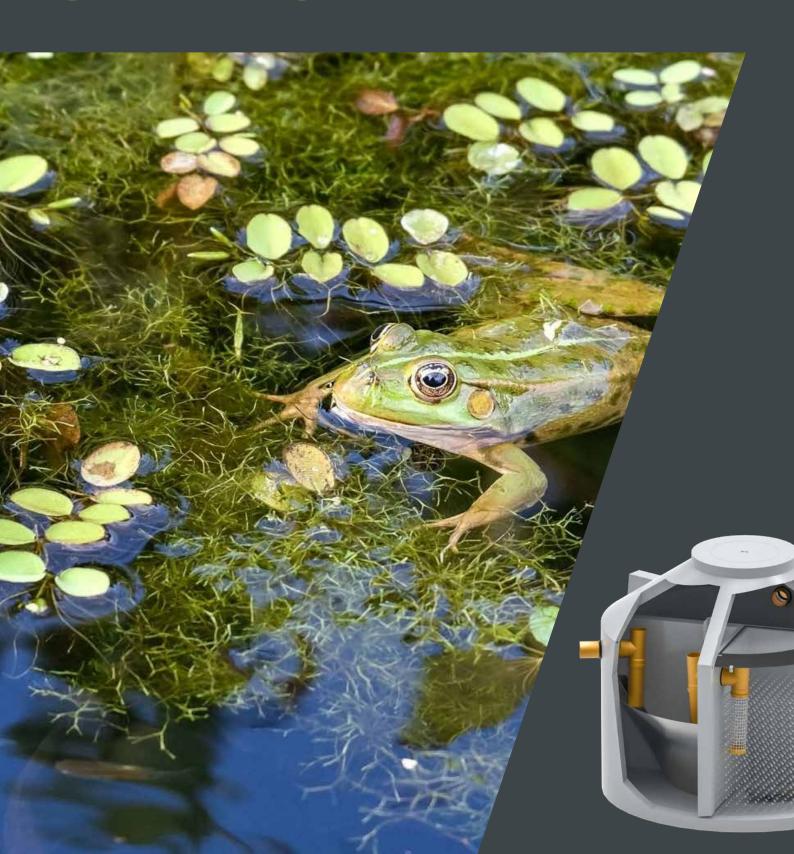


Fully Biological Wastewater Treatment in MBBR Process





MBBR

Moving Bed Bioreactor Plants in Gravity Flow

Proven **Solutions**for fully Biological Wastewater Treatment

Although most households are connected to the sewage system, in rural areas this connection is often not possible and therefore your own responsibility as a landowner is required. The wastewater must be removed in such a way that the valuable groundwater is not endangered.

The AQUATO® sewage plants are energy efficient and highly effective. Our moving bed system provides exceptional stability, using well-established components with the best technology available today. The system is wear-resistant and easy to install, making regular maintenance effortless.

The biofilm system contains state-of-the-art technology.

It can be used in new plant constructions or for retrofitting.

MBBR

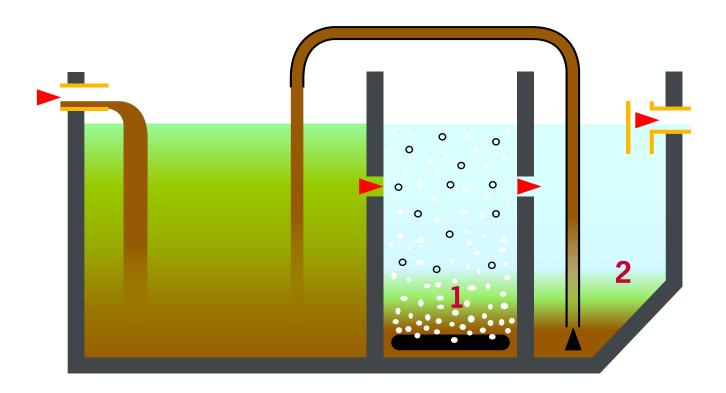
High, Reliable Cleaning Performance

Domestic wastewater is safely treated by the MBBR process

The first chamber of the wastewater treatment plant is used for the separation of solids (primary treatment).

Afterwards, the wastewater flows into the second chamber for biological treatment. Here, a plate diffuser is installed on the floor, which mix the wastewater and the bio-carriers (1) with a precisely defined amount of air at regular intervals. The microorganisms living in the wastewater grow on the bio-carriers as a "biofilm". In this compound, they perform excellent purification.

Surplus sludge settels down in the third chamber. From there this sludge is pumped back to the primary treatment by an air lift (2). Finally the treated clear water leaves the plant.



- + Electronic Free Tank Equipment
- + Energy Efficient and Powerful
- **★** Safe Underload Capability
- + Retrofitting in Existing Plants

The 3K FLOW is a small wastewater treatment plant wich works according to the moving bed system and is therefore particularly well suited for situations with strong inflow fluctuations and permanent underload operation.

The retrofit kit can be installed in three-chamber tanks. A cover on the reactor chamber as well as the special overflow baffles in the partition walls guarantee a safe retention of the bio-carriers!

The fine-structured bio-carriers provides an optimal amount of growth area. A membran diffusor at the reactor buttom ensures a good supply of oxygen to the microorganisms. The system works wear-free in the tank or in the area of the wastewater.



Components & Accessories

- ★ Easy to Install System
- + Modular System Design
- + Optimum Cleaning Performance from just 1 Person



Alternatively interchangeable with partition wall elevation

Surplus Sludge Lifter

Control

& Outdoor Cabinet Solutions





Control

State-of-the-art computer control unit **D-Pilot 18.3** with a large graphic display. It provides all important data at a glance. To minimise maintenance efforts, there is an integrated backpressure monitoring system.

Standard equipment is the D-Pilot 18.3. In this control unit there is for example the possibility to connect a clear water pump or a surplus sludge pump, whereby even larger lifting heights can be bridged.



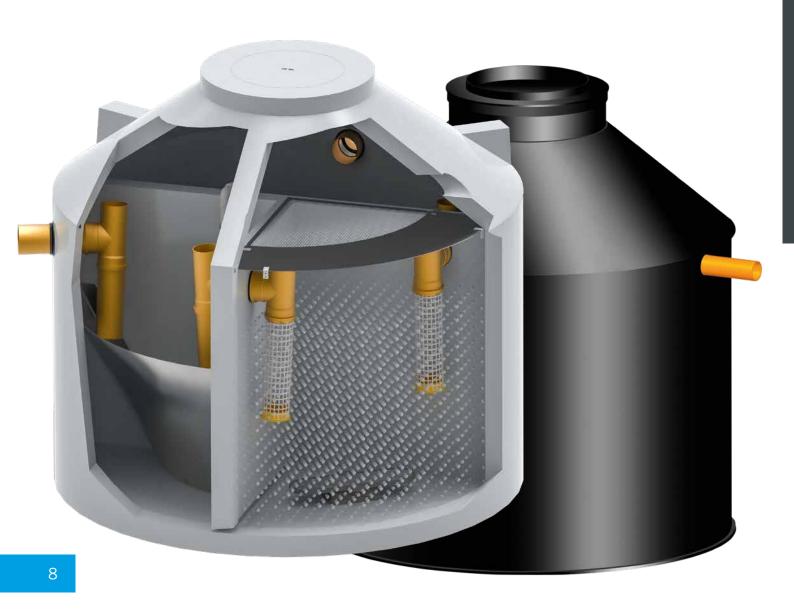
New Construction and Retrofitting made easy!

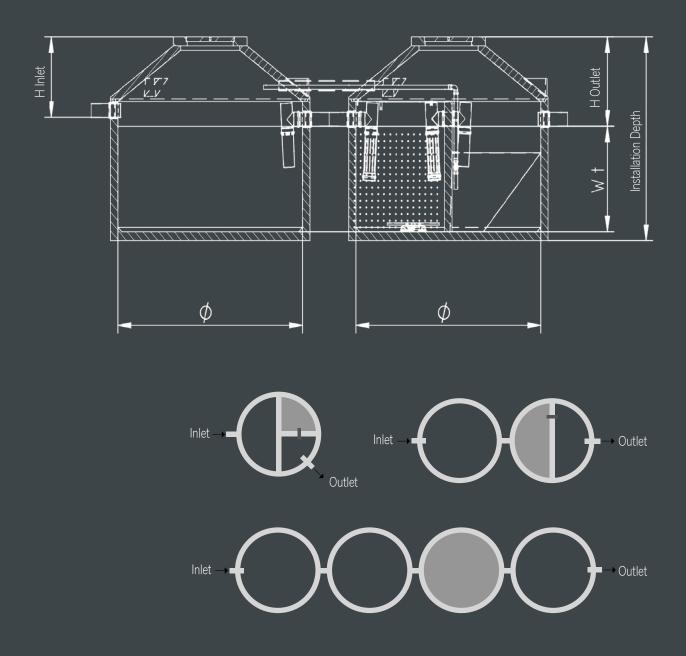
Flexible Use in Concrete or Plastic Tanks

The AQUATO® system 3K FLOW can be integrated into a concrete or plastic tank, as new construction or retrofitting.

Individual adaptation to old tank sizes is possible.

Your fully biological sewage treatment plant can be set up in no time at all!





Variable

Installation Options

The AQUATO® system 3K FLOW is very flexible for sewage plants up to 50 persons. It can be used in 1-tank systems as well as in multi-tank systems.

Notes

Underload!

The AQUATO® sewage plants offer full cleaning power - from just one person and with low water consumption! But even after your vacation or any other break it immediately continues - always reliable with maximum operational safety and compliance with the legal discharge values.

Declaration of Performance

According to European guidelines, the AQUATO® small sewage treatment plants are examined and documented for all their standardized effectiveness parameters by notified bodies. The plants are well tested on test fields and a declaration of performance from the manufacturer according to EN 12566-3 is available.

If required, declarations of performance for our systems can be requested from AQUATO® using the contact options below:

fon +49 5221 10219-0 info@aquato.de





Gardenfriendly installable!

















Presented by:

AQUATO® Umwelttechnologien GmbH

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