

ALMA BHU BIO EGSB

2-stage, high-performance anaerobic reactor according to EGSB method



The ALMA BHU EGSB (Expanded Granular Sludge Bed) biogas reactor, with a construction height of 18 to 24 meters, has two gas collection devices. This enables a high biomass concentration and high organic loading rates. Compared to 1-stage biogas reactors, only half the space is required due to the efficient biomass retention. Reactor sizes of 350 to 1,000 m³ with COD loads of up to 25 kg/(m³-day) can be realized. For more extensive treatment of the wastewater, the process can also be expanded to include phosphorus and nitrogen elimination

Applications

- Food and beverage industry
- Milk processing
- Potato processing
- Chemical industry

- Bioalcohol
- Alcohol production
- Paper industry
- Bio-anaerobically degradable waste water

Specifications

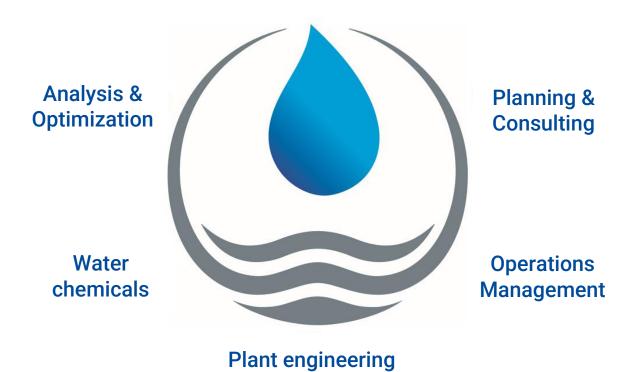
- Proven 2-stage EGSB design
- Welded steel/stainless steel reactor
- Integrated biogas storage in the reactor dome
- Complete biogas safety technology in accordance with legal requirements

Advantages

- Space-saving design
- No odor emissions
- High biogas yield
- Efficient biomass retention
- High-performance recirculation to increase biogas yield



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



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.