

Overview

Dissolved Air Flotation (DAF)

Wastewater Pretreatment



FRC Dissolved Air Flotation (DAF) systems remove TSS, FOG, BOD & COD from industrial and municipal wastewater. Durable stainless-steel designs with high-rate, compact, and open-tank options deliver reliable separation and compliance.

FRC Dissolved Air Flotation (DAF) systems remove Total Suspended Solids (TSS), Fats, Oils & Grease (FOG), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), and other contaminants. Available in high-rate, compact, and open-tank designs, FRC units deliver dependable separation for industrial and municipal wastewater. With stainless-steel construction, plug-and-play setup, and automated controls, our DAF systems ensure compliance while reducing costs.

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. FRC 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 2,000+ GPM
- **Free Area:** 5 – 500+ sq ft
- **Effective Area:** 35 – 3,100+ sq ft
- **Construction:** Stainless steel (304, 316, duplex, or custom alloys)

Applications

- Food & Beverage wastewater treatment (meat, poultry, dairy, breweries)
- Oil & Gas, petrochemical, and refinery effluent treatment
- Pulp & 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 an FRC DAF System?

With hundreds of installations worldwide, FRC 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.



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