



DISSOLVED AIR FLOTATION (DAF) SYSTEM



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DISSOLVED AIR FLOTATION

Low energy consumption
small footprint
large processing capacity

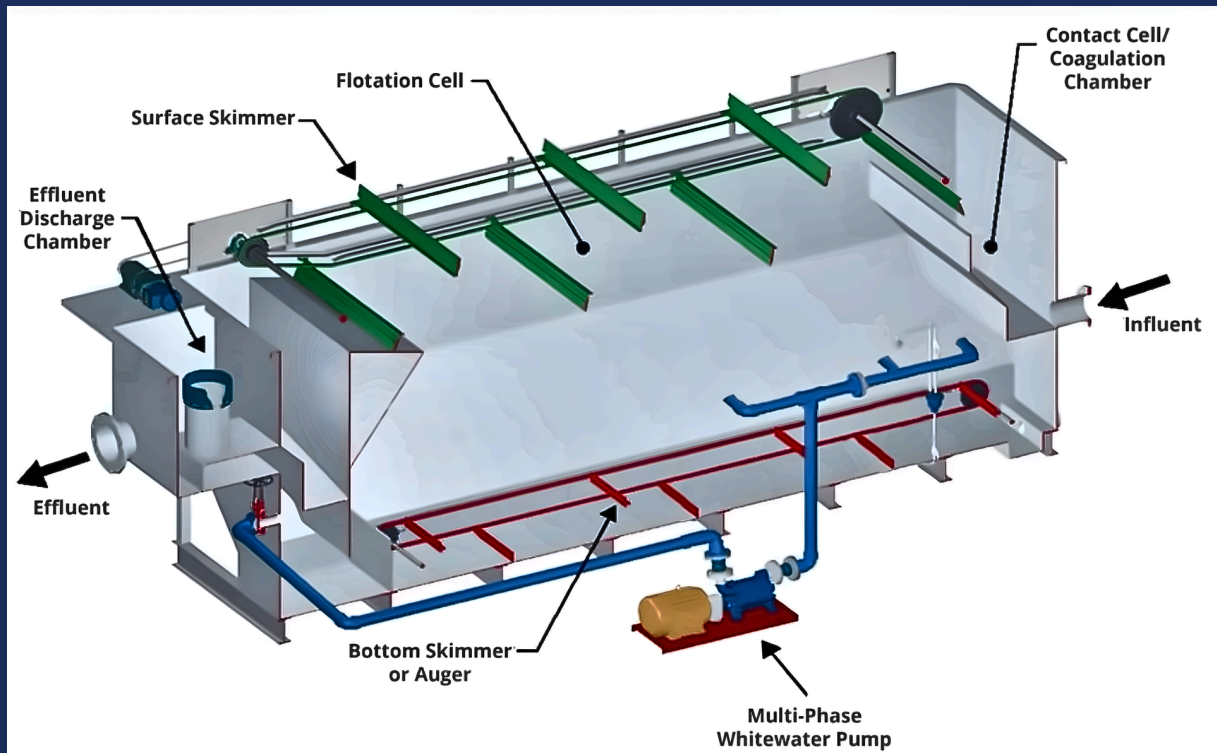


Key Benefits

- **Ultra-Fine Bubbles** : Bubble size $\leq 10 \mu\text{m}$ for superior solid-liquid separation.
- **High Dissolved Gas Efficiency** : Efficiency above 95% for reliable operation.
- **Compact Footprint** : Space-saving design with effluent SS $< 20 \text{ mg/L}$.
- **Automated Operation** : One-button starts with unattended operation.
- **Cloud Digital Service** : Remote monitoring and digital integration available.

Working Principle

The DAF system dissolves air into water under high pressure to create a supersaturated solution. When released into the flotation tank at atmospheric pressure, millions of microbubbles ($\approx 20\text{--}50\text{ }\mu\text{m}$) attach to suspended particles, lowering their density and lifting them to the surface. The floated sludge is skimmed off for further treatment, while clarified water is discharged or reused.



Features



Standard Features

- Bubble Size $\leq 10\text{ }\mu\text{m}$ for efficient flotation.
- Dissolved Gas Efficiency $>95\%$ for stable performance.
- Compact Structure requires less land area.
- Effluent SS $<20\text{ mg/L}$ with proper treatment.
- One-Button Start & Unattended Operation for ease of use.
- Cloud Digital Service Ready for remote supervision.

Option & Accessories

- Various Model Capacities from $5\text{ to }100\text{ m}^3/\text{h}$.
- Carbon Steel Construction as standard (optional upgrades available).

Specifications and Parameters

Model	Capacity (m³/h)	L (mm)	W (mm)	H (mm)	Net Wt (T)	Running Wt (T)	Total Power (kW)	Reflux Pump (kW)	Air Compressor (kW)	Skimmer (kW)	Mixer 1 (kW)	Mixer 2 (kW)	Material
AIM-DAF005	5	2800	1000	2100	3	8	4.75	3	0.55	0.1	0.55	0.55	Carbon steel
AIM-DAF010	10	3200	1200	2200	4	12	4.75	3	0.55	0.1	0.55	0.55	Carbon steel
AIM-DAF025	25	5000	1500	1350	5.5	21	5.85	3.7	0.75	0.1	0.75	0.75	Carbon steel
AIM-DAF050	50	6500	2000	2500	7	36	9.05	5.5	1.5	0.2	1.1	1.1	Carbon steel
AIM-DAF080	80	7600	2600	2600	9	55	11.05	7.5	1.5	0.2	1.1	0.75	Carbon steel
AIM-DAF100	100	8300	3000	3000	12	70	16.2	7.5	2.2	0.4	1.5	1.1	Carbon steel