



“A Clear Solution
to Water Recycling”

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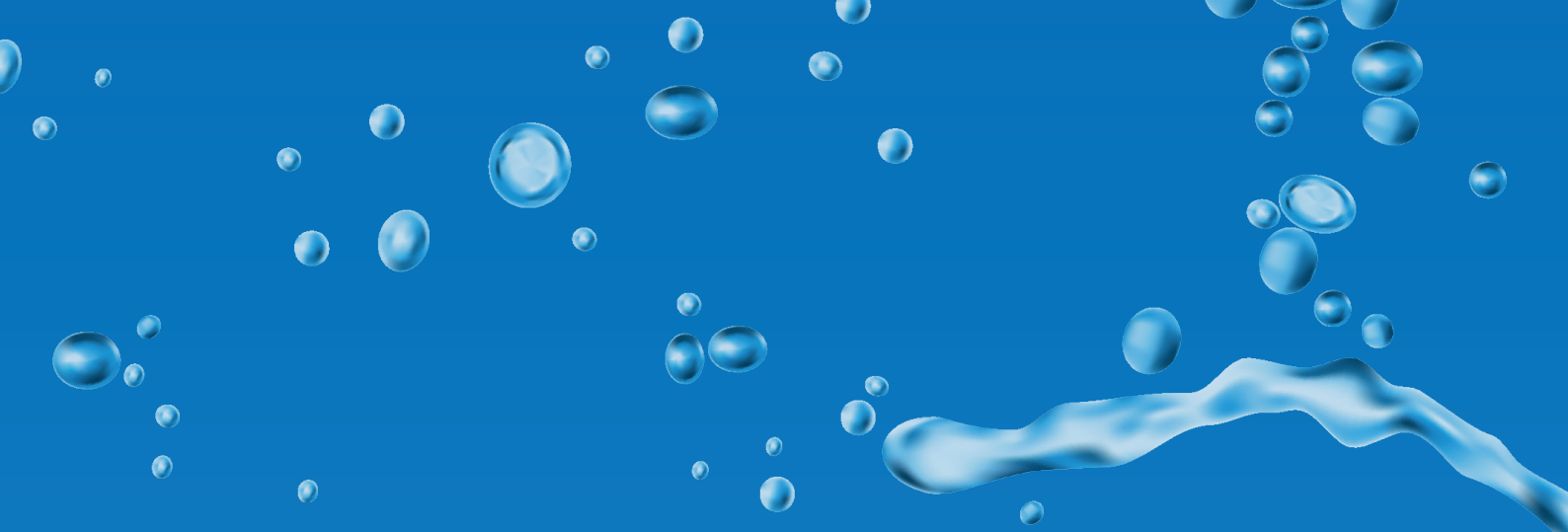
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ABOUT US

Aquafil Solutions specializes in designing and manufacturing water recycling plants for the stone industry. Our company was founded in 2020 with a commitment to supplying the highest quality water recycling plants to the market. Our goal as a business is to provide a high quality product along with unrivalled after-sales service.

Our plants are designed to clarify and supply recycled water ranging from 200 litres per minute up to 2000 litres per minute and beyond. One of our key advantages is that we manufacture all of our systems in house, allowing us to fully customize our products to meet the specific needs of our customers.

Located in Braga (Portugal) , our 3000sqm factory is equipped with state-of-the-art machinery, ensuring a superior quality finish in the manufacturing of our products. By having complete control over the production process, we can consistently achieve the highest level of quality across all our products.



OUR PROCESS

1 COMPANY ANALYSIS

Our initial consultation allows us to assess our customers daily processes, including the materials used and the current machinery in place. This enables us to accurately calculate the volume of water required and provide the best solution for your business.

During the initial consultation, we also discuss your goals and financial budget, ensuring that the proposed solution aligns with your specific needs. This consultation is mutually beneficial, as it helps us determine the most suitable solution for your business while also evaluating your current setup.

Our water treatment systems cater to both small and large fabricators, offering a wide range of systems capable of delivering anywhere from 200 to 2000 litres per minute and beyond.

2 WATER TESTING

A sample of the water will be taken from our initial company analysis and brought to our laboratory. Here, we will determine the specific chemical agents, namely the coagulant and flocculant, required for your production process.



This analysis is crucial as it enables us to provide you with accurate advice on the correct chemicals needed and the optimal dosage for your production.

3

SOLUTIONS

Once all the factors have been concluded in regards to your requirements, we will demonstrate the possible solutions for your business in regards to the plant and the budget.

4

PRE-INSTALLATION PREPARATION

Once the quote has been sent and accepted, we will liaise with you to ensure that all the necessary preparations are completed correctly before shipping the new recycling plant. We will conduct a pre-installation inspection to verify that all services and works have been carried out accurately, allowing us to deliver the plant and facilitate a fast and seamless installation. Our top priority is to minimize any production downtime.

5

DELIVERY AND INSTALLATION

Once the plant has been delivered to you, our technicians will proceed with a fast and smooth installation followed by providing you training to ensure your complete confidence before completing the installation. Several tests will also be conducted to ensure that the plant is effectively treating water and maintaining optimal PH levels.

6

AFTER SALES SERVICE

At Aquafil Solutions, we firmly believe that providing exceptional after-sales support is essential. Our goal is to offer unrivalled assistance and address any questions or concerns you may have. We understand the significance of supporting our customers throughout the lifespan of their water treatment plant, as it is vital for fostering a strong and enduring relationship.

OUR SYSTEMS

At Aquafil Solutions, we offer two lines of water clarifiers: the **CL Version** and the **LD Version**.

CL VERSION

The CL version is a traditional cylindrical recycling plant that has been widely used in the industry for many decades. It has the flexibility to adapt to various requirements and can provide an output ranging from 200 to 4000 litres per minute. This system is known for its minimal maintenance needs and reliable functionality.

Key advantages of the CL systems include:

Plug and play system
with pre-assembled
components

Minimal
maintenance
required

Fully constructed
with stainless steel
for durability

High-quality water
clarification due to the
system's construction

Reduced overall
footprint and cost
for groundworks

CL Models CL250 CL500 CL800 CL1000 CL1200



OUR SYSTEMS

LD VERSION

The LD version is a compact and high-speed lamellar water clarifier designed to have a small footprint while delivering a high output of recycled water. It is particularly suitable for fabricators with limited space, as it can be stored indoors or outdoors. Our LD systems are fully customizable to meet specific customer requirements.

Key advantages of the CL systems include:

Reduced overall
footprint

Compact system
with a high output

Low height, ideal for
small spaces

High-quality water
clarity

LD Models LD250 LD500 LD800 LD1000 LD1200



SLUDGE EXTRACTION

FILTERPRESS

Our filter presses are specifically designed to achieve optimal results in industrial sludge dewatering. The sludge, originating from the clarifier, is pumped onto the filter press and passes through its plates. As the water filters through the plates and returns to the system, sludge cakes are formed and compressed.



Subsequently, when the plates open, the cakes are shaken off and dropped into a skip. It is worth noting that our filter presses can be fully customized to meet the unique requirements of our customers.

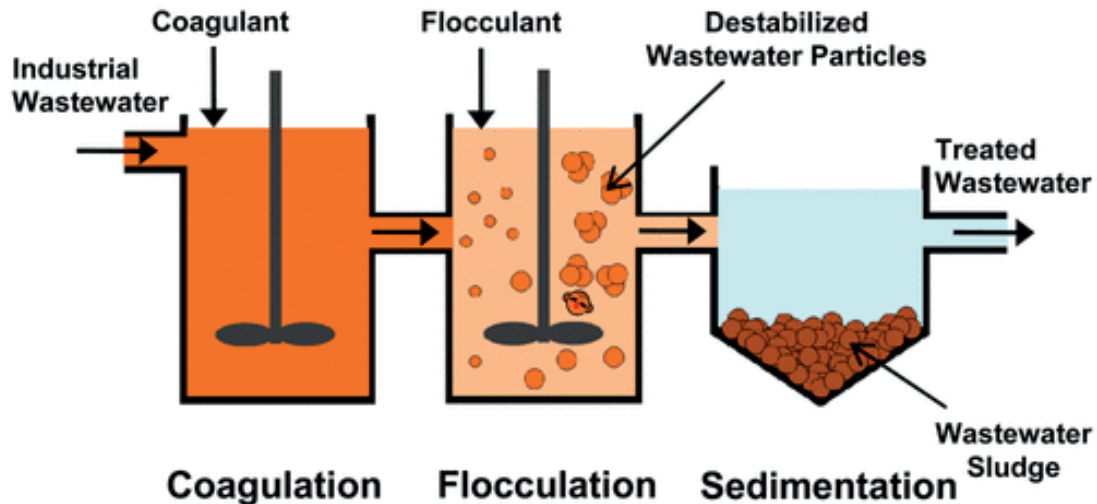
BAG SYSTEM

Our Bag System is available in single or double configurations.

The bag system, made entirely of stainless steel, enables the insertion of filter cloth bags onto the frame for the discharge of sludge. After the water passes through the bags onto the drip tray, it is then returned to the pit. The bag system is an efficient and cost-effective solution with minimal maintenance required.



CHEMICALS



Ensuring the use of appropriate chemicals in your water recycling plant is essential for maintaining clear water and achieving the optimal pH level. After conducting tests on the water in your factory, we will provide recommendations on the suitable chemical agents to be used in your production process.

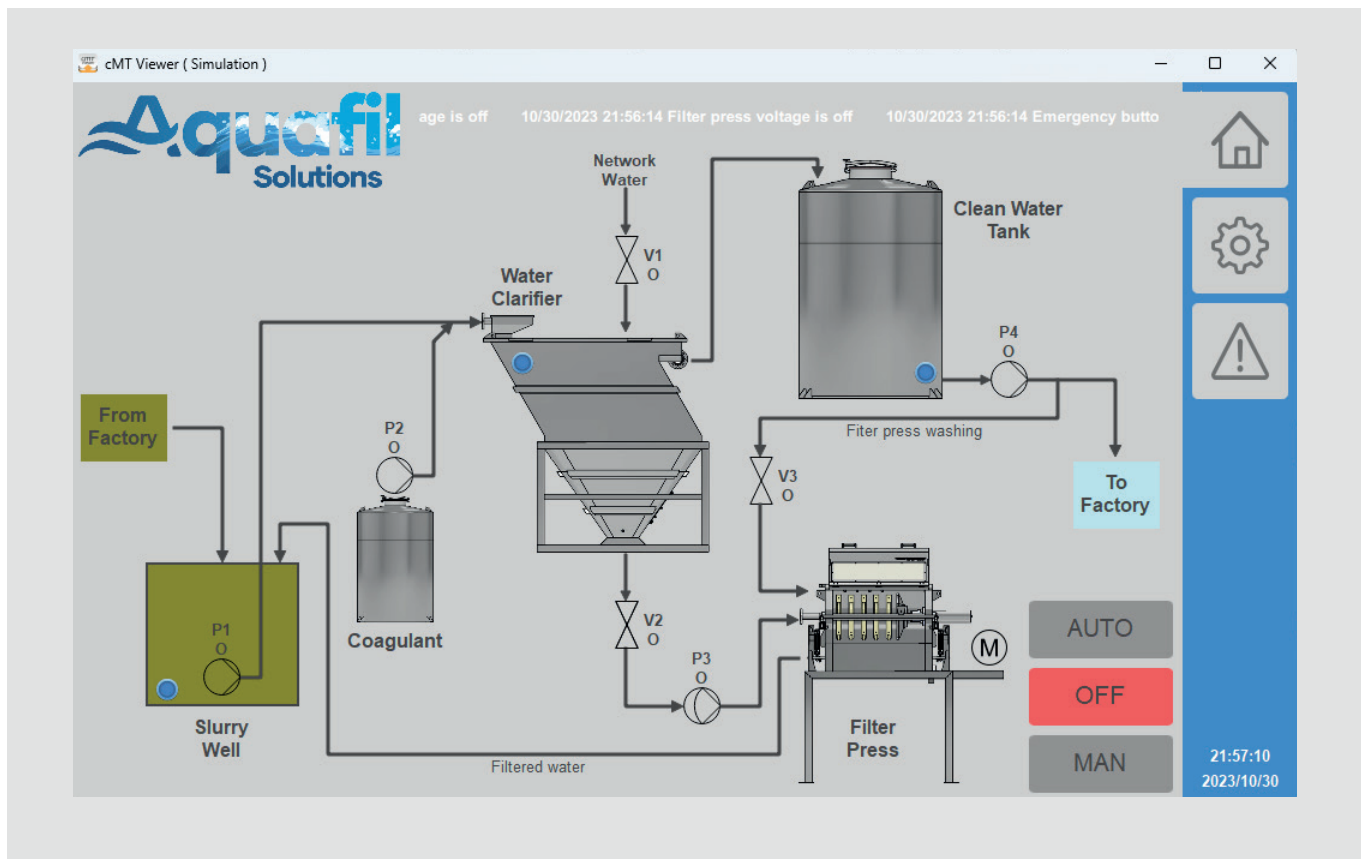
The two primary chemicals utilized in this context are flocculant and coagulant. Flocculation and coagulation play crucial roles in water treatment by effectively removing suspended solids. This is achieved through a process that destabilizes the suspended particles in the water.

Coagulation involves the aggregation or clumping together of particles, while flocculation refers to the settling of coagulated particles. The objective is to eliminate and neutralize the charge density of the particles through coagulation. Subsequently, flocculation facilitates the binding of particles, enabling larger particles to separate easily from the water and settle at the bottom.

By employing the appropriate combination of flocculant and coagulant, you can ensure efficient removal of suspended solids and maintain the desired water clarity. Additionally, this process aids in achieving the optimal pH level for your water recycling plant.

SOFTWARE

Our innovative software is constantly being optimized and developed to adapt to the requirements of our customers. Our user-friendly software greatly improves efficiency by providing a clear view of the plant with manual or fully automatic operations.



OPTIONS

DELIVERY PUMPS

Our systems are equipped with high-quality delivery pumps. Depending on the system's output, we offer different configurations, including inverter-driven pumps. Rest assured, all our pumps are designed to deliver the required flow with optimal water pressurization.



WATER STORAGE TANK

Our recycled water storage tanks are specifically designed to support the silo in providing the factory with ample water supply. We offer customizable options to meet the specific volume requirements of your system.



PH CONTROL UNIT

The PH control unit is a device that effectively maintains the PH level of water at all times. By integrating the PH controller into our systems, we ensure a consistently controlled PH level by precisely regulating the injection of chemical agents to balance the PH.







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