STANDARD MODEL RANGE

Model	Flow Capacity (m³≥/h)	TSS Range (mg/L)	FOG Limit (mg/L)	Air to Solids Ratio	Flotation Area Range (m²≤)	Pump Power (kW)	Skimmer Power (kW)	Energy Efficiency (kWh/m³≥)	Automation Level
DAF-F-2	2	200 - 5000	< 2000	Variable	0.5 - 1.5	0.75	0.18	0.3	Standard
DAF-F-5	5	200 - 5000	< 2000	Variable	1.0 - 2.5	1.1	0.25	0.28	Standard
DAF-F-10	10	200 - 5000	< 2000	Variable	2.0 - 4.0	2.2	0.37	0.26	Standard
DAF-F-15	15	200 - 5000	< 2000	Variable	3.0 - 5.5	3	0.55	0.25	Standard
DAF-F-20	20	200 - 5000	< 2000	Variable	4.0 - 7.0	3.7	0.75	0.24	Standard
DAF-F-30	30	200 - 5000	< 2000	Variable	6.0 - 10.0	5.5	1.1	0.23	Standard
DAF-F-40	40	200 - 5000	< 2000	Variable	8.0 - 13.0	7.5	1.5	0.22	Standard
DAF-F-60	60	200 - 5000	< 2000	Variable	12.0 - 20.0	11	2.2	0.21	Standard
DAF-F-80	80	200 - 5000	< 2000	Variable	16.0 - 26.0	15	3	0.2	Standard
DAF-F-90	90	200 - 5000	< 2000	Variable	18.0 - 29.0	18.5	3.7	0.19	Standard
DAF-F-100	100	200 - 5000	< 2000	Variable	20.0 - 32.0	22	4	0.18	Standard
DAF-F-120	120	200 - 5000	< 2000	Variable	24.0 - 38.0	25	5.5	0.17	Standard
DAF-F-140	140	200 - 5000	< 2000	Variable	28.0 - 44.0	30	7.5	0.16	Standard
DAF-F-160	160	200 - 5000	< 2000	Variable	32.0 - 50.0	37	9	0.15	Standard
DAF-F-180	180	200 - 5000	< 2000	Variable	36.0 - 56.0	45	11	0.14	Standard

WANT TO LEARN MORE?

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EFFECTIVE AND EFFICIENT INDUSTRIAL WASTE WATER TREATMENT

FlotLife's Dissolved Air Flotation (DAF-F-HDPE) system is designed for the efficient separation of fats, suspended solids, and organic pollutants from wastewater.

Standart specification

- Adjustable effluent outlet
- Tank body made of HDPE or PP
- Duplex structural support frame
- Pipe flocculator with inline mixer
- Service platform
- Air saturation vessel made of Duplex stainless steel
- Centrifugal pump made of industrial plastic
- Sludge hopper with sludge pump
- Control cabinet PLC

Optional features

- Cover with ventilation outlet
- Lamella pack - An advanced system that integrates inclined plate technology for higher efficiency in sedimentation and solid separation.

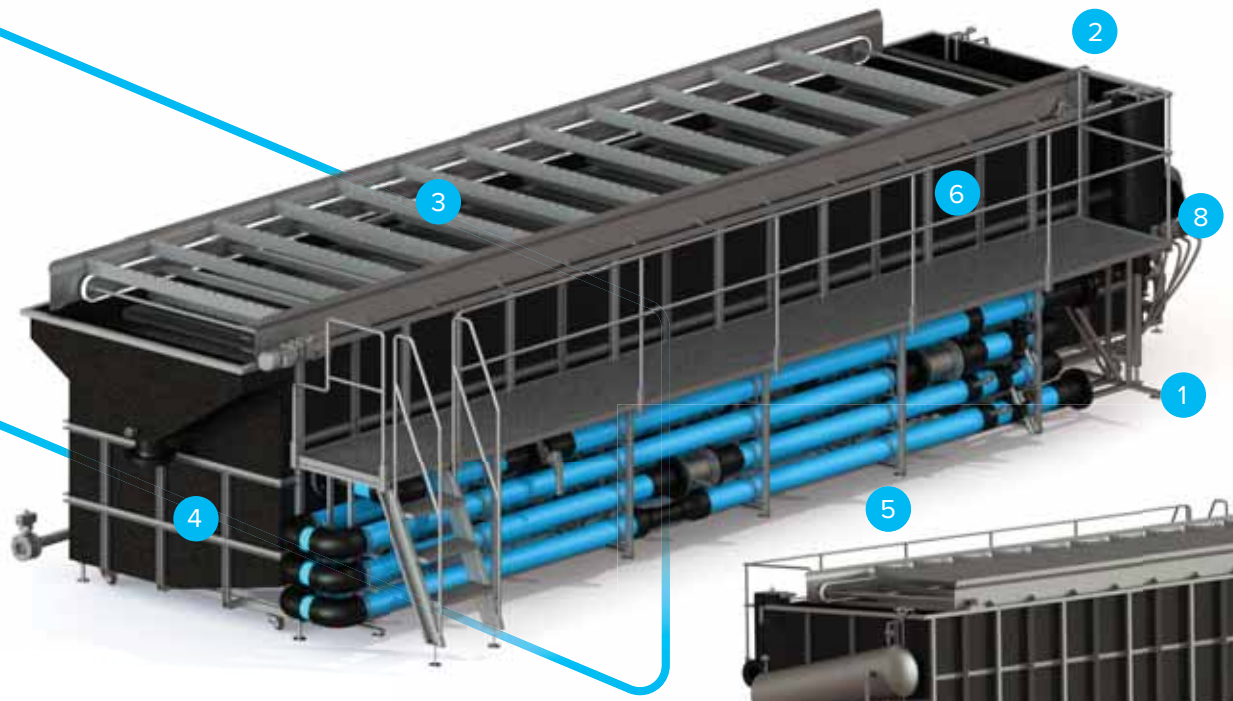
FlotLife

DISSOLVED AIR FLOTATION UNIT DAF-F-HDPE HIGH-DENSITY POLYETHYLENE BODY

That will work for ages in high density salt and chemical environment

Fully assembled Dissolved Air Flotation (DAF) system designed for a flow capacity of 60 m^3/h. Equipped with air injection, flotation, and sludge removal systems for efficient wastewater treatment. Pre-tested and ready for installation at the client's site.

With a well-sized air compressor and saturation vessel, the system can achieve a high level of air dissolution, producing fine microbubbles essential for effective solid separation. Standard pump + compressor systems have been used for decades, so they are widely understood by engineers and operators.



1. Incoming water inlet
2. Saturation chamber
3. Scraper mechanism
4. Treated water outlet
5. Flocculation pipe
6. Flotation tank
7. Circulation pump
8. Control unit

Reduction of pollution achievable by DAF-F

Fats	90%
Oils	90%
Total Suspended Solids (TSS)	90%
Biochemical Oxygen Demand (BOD)	65%
Chemical Oxygen Demand (COD)	65%

These values represent common industry benchmarks for DAF system performance. However, actual efficiency varies based on wastewater

To determine the precise removal efficiency for each specific case, a jar test should be conducted.

ADVANTAGES AND CHARACTERISTICS

- **Recycle-Flow Pressurization** – Enables the system to operate at higher pressures, minimizing the destruction of floc formed in the process flow, thereby increasing overall system effectiveness.
- **Improved Air Saturation System** – The DAF-F uses **50-70% less recycle flow** than conventional DAF systems while introducing the same amount of dissolved air into the flotation tank.
- **Efficient DAF Recycle Pump** – Designed to operate at high pressures, increasing the amount of saturated air by **46% more** than traditional centrifugal pumps.
- **Optimized Use of Coagulants and Flocculants** – Supports stronger floc formation, reduces float volumes and moisture content, and allows the system to operate with a much **lower air/solids ratio and higher solids loading rate.**
- **Compact Design** – With a **high loading rate,** the DAF-F requires only **15% of the space needed** for conventional clarification, making more efficient use of available space.
- **Cost-Effective** – Delivered **pre-assembled and pre-tested** in our controlled facility, often reducing costs by **50% or more** compared to in-situ construction. The DAF-F can also be **integrated into pre-engineered systems** for even greater savings and faster deployment.

DAF-F is ideal for:

- New projects
- Existing plant upgrades
- Replacement plants

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