



ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

ALMA CHEM MCW Modular

Chemical-physical plant



The state-of-the-art, modular ALMA CHEM MCW Modular wastewater treatment plant was specially developed for the challenging task of treating wastewater containing heavy metals, particularly in remote regions with extreme climatic conditions. The system is particularly effective in the removal of pollutants such as AOX, hydrocarbons and heavy metals. As standard, the system is operated with neutralization precipitation and sludge treatment. For high wastewater loads, a 2-stage sulphide precipitation is also possible.

The outstanding feature of this system is its modular design, which allows the plant to be expanded extremely cost-effectively, whether due to increases in production or stricter limit values. This flexibility means that the system can be extended to include a reverse osmosis unit, for example, which enables the purified water to be reused sustainably as process water.

Applications

- Mine wastewater
- Metalworking industry
- Surface coating
- Electronics
- Refineries
- Milk processing plants

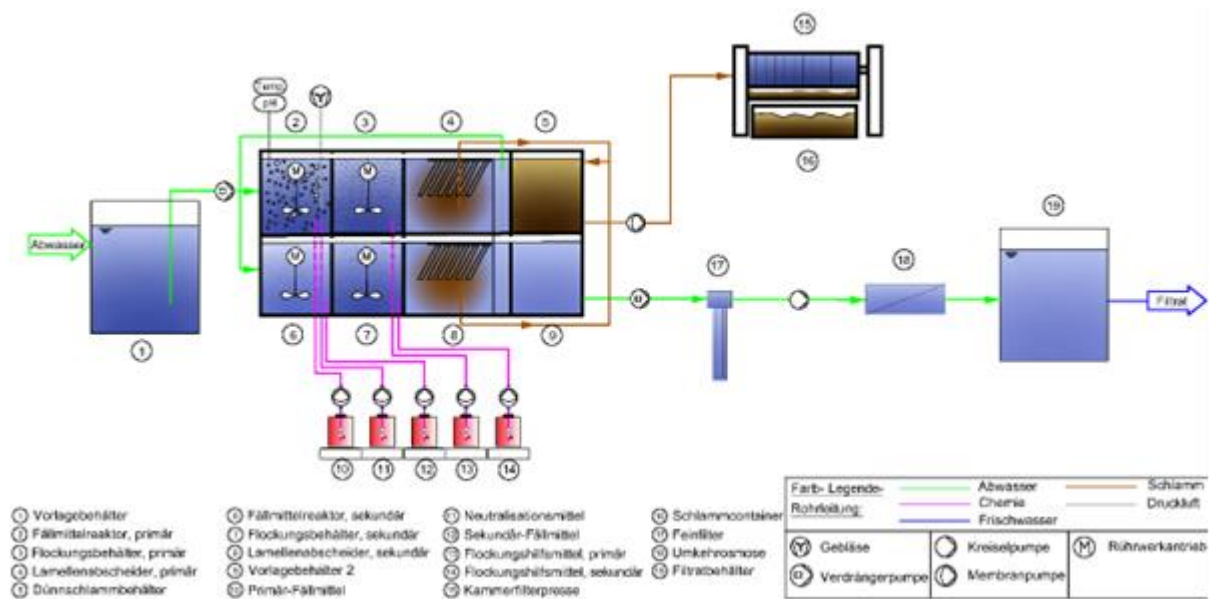


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Process flow diagram (example plant)

2-stage precipitation (neutralization precipitation & Sulfid precipitation) incl. sludge treatment and reverse osmosis for water recycling



Specifications

- 2-stage precipitation possible
- Sophisticated sludge treatment
- Water reuse through reverse osmosis
- Earthquake-resistant construction
- Flow rates of 50 – 500 m³/h
- Central control with remote control

Advantages

- Flexible use due to modular design
- Very robust for changing loads and also suitable for seasonal operation
- Suitable for extreme climatic conditions
- High cleaning performance of > 99%
- Cost-effective operation due to sophisticated ALMAControl control technology

Reference system in compact design in batch operation





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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.