

➤ High-tech ➤ Compact ➤ Powerfull




AVEKA
ENVIRONMENTAL TECHNOLOGIES

SEAL SERIES



SEAL SERIES MIKROFLOTASYON DAF

The SEAL Series Microflotation DAF System is a **new generation** dissolved air flotation system developed for **high-efficiency** oil and grease removal in industrial applications. The system delivers high treatment efficiency by generating denser and ultra-fine air bubbles within the wastewater.

Key Benefits

- ✔ Manufactured from stainless steel, polypropylene, or epoxy-coated carbon steel.
- ✔ Average 40% less chemical consumption
- ✔ Compact footprint and low noise level
- ✔ Up to 90% oil & grease removal
- ✔ 50% lower energy consumption
- ✔ High density sludge formation
- ✔ Fully automatic operation
- ✔ Ultra-fine microbubbles

Compact Design

Unlike conventional systems that require extensive equipment and complex piping, the microflotation DAF system produces microbubbles solely by means of the DAF pump. With its **compact and innovative design**, the SEAL Series is an ideal solution for both new installations and the integration into existing wastewater treatment plants.



Turn-Key Solution

The system is delivered as a complete turnkey package, including a DAF pump, flotation tank, oil skimmer, balancing tank, and an integrated control panel. Equipped with advanced online analyzers, the system enables **continuous monitoring** of process parameters and automatically adjusts chemical dosing to maintain optimum treatment performance.



Project Specific System

The treatment process is customized according to industry-specific needs. To **maximize the removal efficiency** of emulsified oils, an optional chemical dosing system can be seamlessly integrated into the process. A **high-performance flocculation unit** uniform and effective mixing of chemicals with the wastewater, resulting in enhanced treatment efficiency.

Wastewater Treatment Applications

- ✔ Effluent Treatment for Vehicle Washing Outlets
- ✔ Membrane Systems Pre-treatment
- ✔ Fibre Recovery in Pulp & Paper Mills
- ✔ Fish, Meat & Livestock Processing
- ✔ Snack Food Production
- ✔ Pharmaceuticals
- ✔ Breweries
- ✔ Bakeries
- ✔ Textiles
- ✔ Dairies

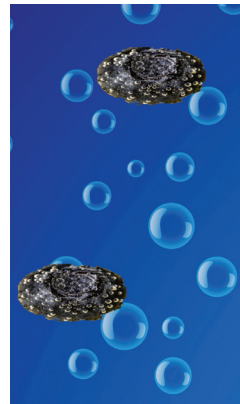


High-Tech & Powerful

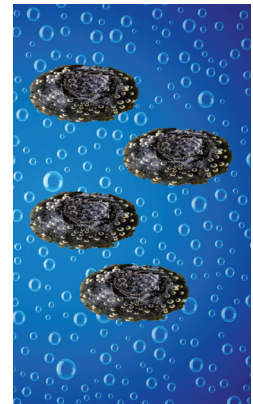
The Microflotation DAF Pump is a high-performance unit designed to generate ultra-fine air bubbles. Thanks to its unique design, the air-water mixture forms a cloud-like, homogeneous structure, maximizing flotation efficiency. Microflotation technology delivers outstanding flotation efficiency through **finer bubbles, longer contact time, and improved flotation stability**. As a result, contaminants are rapidly lifted to the surface and efficiently separated from water.

Technical Advantages

- ✔ Generates ultra-fine bubbles, up to 10 times smaller than conventional DAF.
- ✔ Increased air-water surface area, resulting in superior flotation performance
- ✔ Extended wastewater-air contact time for more effective separation
- ✔ Enhanced attachment to oil droplets and suspended solids
- ✔ Bubble Size: 4-13 μm



Conventional DAF
(coarse air bubbles)



Microflotation DAF
(ultra-fine microbubbles)

Our strategic partner
for DAF pumps



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