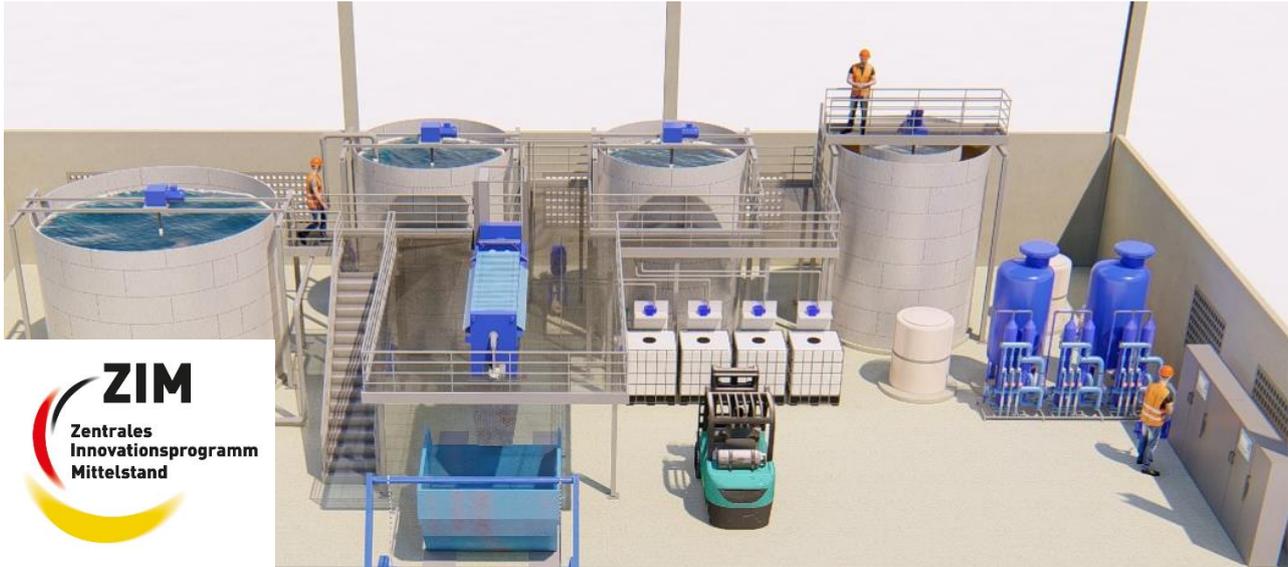


# ALMA CHEM MCW

## Chemical-physical plant More Clean Water



The **ALMA CHEM MCW process** is based on the process steps of precipitation, neutralization, flocculation, detoxification, sedimentation and filtration. It is characterized by extraordinary effectiveness in the elimination of pollutants such as AOX, hydrocarbons and heavy metals. The resulting thin sludge is dewatered using our specially developed ALMA CFP chamber filter press, which leads to considerable savings in disposal costs.

The process is controlled using our ALMAVision software, which is based on the Siemens TIA portal. A 9-inch touch panel is available in the control cabinet for visualization and control, which can be adapted to the individual requirements of our customers. As an option, the entire system can be integrated into a special technology container (ALMA module), which houses all the system units and control technology.

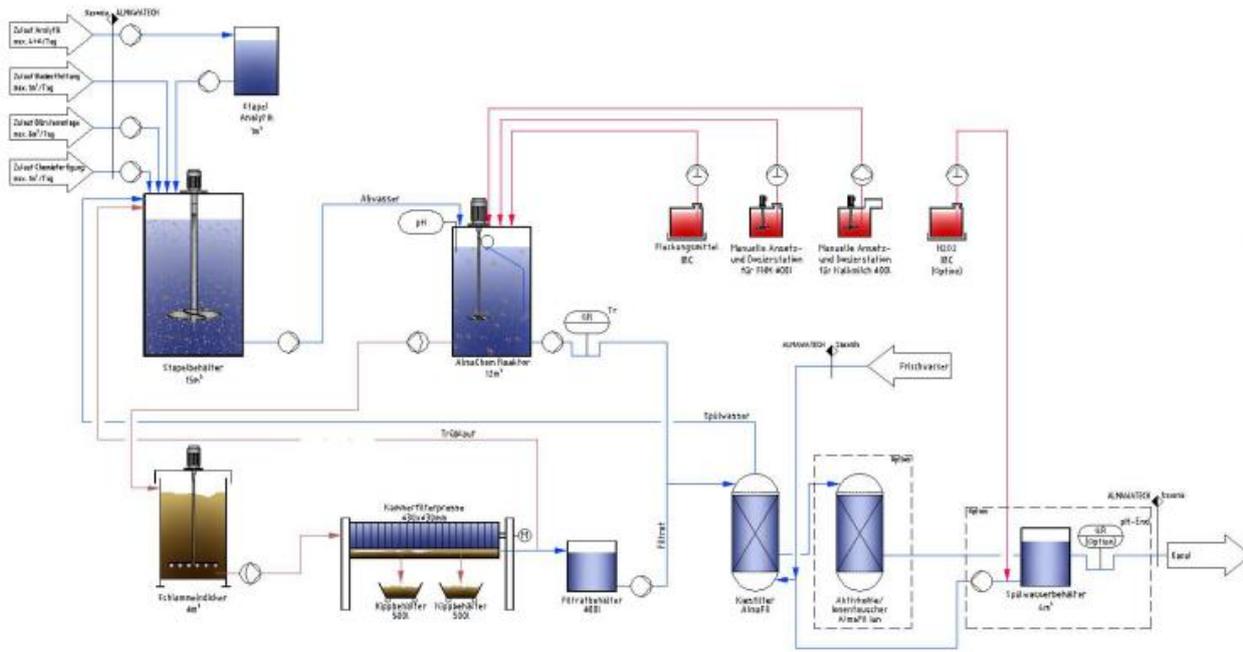
### Applications

- Pre-treatment non-food
- Surface coating
- Paints and coatings industry
- Heavy metal removal
- Pharmaceutical and cosmetics industry
- Metallurgy and Electronics

### Technical versions

Type					
Continuous systems [m <sup>3</sup> /h]	2	5	10	20	30
Batch plants [m <sup>3</sup> ]	2 x 10	2 x 15	2 x 20	2 x 25	-

## Process flow diagram (example plant)



## Specifications

- Batch or continuous systems
- 2-stage precipitation systems
- Sophisticated sludge treatment
- Post-treatment activated carbon & ion exchangers
- Treatment by neutralization, flocculation, precipitation, detoxification, sedimentation, filtration & individual adjustments

## Advantages/ Special features

- Flexible use due to variable choice of treatment agents
- Resistant to changing loads
- Corrosion-resistant material made of PP
- Effective simultaneous precipitation
- Cost-effective operation due to sophisticated ALMAControl control technology

## Reference plant





# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

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.