

## WASTEWATER TREATMENT



### ADDRESS:

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Our solutions can be applied across varied sectors and for any capacity from a household to a large-scale condominium or even a residential village. Many of the commercial and residential clients, who have limited space and are in the dire need of discharging environmentally safe effluents can find suitable solution through our technologies. The treated effluents can further be customized to be recycled for irrigation or non-sanitary usage complying with the regulatory tolerance limits.

- ⇒ Hotels & Restaurants
- ⇒ Schools & Universities
- ⇒ Hospitals & Nursing Homes
- ⇒ Municipality and Households
- ⇒ Breweries & Beverage industry
- ⇒ Meat & Fish processing industry
- ⇒ Dairies & milk processing industry
- ⇒ Refugee camps & Boarding schools
- ⇒ Sand & Mineral mining and washing
- ⇒ Rainwater harvesting & water storage
- ⇒ Catering and Food preparation industry
- ⇒ Military Camps & mobile emergency camps
- ⇒ Factory buildings, Worksites & Office buildings
- ⇒ Bakeries and Confectionary manufacturing industry
- ⇒ Condominium residences & Residential housing schemes
- ⇒ Coconut product and Agricultural product processing industry
- ⇒ Landfill Soakage water, treatment ponds & Landfill destined waste
- ⇒ Livestock, Animal research centers, Animal waste, Butcheries & Slaughterhouses
- ⇒ Pharmaceutical manufacturing, Medical laboratories, Pathological & Hazardous waste
- ⇒ Pre-filtration in RO & Nano technology & Post-filtration in ground-water cation removal



Our sewer treatment plants (STPs) are fully biological, designed upon the latest SSB® technology (sequential stabilizing activated sludge process - an aerobic sequential wastewater cleaning system with integrated sludge stabilization) developed by AQUATO® Umwelttechnologien GmbH, Germany.

These three phases of the SSB® process can be operated in modern single- or multi-chamber tanks or easily, without major structural changes in existing older tanks. All steps in the plant are carried out on a regular cycle, which is set and driven by the control panel.

A cycle consists of the following phases:

## 1. Aeration Phase:

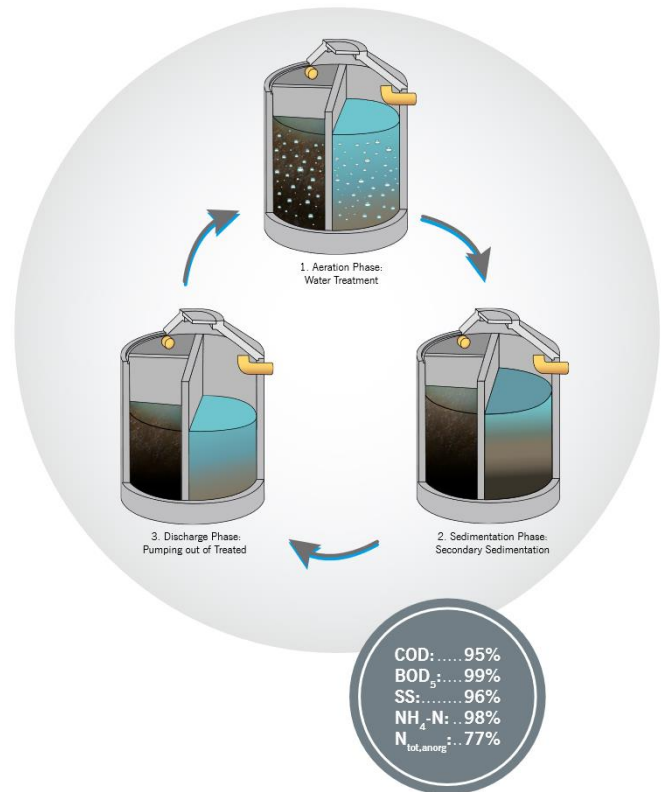
The incoming sewage initially reaches the first chamber. Here the biological treatment of the wastewater starts. Organic compounds are removed by microorganisms in the activated sludge. Optionally, the process of denitrification takes place here. In addition, coarse material is retained in the first chamber.

## 2. Sedimentations Phase:

Biological treatment of the wastewater also takes place in the last chamber. In the same chamber but separated by time final sedimentation takes place. The activated sludge settles down to the ground of the aeration tank and the cleared water separates in the upper part of the tank.

## 3. Discharge Phase:

The clearwater is pumped out of the tank through the outlet.



## + ADVANTAGES

- ⇒ Reduced technology - thus less susceptible
- ⇒ No electrical components submerged in water
- ⇒ High level of operational safety due to modern technology
- ⇒ Longevity due to proven units
- ⇒ Simple and safe assembly and retrofitting
- ⇒ Low maintenance costs due to easy handling
- ⇒ Low power consumption
- ⇒ Economy mode optional
- ⇒ Excellent discharge values even with over- & underload

The modern plain text display gives all the important data at a glance to minimize the maintenance effort, a backpressure monitoring is integrated	Integrated rotary valve with step motor technology simplifies the cleaning cycle, energy saving and quiet.	The unique air-lift technology eliminates the presence of underwater pumps and moving mechanical parts.	Specially made fine-bubble diffusers assures the high percentage of DO during the aeration process.

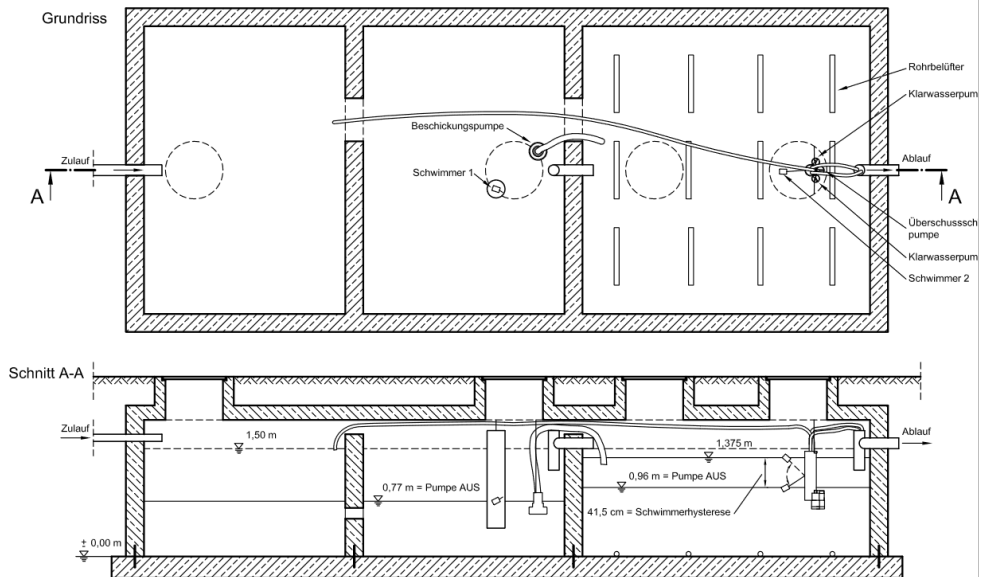
Model: AQUATO® STAbi-S	Capacity: up to 3,000 liters a day

Model: AQUATO® STAbi-KOM	Capacity: up to 20,000 liters a day



**Model: AQUATO® ORKA**

**Capacity: 75,000 -300,000 liters a day**



The PUROO®, small sewage treatment plants specially designed for households comes with both SBR® and enhanced SSB® versions.

**Model: PUROO®**

**Capacity: up to 2,000 liters a day**



## Physio-Chemical Solutions

**Aqua**chem

For industrial effluents which contain higher loads of non-bio-degradable pollutants, we offer home-grown alternative technologies based on Physio-Chemical principles. Different formulations of coagulants and Flocculants are applied in the process. Batch and continuous treatment mechanisms are designed to meet the regulatory discharged standards of authorities, and client preferences.

## Incineration - for solid waste disposal



To handle the serious environment problem of accumulation of "Non-biodegradable" and "Hazardous" waste, we offer "Inciner8" a globally respected manufacturing organization in UK, offering a range of Incinerators for all applications in the waste management industry such as Medical, Animal, General and Municipal etc. Our products are specifically designed with clean air incineration they are ideal for many industries. Our incinerators comply with many regulatory standards and are CE certified. Presence of the secondary chamber allows the Flue-gas treatment by preventing the cracking of dioxins.

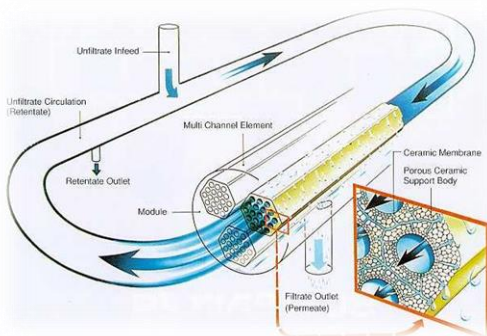


## Ceramic Membrane Micro-Filtration

**KERASIEV®**

KERASIEV® Ceramic Membrane

Filtration/separation science is considered as one of the most important process or unit operation for the Modern mankind. Membrane is an important tool in separation science of which ceramic membrane is rightly termed as the 4<sup>th</sup> generation membrane as it is durable, efficient, and faster than existing polymer membrane or conventional filtration process.



## h2o.TITANIUM - Disinfection using Advance Oxidation Process (AOP)

A chemical-free water purification & disinfection solution which eliminates micro-organisms, reduction of turbidity and odor without generating waste or by-products in the wastewater.

*h2o. Titanium* reactors manufactured from a single block of titanium dioxide (TiO<sub>2</sub>) whose function is to generate hydroxyl radicals (.OH) to eliminate organic material when activated as a catalyzer by means of UV radiation. The mineralization of organic material in the water gives an indirect boost to its disinfection.



### + ADVANTAGES

- ⇒ Latest AOP technology
- ⇒ Simple and small unit
- ⇒ Long lasting
- ⇒ No chemical use
- ⇒ 100% ecological

Aquablu Lanka Pvt. Ltd. is a Sri Lanka's leading waste management solutions provider led by a team of dedicated domain experts committed to eliminating potentially harmful and environmentally disruptive organic waste. We are a Central Environment Authority (CEA) registered company, deliver world-class solutions for eco-friendly waste management.

Our solutions include sludge less sewage disposal, Industrial waste-water filtration, Physio-chemical solutions, chemical free water disinfection and purification solutions and solid waste disposal.

Our technologies are the latest and most effective in their industry, used internationally to obtain high discharge values of effluents. The flexible solutions can be customized to fit in to limited spaces, minimum monitoring and maintenance, economical and ease of assembly.

The solutions are well proven for Hotels, Condominium apartments, Factories, Food processing factories, Restaurants, Schools or any residential setups, which has limited space and in the need of high standards of discharged water.

We partner with Germany's Aquato® and ATB® for Sewage Treatment Plants, Kerasiev® for ceramic filtration membranes, h2o.TITANIUM from Spain for chemical free water purification systems and with UK's Inciner8 for thermal destruction & disposal solutions.



AQUATO® Environmental Technologies GmbH, sells and realizes wastewater treatment systems worldwide, which are among the best and most durable in their industry.

**AQUATO®**  
Umwelttechnologien  
GmbH  
Ernstmeierstraße 24  
32052 Herford  
Germany

ATB wastewater treatment systems are among the most modern and innovative wastewater treatment plants of our time; ATB is the undisputed market leader in

**ATB WATER GmbH**  
Südstraße 2, D-32457  
Porta Westfalica  
Germany

Provides chemical free water purification and disinfection solutions with titanium dioxide, manufactured in block with h2oTitanium reactor structure with UV lamps inside.

C. Luis Santangel, nº7.  
Polígono Industrial Torrubero,  
46136 Museros, Spain

INCINER8 are a globally respected manufacturing organization offering a range of incinerators for all applications in the waste management industry,

**Inciner8 Limited**  
Canning Road Industrial Estate,  
Canning Rd, Southport PR9  
7SN,  
United Kingdom



Member of  
**German Water  
Partnership**



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Authority of Sri Lanka

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