

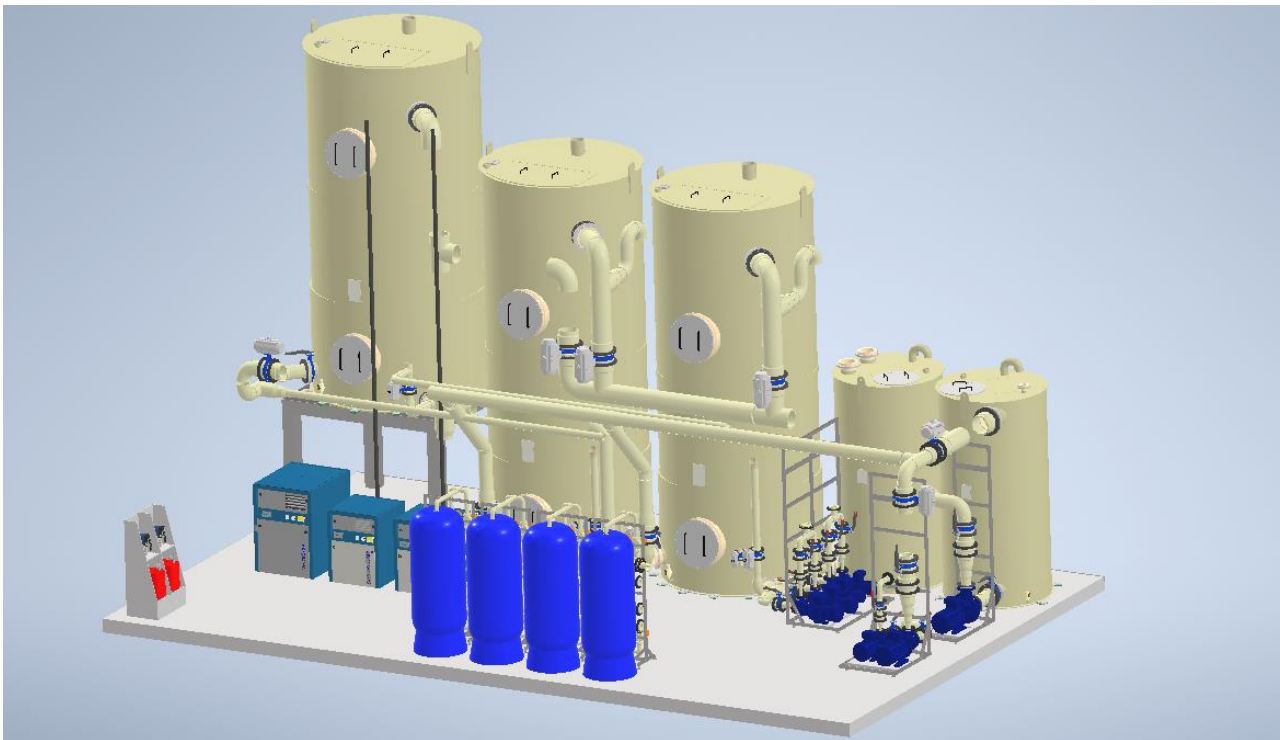


ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

ALMA BioFil Compact

Biofiltration in plastic construction



The **ALMA BioFil Compact** represents an extremely efficient biological treatment method that has an excellent elimination capacity for organic contaminants thanks to the high biomass concentration. The aerobic microorganisms colonize special inorganic growth media, such as clay granulate. Thanks to the continuous oxygen supply and regular automatic backwashing for growth control, the filter guarantees extremely reliable process stability. In addition to carbon degradation, nitrification and denitrification also take place thanks to sophisticated process control. The space requirement of the ALMA BioFil Compact is only around 50 % compared to conventional biological treatment plants. The main applications are the treatment of water circuits and permeates, operational water reuse and the elimination of trace substances. Due to the efficient degradation of organic impurities, the process is used for the pre-treatment of reverse osmosis systems and cooling circuits in order to minimize organic deposits and biofouling in the systems.

Applications

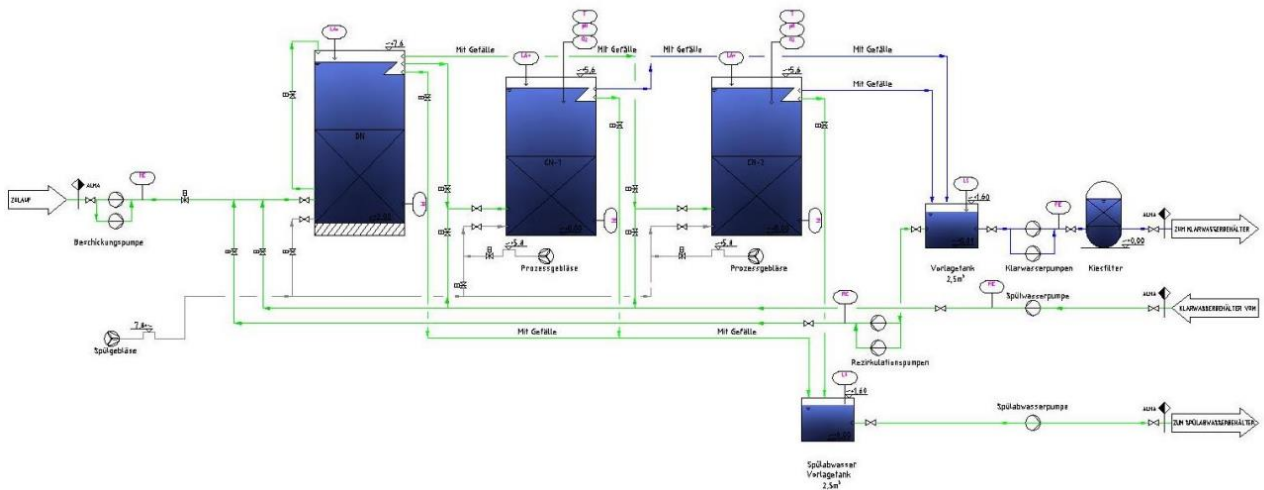
- Elimination of trace substances
- Water reuse
- Pretreatment
- Food industry
- Dairies
- Breweries



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Process flow diagram



Specifications

- Hydraulic capacity of 10-1,000 m³/h
- Plastic containers or concrete basins depending on the throughput
- Easy operation and maintenance
- Automated backwash process
- Individual growth bodies

Advantages

- Small space requirement
- High COD cleaning performance
- Modular design
- Also suitable for cold water temperatures and high salt concentrations
- Robust plant technology



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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.