

BIOLOGICAL WASTEWATER TREATMENT

Flexible, reliable & economical in Operation –
DAS complete Solutions for your Wastewater Treatment with the MBBR Process

The MBBR process (Moving Bed Biofilm Reactor) is a technology for biological wastewater treatment. In this process, microorganisms are cultivated as a biofilm on carrier material. These microorganisms are responsible for the degradation of both organic wastewater constituents and nitrogen compounds. Similar to other biological processes, wastewater treatment using MBBR bioreactors also produces excess sludge. However, the amount is significantly less than in conventional activated sludge processes with similar capacity. Additionally, because of the microorganisms living in biofilms, the MBBR treatment process is very robust and much more stable than other biological treatment technologies.

MBBRs function well even under challenging conditions, and they recover very quickly after downtimes. This makes them a very resilient solution for industrial wastewater treatment.

Whether new construction, expansion or optimization of an existing wastewater treatment plant – as specialists for the biological treatment of industrial wastewater using the MBBR process, we, the **DAS Environmental Experts**, are a full-service provider that takes on all tasks involved.

All MBBR Systems offer the following Benefits:

- › Compact biological treatment process
- › High performance
- › Easy to operate
- › Great stability even under difficult operating conditions
- › Low waste sludge production
- › No recirculation of biomass

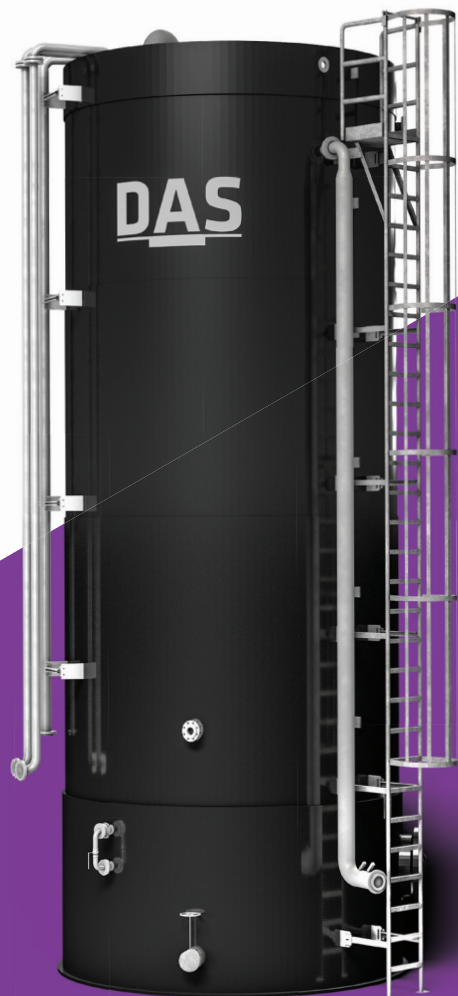
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SALVINIA

Modular MBBR Reactors in four standard Sizes

As specialists for the biological treatment of industrial wastewater with the MBBR process, we apply special carrier materials. It is characterized by a very high specific surface area. This makes the process highly efficient and enables a unique compact plant design. In the new SALVINIA product group, we combine effectiveness and compactness with time and cost advantages for our customers.

We offer MBBR reactors in four different sizes: SALVINIA 70, SALVINIA 170, SALVINIA 470 and SALVINIA 1060. Through this kind of standardization, we significantly reduce lead times and enable high cost saving potentials.

Depending on your needs, DAS MBBR reactors are of course also available in customized sizes.

Standard Equipment

- › Inlet flow control
- › MBBR tank with air input system & control of water level, pH, oxygen concentration & temperature
- › Dosing stations for nutrients (nitrogen & phosphorus) as well as a defoamer
- › Blower station for air supply & mixing
- › Drain line
- › Biofilm control system
- › Smart sensors
- › Power supply
- › Frequency converter for blower
- › Automation system

Optional Equipment

- › Pre-treatment
- › Post-treatment
- › Ejector aerators
- › Energy efficiency packages
- › Customized redundancy packages
- › DAS Solutions Hub

Technical Data

System	Customized	70 m³	170 m³	470 m³	1060 m³	Customized
Degradable COD load	< 100 kg/d	100 - 500 kg/d	250 - 1.000 kg/d	1.000 - 3000 kg/d	2.000 - 6.500 kg/d	> 6.500 kg/d
Volume Flow	< 200 m³/d	200 - 750 m³/d	750 - 2.000 m³/d	1.500 - 5.500 m³/d	3.000 - 13.000 m³/d	> 13.000 m³/d
Reactor size (D/H)	customized	3,3 / 9,0 m	5,1 / 9,2 m	8,5 / 9,2 m	12,8 / 9,2 m	customized

