

3-3 AQUALINE SPECIAL MEDIA FILTER

AFM FILTER

AFM® is an inert, amorphous aluminosilicate (glass) manufactured by up-cycling postconsumer green and brown glass bottles and operated specifically for the production of activated glass water filtration media. AFM® is very popular for swimming pool filters, for water purification plants (gravity filters) and for industrial water treatment filters.

FILOX R FILTER

Filox R is a filter media that consists of 75 – 85% manganese dioxide. As the level of MnO2 is very high (Birm contains %1 MgO2, Greensand contains %3 MgO2), it is an excellent media to remove iron, manganese and hydrogen sulfide.

AG FILTER

Filter AG is a crystalline silica (quartz) media used for the reduction of suspended solids. It serves as an excellent alternative to traditional sand/silex, offering several advantages due to its lightweight nature and the irregular shape of its grains. It can also be used to filter oxidized iron following aeration, ozonation, or chlorination.

CRYSTAL-RIGHT FILTER

Crystal Right is a synthetic zeolite without impurities and with predefined grain sizes developed for the treatment of well water.

BIRM IRON FILTER

BIRM, is an efficient and economical media used for the reduction of dissolved iron and manganese from raw water supplies.

FEATURES

- Customizable logo and label.
- Optional end-caps available.
- Multiple sizes and filtration grades.
- High depth and efficient filtration.
- Compact, modular, and durable design.
- High flow capacity up to 60 CMH.
- CE certified quality.

ADVANTAGES

- Effectively removes solid particles and impurities.
 - Low pressure drop for efficient performance.
 - High stability and reliability under various conditions.
 - Long filter life reduces replacement frequency.
 - Cost-saving and eco-friendly design.
- Modular and flexible for various system requirements.
- Easy maintenance and quick installation.

APPLICATIONS

- RO pre-treatment and RO pre-filtration.
- Domestic and industrial water filtration.
- Swimming pools and bottled water filtration.
- Sea water desalination systems.
- General pre-treatment solutions for multiple sectors.

3-4 SUSPENDED SOLIDS REMOVAL UNITS

PALLAS PP CARTRIDGES FILTER

The Pallas Cartridge is a melt-blown polypropylene cartridge and is fully produced by the Pollet Water Group. The certified raw material, the flexibility of our own production and the possibility for personalization are just a few benefits of this new cartridge range.

HIGH FLOW CARTRIDGE FILTERS

The Styre system is designed for filtration system technology. We respond to market needs and requirements by emphasizing analytical applications, cartridge filter maintenance and protection. It offers high quality as well as low cost and operating costs. Our innovative patented designs allow easy and quick maintenance and reduce your failure time to the minimum, ensuring your system runs smoothly.



PALLAS PP CARTRIDGES FILTER

High flow CARTRIDGE Filters

FEATURES

- Replaceable bags, media beds, or automatic self-cleaning screens
- Wide filtration range (3000–1 µm)\ for coarse to fine solids removal
- Options for manual, backwash, or fully automatic operation
- Robust designs (steel, FRP, polymer) suitable for high flows and various water qualities.

ADVANTAGES

- Reliable suspended solids and turbidity reduction
- Low maintenance with long service life
- Options for continuous operation without shutdown.
- Protects downstream equipment (pumps, membranes, exchangers).

APPLICATIONS

- Pretreatment for RO, desalination, and ion exchange systems
- Industrial process water, cooling water, and boiler feed
- Municipal water, wastewater, irrigation, and swimming pools
- Protection in food, beverage, chemical, and oil & gas industries

3- FILTRATION SYSTEMS

3-4 SUSPENDED SOLIDS REMOVAL UNITS

BAG FILTER

A Bag Filter is a compact liquid filtration system where water passes through a porous bag housed in a vessel, trapping suspended solids. It offers high dirt-holding capacity, easy maintenance, and is suitable for coarse to fine filtration (1000–1 µm).

SEPARATOR FILTER

A separator filter (cyclonic separator) is a mechanical device that removes suspended solids and, in some cases, entrained liquids from water or process streams using centrifugal force. As fluid enters tangentially, solids and heavier particles are driven to the vessel walls and collected at the bottom, while clarified liquid exits from the top or side.

MECHANICAL FILTER

A mechanical filter is a pressure vessel filled with granular media (typically quartz sand, anthracite, or multilayer media) designed to remove suspended solids, turbidity, and particulate matter from water. Filtration occurs as water passes through the packed bed, with solids trapped within the media pores.

SELF-CLEANING FILTER

A self-cleaning filter is an automatic filtration unit that removes suspended solids from water and continuously cleans its screen or element without interrupting flow. Filtration occurs as water passes through a fine mesh, while accumulated particles are periodically removed via backflush or suction scanning.



4-ION EXCHANGE FILTERS

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-4 ION EXCHANGE FILTERS

Ion exchange filters are a type of water treatment system designed to remove specific ions (charged particles) from water by replacing them with other ions. These filters use a resin or exchange material that is capable of exchanging ions with the water passing through the system.



www.aqualine-me.com

FEATURES

- Stander capacity 1 - 5,000 CMD.
- Single systems
- Epoxy painted carbon steel and FRP Tanks.
- Aqualine brand cationic resin.
- Maximum operating pressure is 6 bar.
- Manual valves.
- Bottom collector structure is lateral diffuser.
- PVC material surface piping.
- Electronic card or siemens logo control panel.
- Electric 220V / 50 Hz / 1 pH.
- CE approved.

ADVANTAGES

- Removing scale-forming minerals like calcium and magnesium.
- Longer life span.
- Saving cost.
- Low maintenance cost.
- Less water spotting.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation Systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food Industry.

4-ION EXCHANGE FILTERS

4-1 AQUALINE SOFTENER SYSTEMS

When water is hard, it can clog pipes, damage boilers, heat exchangers, and many other devices. Water softener system can prevent these negative effects. Hard water causes a higher risk of lime scale deposits in industrial, commercial and household water systems.

Through the process of ion-exchange, water softener systems work in removing magnesium and calcium found in the water by replacing them with sodium ions. As the hard water is introduced in the mineral tank, it meets a bed of resin beads that grab hold of the mineral ions, which effectively releases the sodium ions.

Water softener systems are capable of working to their fullest capacity for up to 20 years. Our water softeners are designed for maximum durability and reliability in regards to system malfunction.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Duplex, triplex systems.
- Stainless steel tank.
- Timer controlled.
- Volum control.
- Total hardness monitor and control.
- Top mountin aalve.
- Electric sctuated butterfly valves.
- Pneumatic actuated butterfly valves.
- Galvanised surface piping.
- Touch screen control panel.

AQUALINE WATER TREATMENT SYSTEMS
Fidnet Water Group

FEATURES

- Stander capacity 1 - 5,000 CMD.
- Single systems.
- Epoxy painted carbon steel and FRP tanks.
- Variety of pesins like (As-Fe-Mn, birm, aquamandix).
- Maximum operation pressure ls 6 bar.
- Manual valves.
- Bottom collector structure is lateral diffuser.
- PVC material surface piping.
- Electronic Card or siemens logo control panel.
- Electric 220V / 50 Hz / 1 pH.
- CE approved.

ADVANTAGES

- Reduces Iron and manganese from water.
- Longer life span.
- Saving cost.
- Low maintenance cost.
- Less water spotting.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food industry.

-4 ION EXCHANGE FILTERS

4-2 AQUALINE METAL REMOVAL SYSTEMS

Specialized water treatment solution designed to remove arsenic, iron, and manganese contaminants from water sources. These three elements are often found in natural water sources and can pose health risks and aesthetic issues when present in elevated concentrations.

Iron and manganese ions dissolved in water cause an increase in turbidity, color and increase in bacterial contamination. Since it is toxic even in very low concentrations, removal of arsenic, iron and manganese is important in the food, textile, plastic, paper and leather industries as well as drinking water.

With the special minerals used in this filter, heavy metals are oxidized and discharged through backwashing with water. These units, which we offer with surface piping, operate fully automatically with the use of electric or pneumatic actuators.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Duplex, triplex systems.
- Stainless steel tank.
- Timer controlled.
- Volum control.
- Top mountin valve.
- Galvanised surface piping.
- Touch screen control panel.
- Electric actuated butterfly valves.
- Pneumatic actuated butterfly valves.

FEATURES

- Stander capacity 1 - 5,000 CMD.
- Single systems.
- Epoxy painted carbon steel and FRP tanks.
- Mixed bed resin.
- Maximum operation pressure is 6 bar.
- Manual valves.
- Bottom collector structure is lateral diffuser.
- PVC material surface piping.
- Electronic card or siemens logo control panel.
- Regeneration and backwashing
- Electric 220V / 50 Hz / 1 pH.
- CE approved.

ADVANTAGES

- Removing almost all Ions.
- Long filter life.
- Cost saving.
- Eco-friendly.

APPLICATIONS

- Laboratories.
- Pharmaceutical and biotechnology.
- Electronics manufacturing.
- Power plants.
- Chemical manufacturing.
- Food and beverage industry.

4-ION EXCHANGE FILTERS

4-3 AQUALINE DEIONIZATION SYSTEMS (DI)

Deionization systems work by replacing negative and positive molecules in the water with hydrogen (positive) and hydroxyl (negative) molecules. In effect, organic substances are removed through filtration which improves the quality of the water and prevents the formation of scale deposits forming. For this reason, deionized water is one of the most preferred options of use in factories and manufacturing facilities.

Our deionized water systems are rugged, pre-engineered, pre-assembled, standardized units that minimize expensive installation and start-up costs. We have designed our di water system to maximize the efficiency and repeatability of the unit during the service and regeneration modes.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Duplex, triplex systems.
- Stainless steel tank.
- Timer controlled.
- Volum control .
- Top mountin valve.
- Automatic controlled.
- Galvanised surface piping.
- Touch screen control panel.
- Electric actuated butterfly valves.
- Pneumatic actuated butterfly valves.

FEATURES

- Stander capacity 1 - 5,000 CMD.
- Single systems.
- Epoxy painted carbon steel and FRP tanks.
- Aqualine nitrate resin.
- Maximum operation pressure is 6 bar.
- Manual valves.
- Bottom collector structure is lateral diffuser.
- PVC material surface piping.
- Electronic card or siemens logo Control panel .
- Regeneration and backwashing .
- Electric 220V / 50 Hz / 1 pH.
- CE approved.

ADVANTAGES

- Reduce the concentration of nitrates in water.
- The systems can be tailored to specific applications and nitrate levels.
- Ensures that drinking water is safe For consumption.
- Long filter life .
- Cost saving.
- Eco-friendly.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food industry.

4-ION EXCHANGE FILTERS

4-4 AQUALINE NITRATE REMOVAL SYSTEMS

Nitrates (NO₃⁻) are chemical compounds composed of nitrogen and oxygen, and they can occur naturally in groundwater or be introduced through human activities like agricultural runoff and sewage discharge.

Aqualine nitrate removal systems designed to reduce the concentration of nitrates in drinking water and / or wastewater. We have designed systems to maximize the efficiency and repeatability of the unit during the service and regeneration modes.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Duplex, triplex systems.
- Stainless steel tank.
- Timer controlled.
- Volum control.
- Top mountin valve.
- Electrically actuated valves.
- Galvanised surface piping.
- Touch screen control panel.
- Electric actuated butterfly valves.
- Pneumatic actuated butterfly valves.

FEATURES

- Standard capacity 1 - 5,000 CMD.
- Single systems.
- Epoxy painted carbon steel and FRP tanks.
- Aqualine dolomite filtration media.
- Maximum operation pressure is 6 bar.
- Manual valves.
- Bottom collector structure is lateral diffuser.
- PVC material surface piping.
- Electronic card or siemens logo control panel.
- Regeneration and backwashing.
- Electric 220V / 50 Hz / 1 pH.
- CE approved.

ADVANTAGES

- Adjusting ph in water.
- Removal of a limited amount of Iron.
- Long filter life .
- Cost saving.
- Eco-friendly.

APPLICATIONS

- Municipal water treatment.
- Industrial processes.
- Chemical processing.
- Ro Pre-treatment.
- Irrigation systems.
- Drinking water treatment.
- Wastewater treatment.
- Beverage and food industry.

4-ION EXCHANGE FILTERS

4-5 AQUALINE REMINERALIZATION SYSTEMS

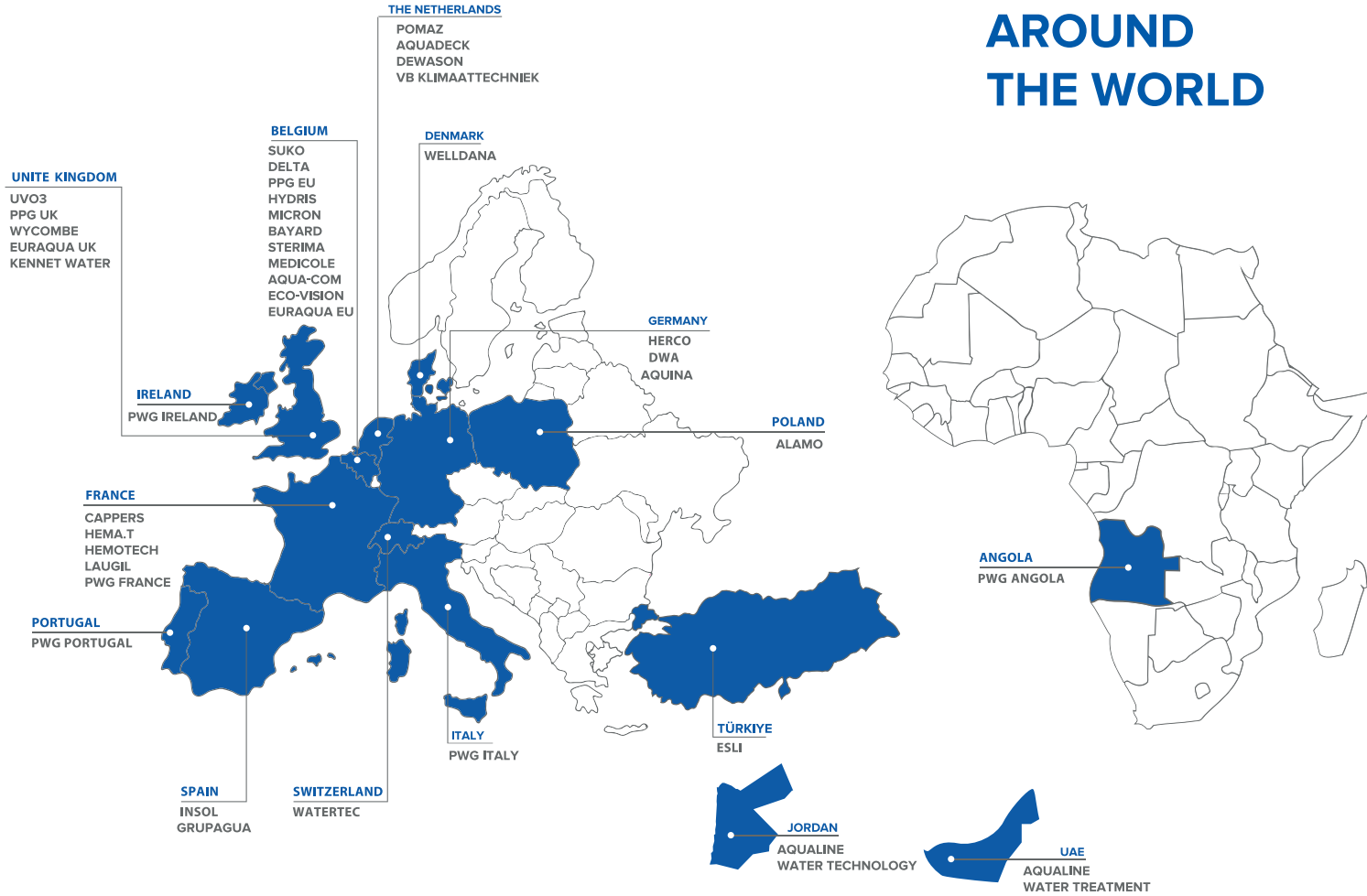
Dolomite is a naturally occurring mineral composed of calcium magnesium carbonate, and its unique properties make it useful for certain water treatment applications. A remineralization system is a type of water treatment system that utilizes dolomite media to enhance water quality by addressing issues related to pH and mineral content.

Product water with a low pH is passed through the remineralization system, increasing the quantities of calcium, magnesium and carbonate in the water. By doing so, the remineralization process is completed. Remineralizatio systems are capable of working to their fullest capacity for up to 20 years. Our water filters are designed for maximum durability and reliability in regards to system malfunction.

EXTRA OPTIONS

- Custom designs for higher capacities.
- Duplex, triplex systems.
- Stainless steel tank.
- Timer controlled.
- Volum control.
- Top mountin valve.
- Automatic controlled.
- Electrically actuated valves.
- Galvanised surface piping.
- Touch screen control panel.
- Electric actuated butterfly valves.
- Pneumatic actuated butterfly valves.

PWG AROUND THE WORLD



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Join our mission. **Make water count** .