



# ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

## ALMA NeoDAF HD

Dissolved air flotation plant for the treatment of industrial wastewater



The **ALMA NeoDAF HD** is a dissolved air flotation system that offers fully automatic treatment of wastewater according to the process principles of hydroxide precipitation, neutralization and flocculation. The compact system was designed for the treatment of medium to highly contaminated wastewater from the food and non-food industries. With the help of neutralization precipitation and flocculation, wastewater constituents such as COD, hydrocarbons, heavy metals, AOX or lipophilic substances are flocculated and bound in the flotatate sludge.

This innovative system is controlled and monitored by the ALMA-Vision software, based on the Siemens TIA portal. The dissolved air flotation system is characterized in particular by its energy-efficient air saturation system and the patented control system for dosing the operating media.

### Applications

- Food industry
- Plastics
- Recycling industry
- Tank cleaning and oily wastewater
- Industrial washing
- Laboratory and cosmetics industry
- Removal of microplastics
- Pre- and post-treatment



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## Technical versions

| Type      | Flow rate [m <sup>3</sup> /h] | Dimension [mm]    | Air saturation system | Compressed air | Power Connection |
|-----------|-------------------------------|-------------------|-----------------------|----------------|------------------|
| DAF 5000  | 3-7 m <sup>3</sup> /h         | 2.800x1.600x2.200 | NeoDAF Bubble Booster | 1 / 4" / 6 Bar | 2 kW/h           |
| DAF 10000 | 8-12 m <sup>3</sup> /h        | 3.800x1.600x2.200 | NeoDAF Bubble Booster | 1 / 4" / 6 Bar | 2 kW/h           |
| DAF 15000 | 13-17 m <sup>3</sup> /h       | 4.800x1.600x2.200 | NeoDAF Bubble Booster | 1 / 4" / 6 Bar | 3 kW/h           |
| DAF 20000 | 18 - 22 m <sup>3</sup> /h     | 5.800x1.600x2.200 | NeoDAF Bubble Booster | 1 / 2" / 6 Bar | 5 kW/h           |

\*also available with downstream filtration

## Specifications

- Integrated pre-treatment and conditioning
- Inline precipitation, neutralization & flocculation
- Energy-saving air saturation system
- Inline pH & flow measurement
- Circulation in start-up phase
- Integrated scraper system
- Process control with ALMA-Vision software
- Patented control system to save operating resources

## Advantages

- Low, specific energy consumption
- Compact technology thanks to integrated pre- & post-treatment
- Removal of hydrocarbons
- Removal of lipophilic substances
- High reduction of COD and BOD
- High reduction of filterable substances
- Heavy metal precipitation possible
- Adjustable bubble booster valve



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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.