



## The high standard technical equipment of AQUABIOdom®

### Lamella clarifier

Settleable particles and excess biomass are effectively separated within the lamella clarifier.



### Aquabioflux

The wastewater is biologically purified within the biological filtration by sessile microorganisms on natural support media.

### Support media

The support media (burnt clay) serves as carrier for the biomass as well as a filtration medium.



### Pumps and Compressors

Generously rated pumps and compressors ensure failure-free throughput.

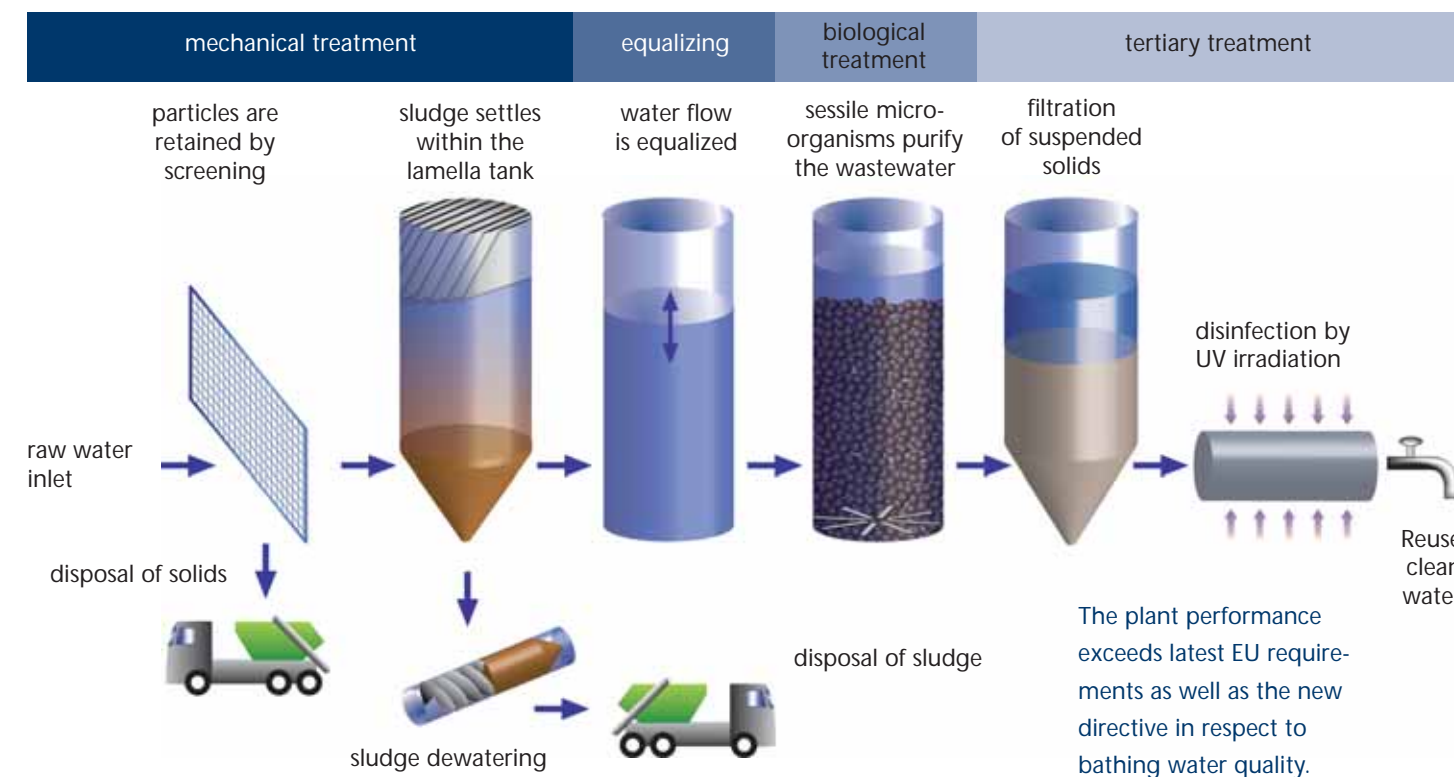


### Switchgear

Centralized switchgear controls all electronics and measurements including remote monitoring and maintenance.



## The process



1. The AQUABIOdom® receives the raw wastewater at inlet point.
2. Within the fine-screening particles larger than 1 mm are retained and automatically bagged in plastic sacks.
3. The wastewater flows into the primary settlement tank (lamella clarifier). Particles and excess biomass settle on the bottom of the tank.
4. Sludge is discharged and dewatered up to 20 % by the screw press for disposal.
5. Owing to the highly effective biological filtration of the wastewater (BOD-degradation and nitrification) within the AQUABIOflux required discharge values are achieved.
6. For reuse e.g. irrigation of golf courses or discharging into bathing waters the water is sandfiltered and disinfected by UV to eliminate bacteria to below 100 E.C. / 100 ml.

## Advantages at a glance

- Wastewater treatment plant exceeding the EU regulations
- Completely indoor plant hence no smell or noise nuisance
- Energy consumption is below 0.3 kWh/m<sup>3</sup> of treated wastewater
- Reduced plant footprint
- Short construction period due to prefabrication
- High technical quality causing outstanding cost-performance ratio
- Highly tolerant to fluctuations in sewage quantity (tourism, golf courts, resorts)
- Suitable for low wastewater temperatures (e.g. skiing areas, Northern countries)
- High flexibility in dimensioning due to modular construction
- Fixed prices guarantee security of investment

main characteristics	hydraulic inlet	organic load	energy consumption	space requirement
AQUABIOdom®	m <sup>3</sup> /d	kg BOD/d	kWh/m <sup>3</sup>	[m] x [m]
1500	375	90	0,32	25 x 10,40
2500	550	150	0,27	25 x 11,40
5000	1.100	300	0,18	25 x 12,40

operating results	BOD <sub>5</sub>	COD	NH <sub>4</sub> -N	PO <sub>4</sub> -P	SS	Bacteria
unit	mg/l	mg/l	mg/l	mg/l	mg/l	E.C. / 100 mL
AQUABIOdom®	< 10	< 60	< 2	< 2	< 5	---
AQUABIOdom® option golf	< 5	< 30	< 1	< 1	< 3	< 100

AQUABIOdom



For 1000 – 5000 Population Equivalents

# AQUABIodom®

Compact advanced wastewater treatment plant



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## AQUABIodom® the full service

### Consists of:

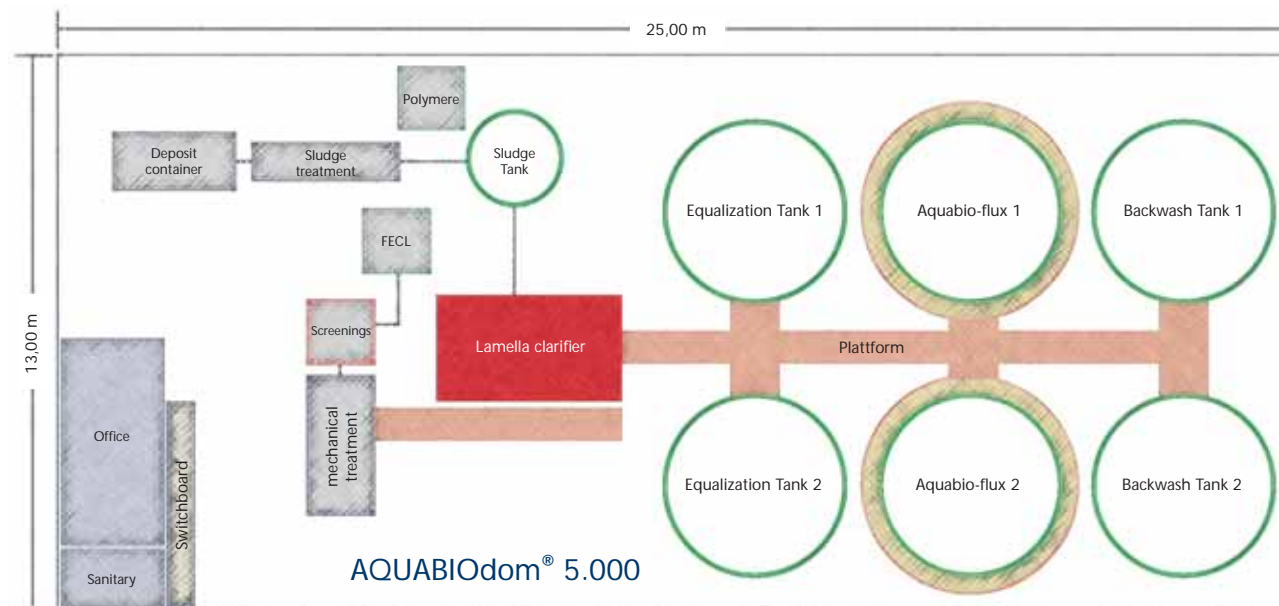
- Building
- Technical equipment
- Electrical equipment incl. remote monitoring
- Office and sanitary room
- Full mounting and startup



Possible façade colors



The plant can also be installed in a building according to local architecture style.



Exploit the large roof area by installing a solar power plant.

Option to install a solar power plant on the sun facing side of the roof that produces up to 45.000 kWh/a. Produced electrical energy can be utilized to reduce operating costs and/or can be profitably sold to local electricity utility companies.



**AQUA  
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