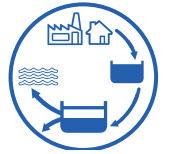


Dissolved air flotation unit (DAF)



Dissolved air flotation units allow to accelerate the separation of water and suspended solids. Compact and simple of use, they make it possible to recover at the same time floated and settling particles, and produce rejections with strong content of dry matter.

The ALPHA flotation units are designed to **treat high polluted wastewater**; they are very suitable as pre-treatment step for removing of the suspended solids, fats, oil, grease and other floating materials in the waste water.



ADVANTAGES

- Low cost maintenance
- Recovery of solids on the surface and at the bottom of the flotation unit
- Possible use of additives (coagulation and/or flocculation)
- Pre-treatment of high polluted wastewater (grease, COD, SS, ...)
- Equipped with a unique self-cleaning aeration system to prevent clogging
- Flowrate from 2 to 180 m³/h

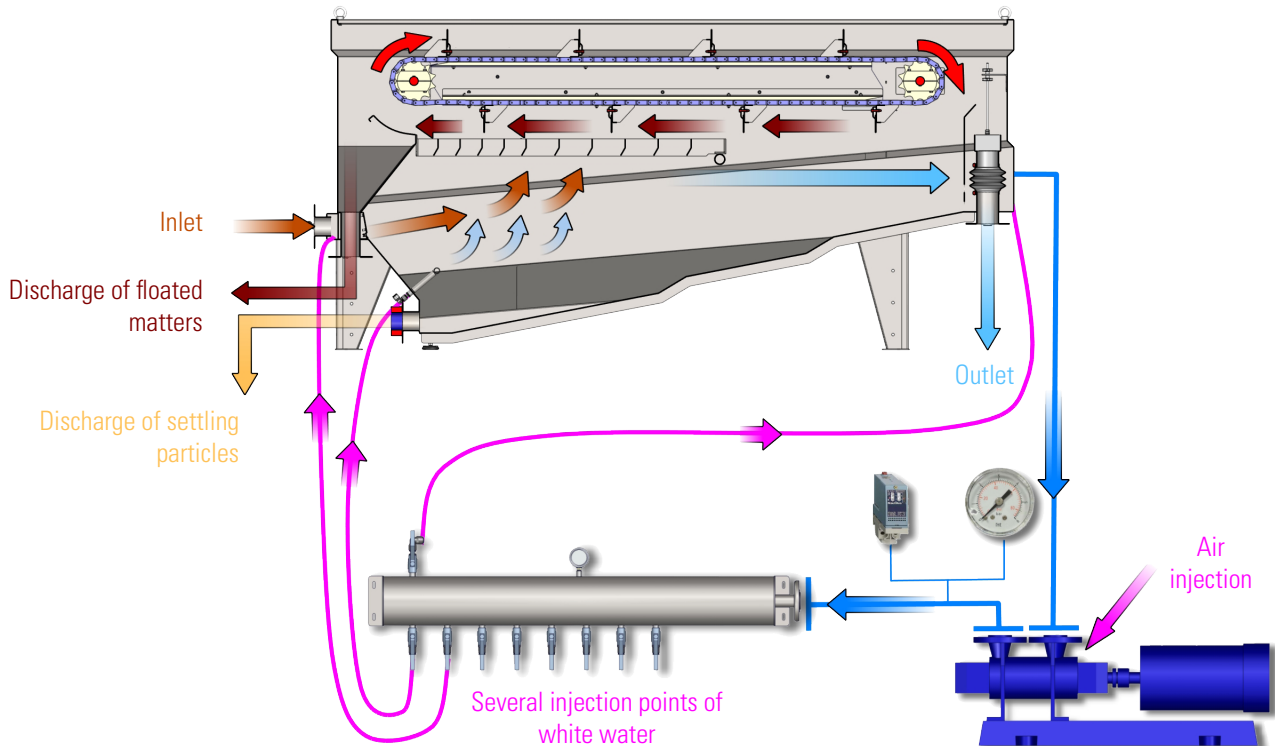




OPERATING PRINCIPLE

What makes this dissolved air flotation unit special is the **use of micro-bubbles** of air to separate suspended solids or grease from the water. The microbubbles are created by dissolving air in water under pressure. When this air-saturated water is mixed with raw water, very fine bubbles are formed, giving the water a milky appearance; this is the reason it is most commonly called «white» water.

The air bubbles formed attach themselves to the solid particles and cause them to float. At the surface, the floating particles are scraped off and carried to a discharge hopper.



RANGE & APPLICATIONS

A range of 15 flotation units adapted to any type of effluent and particularly to the most heavily polluted, for a unit flow rate of 2 to 180 m³/h: the food industry (dairies, slaughterhouses, fish industry, processing plants, etc.), the petrochemical industry, paper industry, textile industry, urban wastewater treatment plants and drinking water, sludge thickening (wastewater, drinking water), etc...



EMO sas,
4 rue Lépine – PA La Richardière, BP 53209, 35530 Noyal sur Vilaine, France
+ 33 (0)2 99 86 02 03 - emo@emo-france.com

www.emo-france.com

Certification ISO9001 - ISO14001



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GROUP