



# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

## 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 m<sup>3</sup> with COD loads of up to 25 kg/(m<sup>3</sup>-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



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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.