AQUALINE

Pollet Water Group

WATER TREATMENT SYSTEMS

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Pollet Water Group

AQUALINE WATER TECHNOLOGY, a leader in providing **water and wastewater treatment solutions.**We started from **Türkiye by ESLI,** then we expanded our operations with a **regional office in Amman, Jordan,** and a **warehouse in Dubai, UAE,** to better serve the Middle East region. We cover industrial, commercial, medical, and domestic sectors. With a strong focus on B2B markets, we deliver solutions to meet client needs and commitment to environmental sustainability.

We are part of **Pollet Water Group** and can therefore count on the support and strength of this **international European business group.** We work through the Pollet Water Group network with **5 manufacturers, 23 distribution offices** and **2 engineering companies.** We draw on over **1450 employees,** an extensive distribution network with daily shipments, 7/24 delivery, and export capability worldwide.

AQUALINE operates through **four key departments** working together: **distribution, engineering, projects, and production.** Together, they ensure efficient operations and consistently deliver high-quality solutions to our clients.

The Distribution Department ensures the timely availability of components and distributing high-quality parts that meet European standards and exclusively representing trusted brands. In-house manufacturing of certain equipment, combined with strategically located warehouses in Turkey, Belgium, China, and the UAE, further supports exceptional service and prompt delivery.

www.aqualinemena.com

The Engineering Department is staffed by skilled specialists who provide comprehensive, end-to-end services, including consultancy, system design, installation, testing, and ongoing operational support. The team's dedication ensures that projects are executed precisely to client specifications and timelines, while upholding the highest standards of quality and performance.

The Project Department is Working in tandem with Engineering department to transforms designs into fully executable projects that align with client requirements, budget, and manufacturing capabilities. The team ensures a deep understanding of client needs and financial constraints, converting them into practical, actionable plans. They oversee the pricing stage, select appropriate brands, and coordinate closely with the Production Department to arrange workflow and schedule project delivery.

The production Department is centered in our main manufacturing facilities located in Turkey and the UAE, we operate across five factories specializing in both industrial and domestic systems, supported by a team of over 900 skilled employees. Our facilities are equipped with state-of-the-art machinery, including robotic machines for welding and advanced material testing equipment. We maintain rigorous quality control measures and have been awarded key international certifications, including ISO and CE.

With a proven track record of **successful project** execution **across the Middle East, North Africa,** and various **African regions,** we bring unmatched expertise and experience to every project we undertake.

WASTEWATER TREATMENT SYSTEMS

Aqualine provides a wide range of wastewater treatment systems with technologies that allow you to optimize your water consumption and utilize alternative water sources to reduce operating and energy costs and improve your production process.

We can conserve the water resources by treating and recycling the wastewater by using our wastewater treatment systems (MBBR, MBR, SBR) to be ready for uses like irrigation, landscaping, industry, toilet flushing and other applications.

We supply standard solutions as well as custom-made concepts. Our engineering department can customize products. We have successfully implemented hundreds of projects in the Middle East and North Africa region additional to some regions in Africa.

Our professional engineering team enable us, as a subcontractor to handle any project by providing full technical support & after-sales services.

1- WASTEWATER TREATMENT SYSTEMS

1-1 CONVENTIONAL ACTIVATED SLUDGE

CAS is a widely used biological wastewater treatment process that utilizes microorganisms to break down organic matter and remove pollutants from wastewater. It is one of the most common and traditional methods for treating both domestic and industrial wastewater.

FEATURES

- Standard Capacities 10,000 CMD.
- Medium Footprint.
- Medium Energy Consumption.
- Easy Operation.
- Clarifire Sedimentation.
- Manual Screen Included.
- Medium CapEx & Medium OpEx.

ADVANTAGES

- Excellent Water Quality Acceptable for Irrigation .
- High Efficient Reduction of BOD, COD, TSS.
- Reduce Public Health Risk.
- Improving Sustainability.
- Low Maintenance Cost.
- Provide Clean & Safe Water For Different Applications.
- Avoiding Expensiv Non-Compliance Fees.
- Reducing Environmental Impact .
- Reducing Demand & Stress On Freshwater Supply.
- Eco Friendly Systems.

APPLICATIONS

- Municipal Wastewater Treatment.
- Huge Water Treatment Plant.
- Industrial Wastewater Treatment .
- Industrial Complexes.

AQUALINE CAS SYSTEMS

The activated sludge process is a conventional biological process that is used for reduction of organic matter present in the wastewater. It basically involves the oxidation of carbonaceous biological matter, for reduction of the organic pollutants.

The process takes advantage of aerobic micro-organisms that can digest organic matter in wastewater, and are then wasted as sludge, thereby removing the non-active microbes from the system. The supernatant from this process can be further clarified in a secondary clarifier, thus providing an effective reduction of pollutant parameters.

This basic process can also be coupled with Anaerobic / anoxic process for reduction of nitrogenous matter or phosphate. Part of the settled material, the sludge, is returned to the aeration system to maintain the active microbial mass for degradation of the incoming wastewater entering the tank.

All of our systems have been able to produce treated water with very low organic pollutant (BOD, COD, etc.) concentrations, well within what is required to meet the client's discharge specifications. Many of these installations have been designed as extended aeration systems.

EXTRA OPTIONS

- Higher Capacity As Special Design.
- Primary Sedimentation.
- Reduce Of TSS, TN, TP, NH3-N.
- Grit Removal.
- Oil & Grease Removal.
- Tertiary Treatment.
- Sludge Treatment.
- Advance Primary Treatment.
- Odor Control.
- Disinfection Options.
- Automatic Screen.

1-2 MOVING BED BIOFILM REACTOR SYSTEMS

A Moving Bed Biofilm Reactor (MBBR) is a type of wastewater treatment process used to remove organic and inorganic pollutants from water. It falls under the broader category of biological wastewater treatment methods and is considered an advanced and efficient technology for treating various types of wastewater.

FEATURES

- Standard Capacities 4,000 CMD.
- Containerized Systems Up To 500 CMD Per Unit.
- Low Energy Consumption.
- Separate Lamella Clarifier.
- Manual Screen Included.
- Medium CapEx & Low OpEx.
- Low Footprint.
- Easy Operation.

ADVANTAGES

- Excellent Water Quality Acceptable For Irrigation.
- High Efficient Redution Of BOD,COD.
- Reduce Public Health Risk.
- Improving Sustainability.
- Low Maintenance Cost.
- Provide Clean & Safe Water For Different Applications.
- Avoiding Expensive Non - Compliance Fees.
- Reducing Environmental Impact .
- Reducing Demand & Stress on Freshwater Supply.
- Eco Friendly Systems.

APPLICATIONS

- Municipal Wastewater Treatment .
- Industrial Wastewater Plants.
- Small & Medium Scale Facilities.
- Remotely Containerized Units.
- Emergency Units.
- Residential Complexes.
- Industrial Complexes.

AQUALINE MBBR SYSTEMS

An MBBR system is an aerobic biological process in which the degradation of organic matter is carried out by aerobic bacteria inside a moving bed biofilm reactor.

Moving bed MBBR reactors use biofilm-covered plastic carriers to break down organic waste. These carriers are submerged in the biological reactor and, through their movement, increase the performance and purification capacity of the MBBR system without having to increase the size of the reactor.

What makes our moving bed biofilm reactors an outstanding process is that all the microorganisms needed to remove the pollutant load are submerged in the reactor attached to the plastic carriers. Thanks to this system, the only biomass that needs to be removed from the system is that which has been detached from the carriers and that which is in suspension in the already treated waste effluent.

EXTRA OPTIONS

- Higher Capacity As Special Design.
- Efficient Reduction Of TSS, TN, TP, NH3-N.
- Tertiary Treatment.
- Sludge Treatment.
- Primary Sedimentation.
- Advance Primary Treatment .
- Grit Removal.
- Oil & Grease Removal.
- Automatic Screen.
- Disinfection Options.
- TSE (Treated Sewage Effluent).
- Analyzer Meters.

1-3 MEMBRANE BIOREACTORS SYSTEMS

Membrane bioreactors, also known as MBR systems, are aerobic activated sludge biological reactors, which combine the biological degradation process, known as "activated sludge", with solid-liquid separation by membrane filtration. These membranes can be either hollow fiber or flat membranes.

FEATURES

- Standard Capacities 4,000 CMD.
- Containerized Systems Up To 200 CMD Per Unit.
- Medium Energy Consumption.
- Medium Operation.
- Membrane For Separation.
- Automatic Backwash.
- Chemical Cleaning.
- High CapEx & High OpEx.
- Low Footprint.

ADVANTAGES

- Excellent Water Quality Acceptable For Reuse.
- Very High Efficient Reduction Of BOD, COD, TSS.
- Reduce Public Health Risk.
- Improving Sustainability.
- Low Maintenance Cost.
- Provide Clean & Safe Water For Different Applications.
- Avoiding Expensive Non- Compliance Fees.
- Reducing Environmental Impact .
- Reducing Demand & Stress On Freshwater Supply.
- Eco Friendly Systems.

APPLICATIONS

- Municipal Wastewater Treatment
- Industrial Wastewater Plants.
- Small & Medium Scale Facilities.
- Remotely Containerized Units.
- Industrial Complexes.

AQUALINE MBR SYSTEMS

Our MBR bioreactors maximize efficiency and performance because they employ advanced ultrafiltration membrane technology as the separation method. Thanks to this technology, the biomass concentration inside the reactor is much higher than that of conventional clarifier reactors.

In these systems, microorganisms break down organic matter in the wastewater, while ultrafiltration or other types of membrane filtration are used to separate the treated water from the activated sludge or biomass. This results in high-quality effluent that can be reused or discharged into the environment.

We design, manufacture and install membrane bioreactors for the treatment domestic and industrial water. Aqualine MBR Systems can be provided either as standard packages or bespoke designs to suit the nature of the wastewater and existing site infrastructure.

EXTRA OPTIONS

- Higher Capacity As Special Design.
- Efficient Reduction Of TSS, TN, TP, NH3-N.
- Primary Sedimentation.
- Advance Primary Treatment.
- Grit Removal.
- Oil & Grease Removal.
- Automatic Screen.
- Disinfection Options.
- TSE (Treated Sewage Effluent).
- Analyzer Meters.

1-4 SEQUENCING BATCH REACTOR SYSTEMS

A Sequencing Batch Reactor (SBR) is a type of wastewater treatment process that operates in batch mode. It's used for the biological treatment of wastewater and is designed to handle both biological treatment and sedimentation in a single reactor vessel.

FEATURES

- Standard capacities 2,000 CMD.
- Containerized Systems Up To 200 CMD Per Unit.
- Low Energy Consumption.
- Manual Screen Included.
- Low CapEx & Low OpEx.
- Low Footprint.
- Easy Operation.

ADVANTAGES

- Good Water Quality Acceptable For Public Drainage Networks & Sewage.
- Medium Efficient Reduction Of BOD, COD,TSS.
- Reduce Public Health Risk.
- Improving Sustainability.
- Low Maintenance Cost.
- Provide Clean & Safe Water For Different Applications.
- Avoiding Expensive Non- Compliance Fees.
- Reducing Environmental Impact.
- Reducing Demand & Stress On Freshwater Supply.
- Eliminating The Need To Transport Wastewater.
- Eco Friendly Systems.

APPLICATIONS

- Municipal Wastewater Treatment
- Small Water Treatment Plants.
- Small Scale Facilities.
- Remotely Containerized Units.
- Emergency Units.
- Residential Complexes.

AQUALINE SBR SYSTEMS

Aqualine SBR can be used for the removal of pollutants including COD, BOD, ammonia, nitrate, and phosphorus. Once the cycles are complete, the treated effluent will be discharged directly into the environment or to the sewer. The operation of the SBR process is simplified due to the instrumentation and controls that are included with each system. Each biological and sedimentation process is monitored and can be controlled remotely ensuring efficient treatment through each cycle.

Sequencing Batch Reactor (SBR) is an advanced technology that uses a fill and draws activated sludge system for wastewater treatment. It is best for treating both industrial and municipal wastes. The main difference between SBR technology and other STP technologies is that SBR uses a single batch reactor/single tank to process the equalization, aeration, and clarification compared to other technologies that use different batch reactors for various processes.

SBR technology is considered to be high-performing solutions for wastewater treatment. It requires minimum maintenance and has low costs. It can handle continuous batch operations successfully.

EXTRA OPTIONS

- Odor Control.
- Disinfection Options.
- Analyzer Meters.

1-5 INDUSTRIAL TREATMENT SYSTEMS

Industrial wastewater treatment is defined as the process used for treating wastewater produced by almost any industry as a by-product. Industrial wastewater treatment covers the mechanisms and processes used to treat wastewater that has been contaminated in some way by biological or chemical activities.

FEATURES

- Standard Capacities 4,000 CMD.
- Treatment Processes Can Be Tailored To Specific Types Of Industrial Wastewater.
- Systems Can Be Scaled Up Or Down Based On The Volume Of Wastewater.
- Modern Systems Can Be Highly Automated .
- Ensures Wastewater Discharges Meet legal Standards.

ADVANTAGES

- Reduces Pollution & Protect Water Bodies.
- Recovers Valuable By-Products & Reduces Waste.
- Improves The Overall Efficiency Of Industrial Operations .
- Cost Savings.

APPLICATIONS

- Municipal Wastewater Treatment.
- Industrial Wastewater Plants.
- Chemical Manufacturing.
- Food and Beverage Industry.
- Oil & Gas.

AQUALINE INDUSTRIAL WASTEWATER SYSTEMS

Industrial wastewater treatment is essential for maintaining environmental quality and regulatory compliance. By leveraging various treatment methods and advanced technologies, industries can manage their wastewater effectively and sustainably.

TYPES OF INDUSTRIAL WASTEWATER TREATMENT

1- Biological Treatment

- **Aerobic Treatment:** Uses bacteria that thrive in oxygen-rich environments to break down organic matter.
- **Anaerobic Treatment:** Uses bacteria that function in oxygen-free environments to treat wastewater.
- **Activated Sludge:** Utilizes a mix of wastewater and biological sludge, aerated to promote microbial growth.

2-Chemical Treatment

- **Coagulation and Flocculation:** Adds chemicals to form larger particles from smaller ones, which can then be removed.
- **Neutralization:** Adjusts the pH of the water to a neutral level.
- **Oxidation:** Uses chemicals like chlorine or ozone to oxidize pollutants.

EXTRA OPTIONS

- Zero Liquid Discharge (ZLD).
- Energy Recovery.
- Sludge Management.
- Remote Monitoring & Control.
- Green Technologies.

1-6 GREY WATER TREATMENT SYSTEMS

Greywater treatment systems are designed to collect, treat, and reuse wastewater generated from non-toilet plumbing fixtures such as sinks, showers, bathtubs, and laundry machines. This type of wastewater is referred to as "greywater" because it is not heavily contaminated with human waste compared to "blackwater" from toilets.

FEATURES

- Standard Capacities 1,000 CMD
- Proven Track Record.
- Plug & Play Installation.
- Clog-Free Filtration.
- Compact Footprint.
- Modular Design.
- Low Installation Costs.

ADVANTAGES

- Flexible In Operation.
- Effective Organic Matter Removal
- Environmental Sustainability .
- Energy Efficiency.
- Stable Process.
- Eco Friendly Systems.
- Clean Water Suitable For Irrigation.
- Low Life Cycle Cost.

APPLICATIONS

- Large Irrigation Systems.
- Toilet Flushing.
- Laundry.
- Cooling Towers.
- Construction.

AQUALINE GREY WATER TREATMENT SYSTEMS

Wastewater from domestic bathrooms, laundries, and kitchen outlets is called grey water. Statistics says that around 30 to 50 percent of the wastewater discharged to the sewer is contributed by grey water. Therefore, by recycling it, we can significantly reduce the load on the infrastructure. With Aqualine grey water treatment Plant, you achieve excellent efficiency and productivity by recycling wastewater.

Typically, grey water may be contaminated with a wide range of insoluble and soluble substances such as detergent, dirt, lint, human hair, saliva, skin and other impurities. Whether it is an organic contaminant or inorganic, particulate or microbial, and surfactant or detergent; appropriate grey water recycling systems can help get the desired water quality.

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- Fully Automated System.
- Online Remote Monitoring.
- Nitrogen and Phosphorus Removal.
- Pre-treatment Stage [such as screening or grit removal] .
- Integrated Filtration For Further Polish.
- Odor Control.
- Sludge Treatment.

2- WASTEWATER TREATMENT EQUIPMENT

2-2 WASTEWATER SCREENS : COARSE SCREENS

Wastewater screens are used in the treatment of wastewater to remove large solid particles from the water before it undergoes further treatment. These screens are a critical component of the preliminary treatment process in wastewater treatment plants.

Basket Screen

Rake Bar Screen

Arc Screen

FEATURES

- Standard Spacing < 6 mm.
- High Screening Efficiency.
- Mechanical Cleaning Systems.
- SS304 Stainless Steal.
- High Flow Capacity.
- Adjustable Speed and Operation.
- Compact Design.
- Energy Efficiency.
- Easy Maintenance & Access.

ADVANTAGES

- Remove Large Debris.
- Reducing The Load On Secondary Treatment Processes.
- Reduces Manual Labor & Ensures Consistent Debris Removal.
- Enhances The Performance Of Biological & Chemical Treatment Stages.
- Reduces Wear & Tear On Downstream Equipment.
- Prevent Clogging.
- Reduces Maintenance Costs.

APPLICATIONS

- Industrial Wastewater Treatment.
- Municipal Wastewater Treatment.
- Stormwater Treatment.
- Combined Sewer Overflows (CSOs).

AQUALINE COARSE SCREENS

Coarse screens are the first line of defense in the wastewater treatment process, removing large objects like rags, sticks, plastics, and other debris that could damage equipment and obstruct flow in the treatment process.

COARSE SCREEN TYPS

1- Basket Screen
A basket screen is a filtration device with a basket-shaped mesh used to capture debris from liquids. It's commonly used in pipelines and channels to protect pumps and equipment from damage.

2- Raked Bar Screens
This raked bar screen is fitted with several revolving rakes which removes the debris from the bottom of the screen in an upwards movement. This Screen is designed for front- raked operation.

3- Arc Screen
Arc Screens are used in narrow and shallow channels to remove solids with a particle diameter of more than 15-6 mm. It is compactly designed with equipment that cleans the surface of the bars from the outside with a circular rake or brush according to customer demand.

EXTRA FEATURES

- Custom Designs For Higher Capacities.
- SS316 Stainless Steel.
- Automated Raking Systems.
- Debris Compactors.
- Self-Cleaning Mechanisms.
- Online Remote Monitoring.
- Fully Automated System.
- Sensors & Controls.

AQUALINE WASTEWATER TREATMENT SYSTEMS

2-1 WASTEWATER SCREENS : FINE SCREENS

Wastewater screens are used in the treatment of wastewater to remove large solid particles from the water before it undergoes further treatment. These screens are a critical component of the preliminary treatment process in wastewater treatment plants.

Rotary Drum Screens

Screw Screen

Static Bar Screen

FEATURES

- Standard Spacing 1-6 mm.
- High Screening Efficiency.
- Mechanical Cleaning Systems.
- SS304 Stainless Steal.
- High Flow Capacity.
- Adjustable Speed & Operation.
- Compact Design.
- Energy Efficiency.
- Easy Maintenance & Access.

ADVANTAGES

- Removes Finer Particles, Reducing The Load On Secondary Treatment Processes.
- Enhances The Performance Of Biological & Chemical Treatment Stages.
- Reduces Wear & Tear On Downstream Equipment.
- Prevent Clogging.
- Reduces Maintenance Costs.

APPLICATIONS

- Secondary Treatment Stages.
- Industrial Wastewater Treatment.
- Food & Beverage Industry.
- Municipal Wastewater Treatment.
- Recycling & Reuse Systems.

AQUALINE FINE SCREENS

Fine screens are used to remove smaller particles from wastewater, such as grit, sand, and fine organic materials, improving the efficiency of subsequent treatment processes.

FINE SCREEN TYPS

1- Rotary Drum Screens

Drum Screens have fine screening features and are placed in pipelines. The particles held on the screen surface by the rotating drum mechanism are continuously stripped from the drum surface and removed from the system.

2- Screw Screen

it keeps the particles in the inlet water on the screen surface and removes the particles from the system by dewatering them thanks to the spiral structure. Screw Screen is suitable for use on pipeline.

3- Static Bar Screen

It consists of a series of parallel bars, fixed in place, that allow water to pass through while trapping solid waste.The screen is stationary, and debris is manually or automatically removed from the bars.

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- SS316 Stainless Steel.
- Integrated Washing Systems.
- Debris Compactors.
- Self-Cleaning Mechanisms.
- Online Remote Monitoring.
- Fully Automated System.
- Electrical Control Panel.

2-3 FILTER-PRESS

A filter press is a piece of equipment used in wastewater treatment to dewater sludge and separate solids from liquids. It is a batch-operated pressure filter that applies mechanical pressure to a slurry, forcing water to pass through the filter media while retaining solid materials.

FEATURES

- Standard Sludge Amount Up To 400 kg/day.
- Filtration Area Up To 1,500 m2.
- It Has An Average Working Pressure Of 16-12 Bar.
- Plastic Materials Such As PP, PU, PVDF Resistant To 16-12 Bar High Pressure Are Used.
- Filter Cloths Made Of Synthetic & Natural Yarns.
- Automated Operation.
- Low Maintenance.
- Cost-Effective.
- Compact Design.

ADVANTAGES

- Efficient Solid-Liquid Separation.
- Reduced Volume Of Sludge.
- High Solids Capture Efficiency.
- Low Operating Costs.

APPLICATIONS

- Municipal Wastewater Treatment .
- Industrial Wastewater Treatment.
- Food and Beverage Industry .
- Sludge Dewatering.
- Mining & Metallurgy.
- Chemical Manufacturing.

STYRE FILTER-PRESS

AQUALINE STYRE Filter Press is an equipment used for dewatering biological or chemical sludge. The dewatering process is carried out by the solid-liquid separation of the sludge by applying pressure filtration with the help of filter press plates and cloths attached to these plates.

A filter press works by pumping slurry (a mix of liquids and solids) into the press. The press consists of a series of plates covered with filter cloths, and as the slurry is pumped into the press, the liquid passes through the cloth while the solids are trapped, forming a "cake" on the plates

Filter press selection is determined according to the amount of sludge to be formed in the system and operating conditions. Each filter plate has different sizes and capacities.

AQUALINE FILTER-PRESS TYPES

- STYRE - MANUAL MODEL.
- STYRE - AUTOMATIC MODEL.
- STYRE - SEMI AUTOMATIC MODEL.

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- Cloth Washing System.
- Automated Controls.
- Chemical Feed Systems.
- Semi Or Full Automatic Model.

2-4 PIPE FLOCCULATOR

A pipe flocculator is a component used in wastewater treatment processes, specifically in the stage of chemical coagulation and flocculation. The purpose of the flocculator is to promote the formation of larger flocs (aggregates of fine particles) by mixing chemicals with the wastewater.

FEATURES

- STANDARD capacities 1000 CMD.
- PVC Material.
- No Energy Requirements To Mix With Special 90 Degree Elbow Turns.
- No Power Required For Mixing.
- Minimum Chemical Consumption Is Ensured.
- Can Be Easily Scaled Up Or Down To Match The Treatment Capacity Required.
- Low Maintenance.
- Compact Design.

ADVANTAGES

- Effective Coagulation & Flocculation.
- Reduced Volume Of Sludge.
- Enhanced Particle Aggregation.

APPLICATIONS

- Municipal Wastewater Treatment.
- Industrial Wastewater Treatment.
- Food & Beverage Industry .
- Chemical Manufacturing.
- Mining & Metallurgy.

STYRE PIPE FLOCCULATOR

AQUALINE STYRE pipe flocculators are designed in the most appropriate way to distribute the coagulant or flocculants to be dosed in the most appropriate way according to the operational needs.

Pipe flocculators are a vital component in modern wastewater treatment systems, offering efficient and effective mixing of chemicals to enhance the coagulation and flocculation process.
Their compact design, scalability, and low maintenance make them an attractive option for both municipal and industrial applications.

After dosing, mixing process takes place with the movement of water in the pipe and flocs are formed to be removed from the system in the next step.

AQUALINE STYRE Pipe Flocculator is an option that complements dissolved air flotation technology, increases its efficiency and performance, thus facilitating the purification process.

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- Stainless Steel Material.
- Integrated Chemical Dosing Systems.
- Automated Valves & Flow Meters.
- Monitoring & Control Systems.
- Heat Exchangers.

2-5 Dissolved Air Flotation Unit

Dissolved Air Flotation system is a kind of commonly used solid-liquid separation equipment in the sewage treatment industry, which can effectively remove the suspended matter, grease, rubber substances in the sewage, and is the main equipment of the sewage preliminary treatment.

FEATURES

- STANDARD capacities 1,500 CMD.
- DAF & ACE Combined Into One.
- Upgradable To A Full ITS.
- Easily Converted To DGF.
- Built From High Corrosion Resistant Material Such As 304SS.
- Plug&Play Solution.
- Low Maintenance.
- Compact Design.

ADVANTAGES

- High Contaminant Removal Efficiency
- Effective Removal Of Suspended Solids
- Enhanced Removal Of Fats, Oils, & Greases (FOG).
- Reduced Chemical Usage.
- Improved Settling Of Sludge.

APPLICATIONS

- Municipal Wastewater Treatment .
- Industrial Wastewater Treatment.
- Pretreatment For Biological System.
- Slaughterhouses.
- Petrochemical & Paper Industries.
- Dairies & Cheese Manufacturing.

AQUALINE DAF UNIT

We supply dissolved air flotation (DAF) units for industrial effluent treatment. Our DAF systems are entirely designed and manufactured in our facilities, thanks to which we can guarantee the highest standards of quality and performance of each machine we deliver.

Dissolved air flotation is the most efficient technology for the removal of suspended solids (TSS), oils, grease and biochemical oxygen demand (BOD) from wastewater and other industrial process streams.

TYPES OF DAF UNITS:

1- Circular (Central Feed) DAF
2- Rectangular DAF
3- Packaged DAF Systems

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- 316SS Stainless Steel.
- Electronic Unit For Polyelectrolyte Preparation.
- Smart DAF System.
- Integrated Walking Mezzanine With Stairs.
- Optional Post-Filtration Filters.
- Optional dewatering system.
- Chemical Dosing Systems.
- Automated Controls.
- Enhanced Skimming Mechanisms.
- Odor Control.
- Sludge Management.

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2-6 ODOR CONTROL UNIT

Wastewater treatment processes can produce foul odors due to the presence of various compounds, such as hydrogen sulfide (H2S), mercaptans, and ammonia, which are released during the decomposition of organic matter. Effective odor control measures aim to minimize or eliminate these unpleasant odors.

FEATURES

- Standard Capacities 1,500 CMD.
- Automated Control.
- Energy Efficiency.
- Integration With Existing Infrastructure.
- Low Maintenance.
- Compact Design.

ADVANTAGES

- Minimizes Or Eliminates Unpleasant. Smells Associated With Wastewater Treatment.
- Improved Air Quality.
- Mitigation of Corrosion.
- Helps facilities comply with environmental regulations & standards.
- Worker Health & Safety.

APPLICATIONS

- Municipal Wastewater Treatment .
- Industrial Wastewater Treatment.
- Sewage Pump Stations.
- Industrial Cooling Water Systems.

AQUALINE ODER CONTROL UNIT

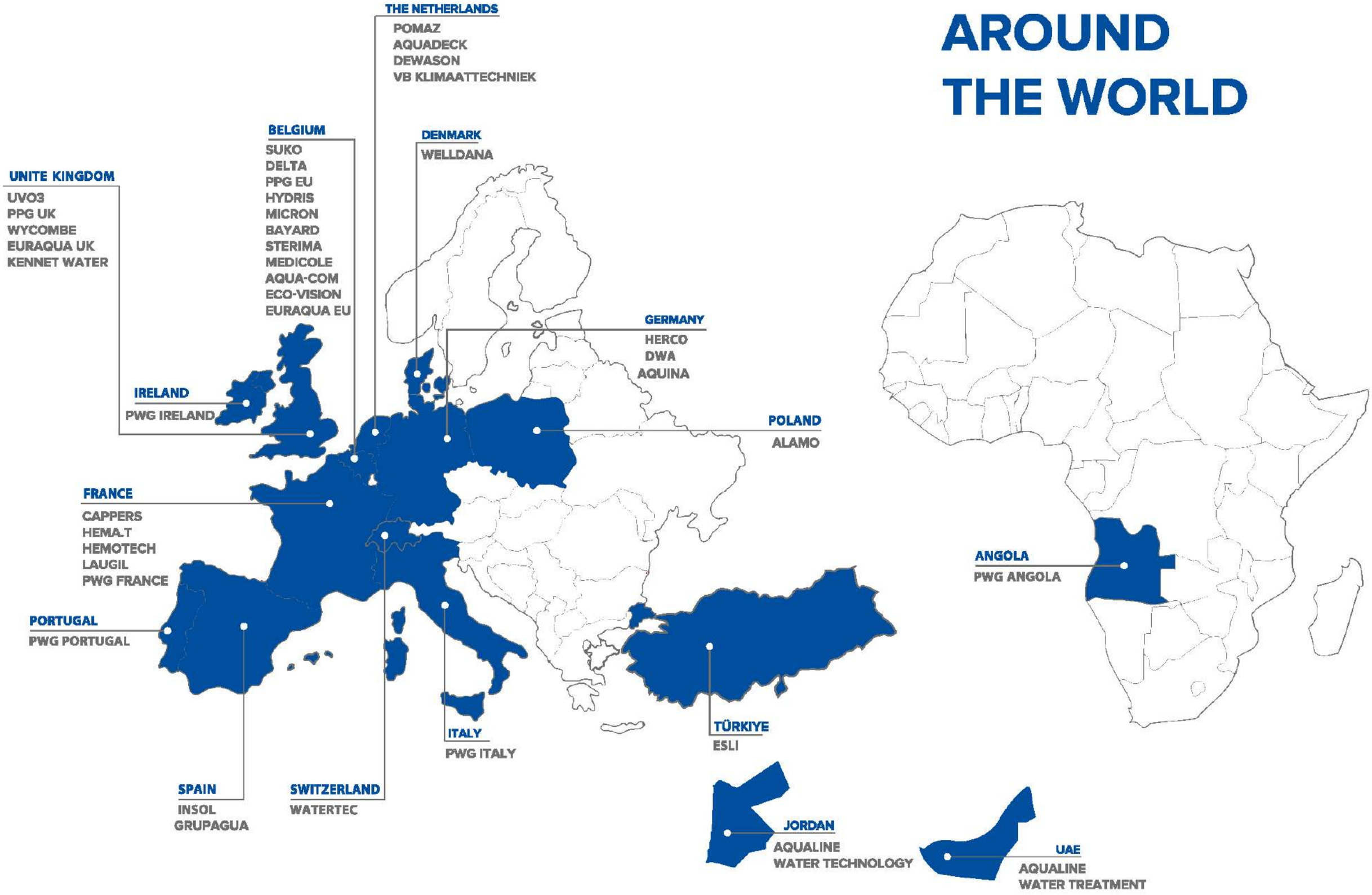
Wastewater odor is a nuisance and in many cases can cause corrosion to wastewater infrastructure, sewer systems, valves, metal structures and electrical components. Depending on the odorous compounds involved, there can also be a danger to public health.

AQUALINE provides a broad range of solutions for effective wastewater odor control including biological, chemical, and activated carbon scrubbers, as well as liquid phase solutions for both sewer networks and in-plant odor and corrosion control.

EXTRA OPTIONS

- Custom Designs For Higher Capacities.
- Automated Monitoring Systems.
- Mobile Odor Control Units.
- Noise Control Features.

PWG AROUND THE WORLD



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