

➤ High-tech ➤ Compact ➤ Powerfull




AVEKA
ENVIRONMENTAL TECHNOLOGIES

SEAL SERIES



SEAL SERIES MICROFLOTATION 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
- ✓ Membrane Systems Pre-treatment
- ✓ Fibre Recovery in Pulp & Paper Mills
- ✓ Fish, Meat & Livestock Processing
- ✓ Snack Food Production
- ✓ Pharmaceuticals
- ✓ Breweries
- ✓ Bakeries
- ✓ Textiles
- ✓ Dairies

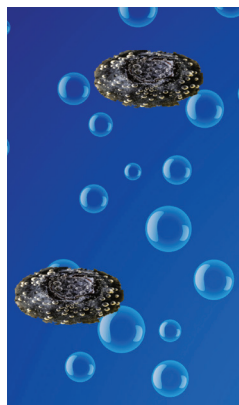


High-Tech & Powerful

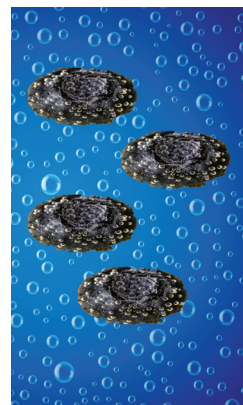
The Microflotation DAF Pump is a high-performance unit designed to generate ultra-fine air bubbles. Thanks to its unique design, the air–water mixture forms a cloud-like, homogeneous structure, maximizing flotation efficiency. Microflotation technology delivers outstanding flotation efficiency through **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



NIKUNI



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