



## EXPERTS IN WASTE WATER TREATMENT SOLUTIONS BY INDUSTRY

### Address

No. 121/B1/1,  
Chilaw Road,  
Negombo,  
Sri Lanka

### Contacts

**Email:** [info@aquablu.lk](mailto:info@aquablu.lk)

**Phone:** +94 31 332 2253

**Mobile:** +94 71 481 9398

+94 71 405 2829

**Web:** [www.aquablu.lk](http://www.aquablu.lk)

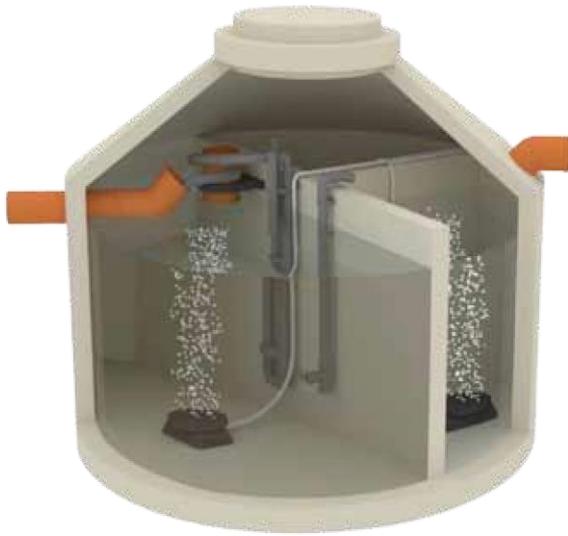
Aquablu Lanka Private Limited is Central Environment Authority (CEA) registered company consist with a group of highly experienced and qualified professionals. We are specialized in sewage waste water treatment, utilizing bio-remediation and bio-augmentation techniques, thus provide fully biological waste water treatment solutions with the best technologies available. We also provide Physio-Chemical and Membrane Filtration solutions where biological treatment doesn't fit in. We further offer solutions for solid waste management and drinking water.

Our solutions can be applied across varied sectors such as below. 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.

### APPLICABLE SECTORS

- ✓ 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
- ✓ 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
- ✓ Pharmaceutical manufacturing, Medical laboratories, Pathological waste & Hazardous waste
- ✓ Pre-filtration in RO & Nano-filtration technology & Post-filtration in ground-water cation removal
- ✓ Livestock, Animal research centers, Animal waste, Butcheries & Slaughterhouses.





*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.*

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#### Outstanding

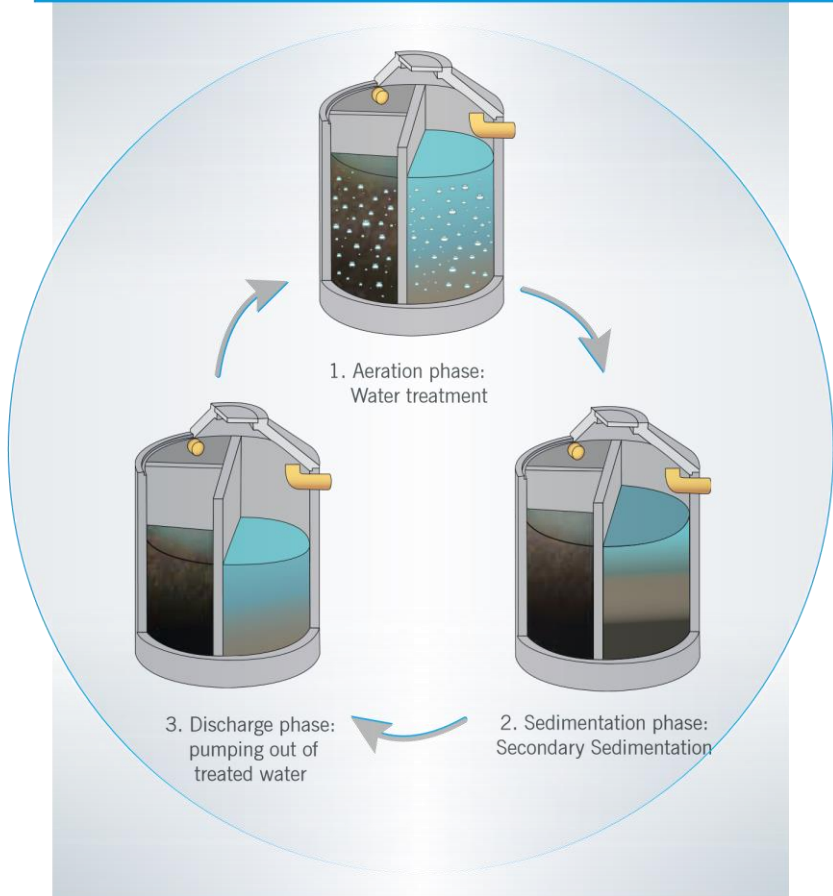
#### cleaning performance:

- ▶ COD: 95%
- ▶ BOD<sub>5</sub>: 99%
- ▶ SS: 96%
- ▶ NH<sub>4</sub>-N: 98%
- ▶ N<sub>tot,anorg</sub>: 77%

#### System Benefits

- No odor generation
- No fouling processes
- Long sludge removal interval
- Prevents corrosion in concrete tanks
- Significantly reduced operational costs

### 3-PHASES-CYCLE SSB®



All steps in the plant are carried out on a regular cycle, which is set by the control panel.

A cycle consists of the following phases:

#### 1. Aeration phase: water treatment

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

#### 2. Sedimentation Phase: Secondary Sedimentation

Biological treatment of the wastewater takes also place in the last chamber. At the same time this chamber takes also over the function of the final sedimentation by cyclic control of the system.

The activated sludge settles to the bottom of the aeration tank. In the upper area the clearwater supernatant is formed.

#### 3. Discharge Phase: pumping out of treated wastewater

The treated wastewater from the clearwater supernatant is pumped into the outlet.



### Technology Benefits

- No moving mechanical parts in water
- No electrical components in water
- Low Maintenance due to easy handling
- Long life cycles due to proven units
- Low power consumption
- Simple & safe assembly and retrofit
- Short installation time



**Air lift pump technology**

### Rotary Valve



### PLC

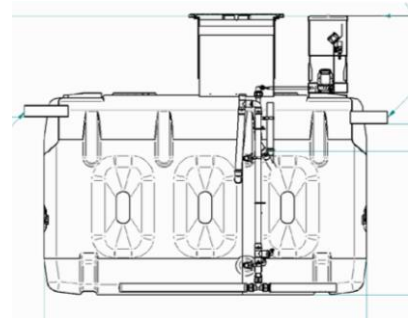
Fr 18.01.19 10:39:10  
aeration normal  
...02:42:18  
aerator 2, aerator  
current: 5.8A  
no error  
p=168mbar

The modern control K-Pilot 18.1 / 18.3 with plain text display. This gives all the important data at a glance. To minimize the maintenance effort, a backpressure monitoring is integrated.

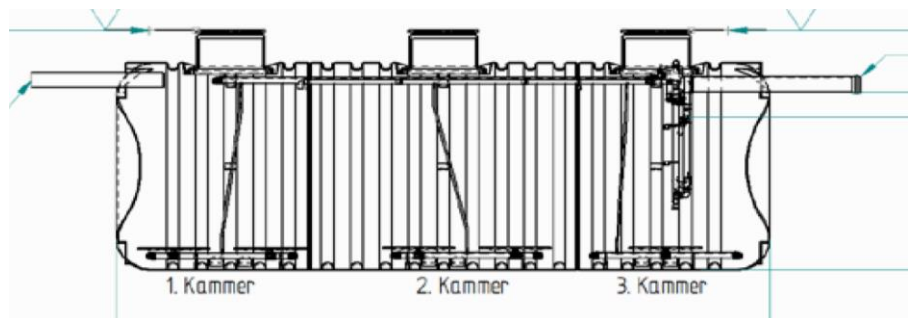
## AQUATO® STAbi-S Complete plant up to 3,000L/d



\*Optional - Control Wall Cabinet with Control STAbi-S



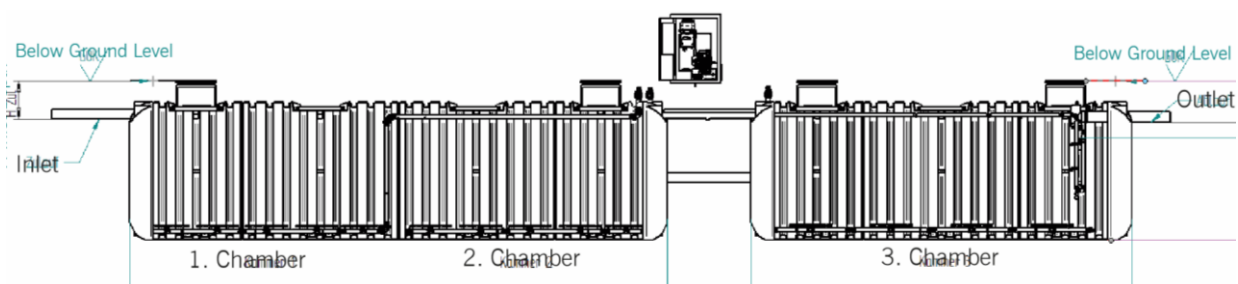
## AQUATO® STAbi-KOM Complete plant up to 10,000L/d

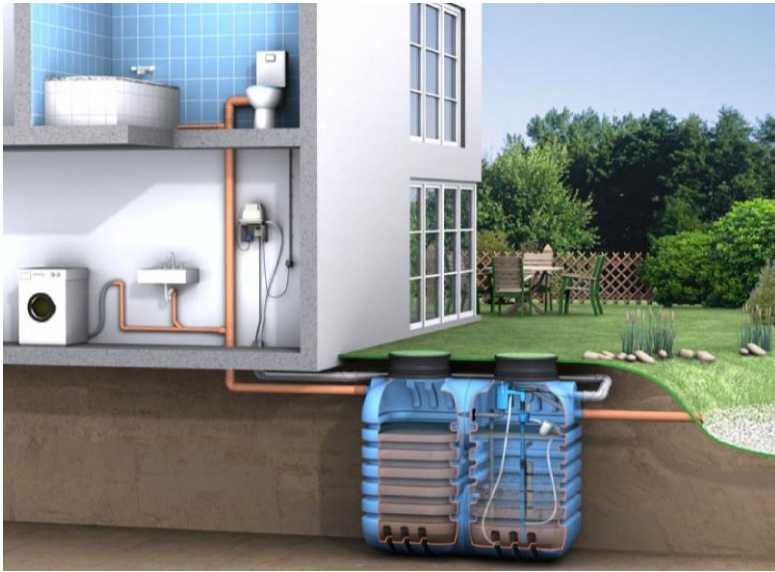


## AQUATO® ORKA Complete plant up to 75,000 L/d

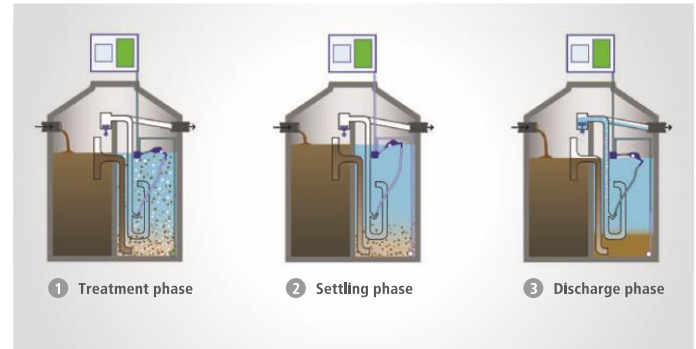


\*Side Channel Blower





#### DESCRIPTION OF PROCESS



## The power-saving small wastewater treatment plant

We have put together the best of our proven wastewater treatment plant systems and have thus developed a very simple and reliable SBR technology.

On the basis of our reliable McWater® SBR plant a simplified version of the proven SBR process has resulted which is adjusted precisely to the conditions of single- and multiple family houses. As with our proven APURIS® plant we have done without interference-prone solenoid valves. McWater® and APURIS® are former successful developments for the german market.

From our AQUAmax® BASIC range of models we have taken over the patented and secure spherical valve. It is thus not for nothing that the PUROO® small wastewater treatment plant is the sum of all ATB innovations; consequently further developed for the requirements of our customers.



# PRO

**AQUAmax®**



**AQUAmax® PROFESSIONAL GZ 1-16**  
For 1-16 PT



**AQUAmax® PROFESSIONAL GZ 17-50**  
For 17-50 PT



**AQUAmax® PROFESSIONAL XL**  
For 60-600 PT



**AQUAmax® PROFESSIONAL XLA/XLAM/XXL**  
For 300-5,000 PT

For industrial effluents which contain higher loads of none bio-degradable pollutants, we offer 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.

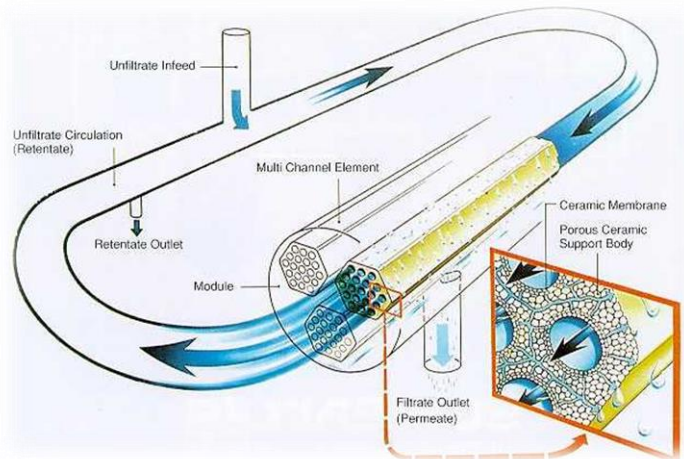


**KERASIEV®**  
KERASIEV® Ceramic Membrane

## CERAMIC MEMBRANE MICRO-FILTRATION (MF)

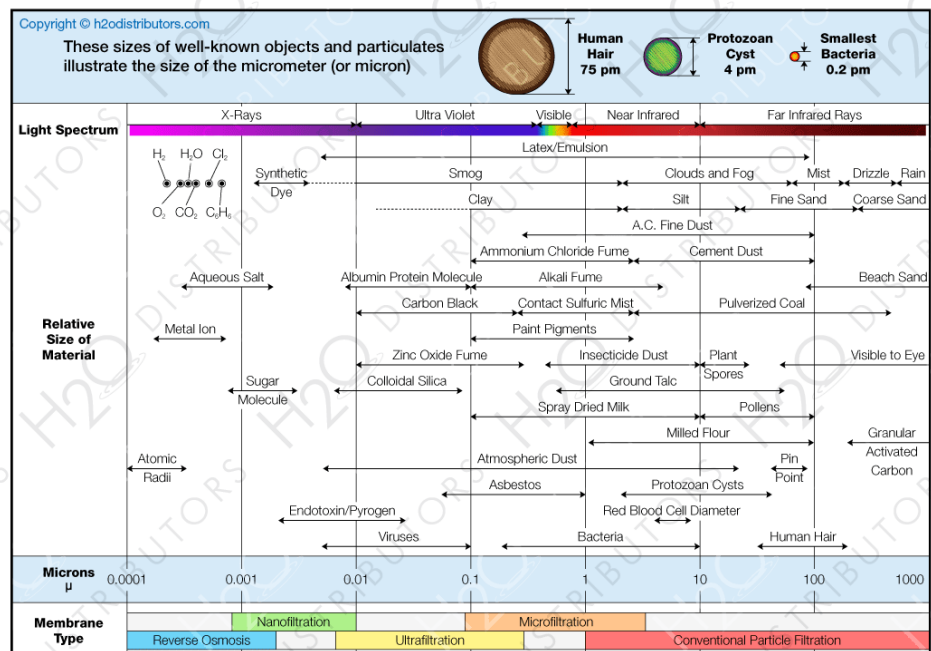
Filtration/separation Science is considered as one of the most important process or unit operation for the Modern mankind.

Membrane is an important tool in separation science of which ceramic membrane is rightly termed as the 3rd generation membrane as it is durable, efficient and faster than existing polymer membrane or conventional filtration process.



### Micro-Filtration Usage

- Catering/Automobile waste: *Oil & Grease removal*
- Desiccated Coconut effluent: *Oil & Fat separation*
- Dairy product industry: *Skim separation*
- Liquid based Foods: *Sugar syrup TSS removal*
- RO/ Nano filtration technology: *Pre-filtration*
- Ground water: *Post filtration in Fe/Mn/As removal*





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

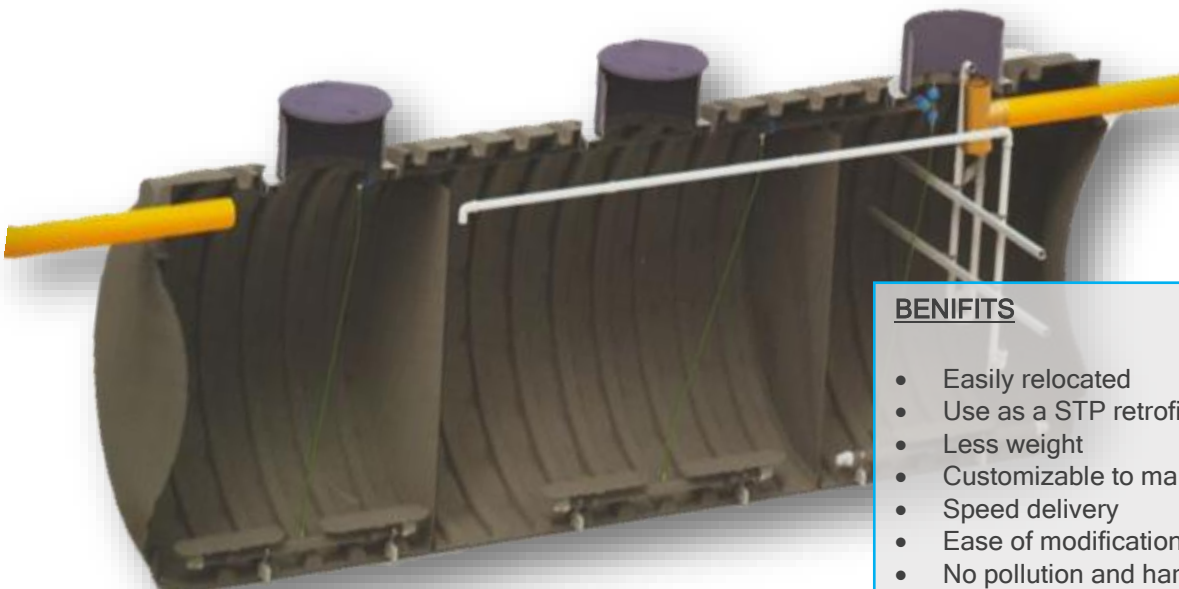


#### Burning Rate

15kg to 1 Ton per hour  
(Customizable)

## FRP TANKS

We fabricate and deliver different capacities of tanks out of fiber reinforced plastic (FRP). These tanks are useful in storing waste water, drinking water and for rainwater harvesting purposes.



#### BENIFITS

- Easily relocated
- Use as a STP retrofitting unit
- Less weight
- Customizable to many shapes & sizes
- Speed delivery
- Ease of modifications
- No pollution and harmless to human body

## PROFILE

Aquablu Lanka (Pvt) Ltd is a collection of highly qualified and experienced professionals, recognized by the Central Environment Authority (CEA) for providing waste management solutions.

Our "SBR" and "SSB" are the latest technologies 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 Plants are designed and fabricated in Germany by Aquato and ATB, who are Industry leaders and our long-time partners.

We partner with Kerasive to provide the 3rd generation micro filtration, the technology is applied in TSS removal of pollutants, industrial liquid separation needs (ie: Dairy products, sugar syrup) and Ground water clarification. The Ceramic membrane filtration module equipped with the Crossflow filtration mechanism, combining forward-wash advantage, delivered as fully or semi-auto system.

We also provide solutions for managing of non-biodegradable and potentially hazardous solid wastes, in the form of robust, high-temperature incinerators which produce low particulate emissions. "Inciner8" a globally respected manufacturing organization in UK, offer a range of Incinerators for all applications in the waste management industry. Our products are specifically designed with clean air incineration and are ideal for Medical, Animal, General Municipal waste streams.



AQUATO® Environmental Technologies GmbH, headquartered in the Westphalian Herford, 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  
[www.aquato.de](http://www.aquato.de)



As experts in the field of wastewater treatment plants, ATB offer a special solution for almost every industry. ATB wastewater treatment systems are among the most modern and innovative wastewater treatment plants of our time; with more than 100,000 plants sold, ATB is the undisputed market leader in Germany.

ATB WATER GmbH  
Südstraße 2, D-32457  
Porta Westfalica  
Germany  
[www.atbwater.com](http://www.atbwater.com)



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INCINER8 are a globally respected manufacturing organisation offering a range of Incinerators for all applications in the waste management industry, our products are specifically designed with clean air incineration at the forefront of our product development for Medical, Animal by product and General Municipal waste streams.

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

*Aqua for life*



Member of  
German Water  
Partnership

*Aquablu*

*Aquablu Lanka (Pvt) Ltd*

No. 121/B1/1, Chilaw Road,  
Negombo, Sri Lanka.  
Tel : +94 31 332 2253  
Mobile : +94 71 481 9398  
E-mail : [info@aquablu.lk](mailto:info@aquablu.lk)  
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