

Overview

Dissolved Air Flotation (DAF)

Nordic Water Dissolved Air Flotation systems provide reliable removal of suspended solids (SS), fats, oils, grease (FOG), and organic load from challenging wastewater streams. Engineered for high performance across industries such as food processing, energy, chemicals, and municipal applications, our DAF solutions ensure consistent effluent quality and support compliance with stringent regulatory requirements.

Built in durable stainless steel and available in high-rate, compact, and open-tank configurations, Nordic Water DAF systems offer efficient solid-liquid separation, easy integration, and low operational cost. With plug-and-play design, non-proprietary components, and automated controls, our DAF units are designed to maximize uptime while simplifying maintenance.



DAF works by dissolving air into a pressurized recycle stream of clarified effluent. When released into the tank, microbubbles attach to solids, oils, and grease, lifting them to the surface for skimming. Clarified effluent exits for reuse or discharge. Nordic Water high-rate designs use plate packs, to boost separation efficiency, cut energy use, and shrink system footprint.

Key features

- High-efficiency removal of TSS, FOG, BOD, and COD
- Multiple configurations: high-rate, compact, and open-tank designs
- Non-proprietary pumps with angled air dissolving tubes
- Sludge dewatering grid option for drier, denser sludge
- Corrosion-resistant stainless-steel construction with alloy options
- Fully customizable system configuration including skids, catwalks, and controls

Specifications

- **Flow rates:** Up to 454.2 m³/h
- **Free area:** 0.5 – 46.5 m²
- **Effective area:** 3.3 – 288+ m²
- **Construction:** Stainless steel (304, 316, duplex, or custom alloys)

Applications

- Food and beverage wastewater treatment (meat, poultry, dairy, breweries)
- Oil and gas, petrochemical, and refinery effluent treatment
- Pulp and paper and chemical manufacturing facilities
- Municipal wastewater pretreatment and sludge thickening
- Mining, landfill leachate, and renewable fuels industries
- Any application requiring solids, FOG, or BOD/COD reduction

Why choose a Nordic Water DAF system?

With hundreds of installations worldwide, Nordic Water is a leader in Dissolved Air Flotation technology. Our stainless steel DAF systems combine efficiency, low maintenance, and reliability with non-proprietary components and engineering support—delivering complete solutions that ensure compliance and reduce costs.

How can we help you?
Contact us today to find your best solution.

nordicwater.com



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