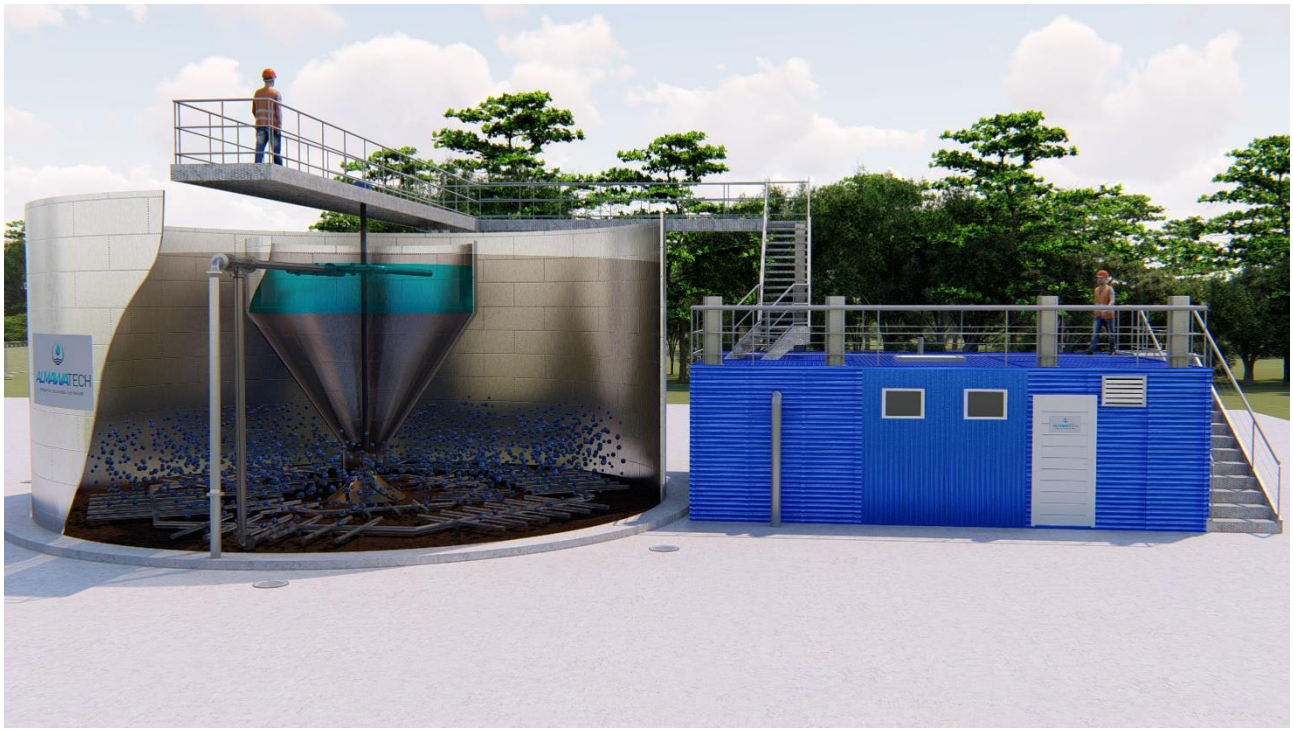
ALMA BIO BBI

Membrane reactor ALMA BIO BBI



The ALMA BIO BBI system consists of a bioreactor in the form of an open tank with a centrally installed lightweight sedimenter for biomass separation. This configuration enables efficient biological degradation of the organic wastewater constituents and thus a high COD reduction. The process is controlled via our ALMAVision software, based on the Siemens TIA portal. The touch panel in the control cabinet is 9'' as standard and can be adapted to customer requirements. As an option, the system can be supplied in a dedicated technology container (ALMA module), which contains all the system units and control technology. The hydraulic output varies depending on the wastewater quality and can be up to 30 m³/h.

Applications

- Food industry
- Beverage industry
- Dairies and Cheese factories
- Biodegradable industrial wastewater
- Vegetable and fruit processing
- Breweries

Specifications

- Activated sludge process with fine bubble membrane aeration
- Integrated sedimentation with mammoth pump
- Hyperboloid agitator for biomass recirculation
- Individual dimensioning according to wastewater volume and concentration

Advantages

- Easy maintenance and cleaning
- Insensitive to high salt loads
- Efficient biomass retention
- Low energy requirement due to highly efficient aeration system

ALMAWATECH GmbH - Your plant manufacturer and service provider in industrial water and wastewater technology offers everything from a single source

Analysis & Optimization

Planning & Consulting

Water chemicals

Operations Management

Plant engineering

Wastewater and process water

- Treatment for direct and indirect dischargers
- Pre- and post-treatment of wastewater
- Process water Recycling
- Ultrapure water production
- Individual system solutions for all branches of industry

Procedure

- Biological (aerobic/ anaerobic/ anoxic)
- Precipitation, flocculation and neutralization
- Filtration & reverse osmosis
- Oxidation & hygienization
- Modular systems

Specialized water chemicals from ALMAWATECH for wastewater applications, cooling water circuits, membrane systems and boiler plants.