

ALMA NeoDAF BLUE

Dissolved air flotation plant for the treatment of industrial wastewater



The ALMA NeoDAF BLUE dissolved air flotation system was developed as part of a BMWi-funded project and represents an innovative improvement in flotation technology. The compact system was designed for the treatment of low to medium 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 flotated 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 processing
- 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	Dimension [mm]	Air saturation system	Compressed air connection	Power Connection
DAF 1500 FIL	1 -2 m ³ /h	950 x 900 x 2,500	NeoDAF Bubble Booster	1/4"/6 Bar	2 kW/h
DAF 3000 FIL	2 - 4 m ³ /h	1,400 x 900 x 3,000	NeoDAF Bubble Booster	1/4"/6 Bar	3 kW/h
DAF 6000 FIL	5 - 7 m ³ /h	1,800 x 900 x 3,500	NeoDAF Bubble Booster	1/4"/6 Bar	4 kW/h

Specifications

- Integrated pre-treatment and conditioning
- Inline precipitation, neutralization and flocculation
- Efficient air saturation and microbubble generation
- pH & flow measurement and control
- Circular management in start-up phase
- Integrated clearing system and filtration
- Process control with ALMAVision software

Advantages

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

Reference plant





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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.