DAFAST



3RD GENERATION OF FLOTATION: MORE VEOLCITY, LESS FOOTPRINT, MAXIMUN PERFORMANCE





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DAFAST (Dissolved Air Flotation – Fast) is a third generation float that achieves ascending speeds of up to 20 mph (versus 3-4 mph for conventional DAFs), thanks to its turbulent microbubble filter system design.

ADVANTAGES

- High level of suspended solids removed, thanks to:
- a) Separate recirculation and waste.
- b) Greater efficiency of the "bubble filter".
- Optimisation of the space needed to achieve very high speeds.
- No blockages inside the float, as there are no lamellas or restricted speed zones.
- Greater dryness of sludge.
- Convenient purging of decanted matter, thanks to the float's conical base.
- Free pressurization system for blockages with minimal maintenance for the formation of microbubbles with a standard centrifugal pump with a large flow of solids.
- No chains or complicated sludge dredging mechanisms.

FUNCTIONING

- 1. Inlet of the waste to be treated.
- 2. Inlet of pressurised water.
- 3. Microbubble diffusers.
- 4. Microbubble layer (filter).
- 5. Outlet of clarified water.
- 6. Sludge layer.
- 7. Surface sludge scrapers.
- 8. Outlet of floating sludge.





APPLICATIONS

- 1. Industrial wastewater:
 - Food and beverage.
 - Slaughterhouses and meat industries.
 - Dairies.
 - Canned vegetables.
 - Beverage, soft drinks and juices.
 - Canned fish.
 - Oil Industries.
 - Industry chips and snacks.
 - Oil & Gas: refineries, petrochemical, water congenital
 - Chemical and Pharmaceutical Industry.
 - Energy Sector.
 - Mining.
 - Leachate and waste.
 - Manufacture of paper.
 - Textiles.
- 2. Sludge thickening.
- 3. Water purification.
- 4. Substitution of settlers

MATERIALS

aqualia industrial offers different options according to the application and water characteristics:

- Body and internals in AISI304 or 316.
- Body in AISI304 or 316 and internals in AISI304 or 316.
- Body and internals in carbón steel with epoxy coating.



MODELS (Standard equipments)

** MAY ELOW/(m3/h)

DAFAST MODELS	(SS = 300 ppm; Velocity = 16 m/h)	(SS = 1000 ppm; Velocity = 16 m/h)	Diameter (m)	High (m)	Empty weight (Kg)	Operation weight (Kg)		PRESSURIZATION SYSTEM		
DAFAST-10	11	10	1,00	3,35	500	2.500	•	MODEL	Recirculation Flow (m ³ /h)	
DAFAST-12	17	15	1,20	3,48	550	3.500	•	F5	1,90	
DAFAST-13	20	18	1,30	3,66	600	4.200		F4.0	3,54	
DAFAST-16	32	29	1,65	4,16	900	7.500	•	F20	6,15	
DAFAST-17	36	33	1,75	4,32	1.100	8.750	•	F20	9,99	
DAFAST-20	47	45	2,00	4,57	1.250	11.750			14,90	
DAFAST-25	74	67	2,50	5,20	1.750	19.250			,	
DAFAST-30	108	95	3,00	5,60	2.200	28.000	•		21,40	
DAFAST-35	146	135	3,50	6,32	3.100	43.000		F/5	24,00	
DAFAST-40	190	170	4,00	6,63	3.250	57.000		F100	29,90	
DAFAST-45	240	216	4,50	7,80	8.500	100.000	•	F125	37,50	

^{**}Flow according to the specified solids load. In other situations, please, consult.

**N/AV ELOW/m3/b\

^{***}Models and pressurization systems according to the solids load.

