

Metso

FlooDaf Microflotation System



Metso FlooDaf® Microflotation is a highly efficient dispersion water system suitable for various water or effluent clarification applications. With more than 500 installations worldwide, this reliable and proven technology has a small footprint and high separation efficiency. It offers excellent performance for fluctuating process water recycling with low maintenance requirements.

How Metso FlooDaf Microflotation works

Microflotation, or dissolved air flotation (DAF), is a well-known method of particle separation. Air is dissolved in water under pressure, forming microbubbles when the pressurized water is released. Chemical, physical, and electrical forces cause the suspended solids and colloids to attach to the air bubbles and each other. These particle flocs then float to the surface and are scraped off. Coagulation or flocculation chemicals are used to enhance the process.

Full service portfolio

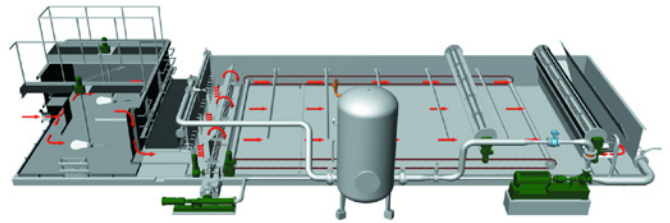
Our extensive service portfolio and customized solutions cover all phases of your plant's life cycle – from maintenance inspections and spare parts to modernization and upgrades. We can develop solutions for individual projects or as part of a broader service agreement.

Our service portfolio includes:

- Maintenance Services
- Spare and Wear Parts
- Upgrades
- Advisory Services
- Operations Services
- Remote Services
- Training Services

Benefits

- Automatic sludge and water-level control
- Good tolerance for hydraulic and solid variations
- No need for external water recycling to stabilize inlet flow
- Low overall capital expenditure and operating costs
- Low maintenance requirements and excellent aftermarket care



Technical specifications

	FlooDaf B24	FlooDaf B74	FlooDaf B149	FlooDaf B208	FlooDaf B186 (2 pcs)
Capacity (m³/h)	150	500	1,000	1,500	2,500
Active surface area (m²)	24	74	149	208	372
Dimensions (W × L × H, m)	3.75 × 8.25 × 1	6 × 14.25 × 1	7.5 × 21.75 × 1	15 × 15.75 × 1	13.5 × 15.75 × 1
Inlet water flow (m³/h)	150	500	1,000	1,500	2,500
Consistency, TSS (mg/l)	≤3,000*	≤3,000*	≤3,000*	≤3,000*	≤3,000*
Clarified water (mg/l)	≤20	≤20	≤20	≤20	≤20
Materials	Wetted parts AISI 304 or better, outside support structure AISI 304 or better				
Shipment	Unit shipped in the following main blocks: input element, side elements, bottom plates, output element, and sludge rolls				
Construction	Delivered sections are welded together on site and installed on a concrete base Base tolerance: ±4 mm / total area, ±2 mm / 2 m Foundation static load: 12 kN/m²				
Applications in water treatment	Raw water treatment, drinking water treatment, raw material recovery, oil removal, grease separation, metal recovery, deinking process water, resin and extractive removal, paper machine white water treatment, paper machine save-all, waste water pre-treatment, secondary sludge removal, tertiary treatment, water reuse, process water treatment				

*) water specific