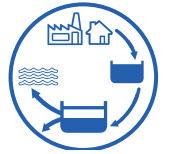


## Dissolved air flotation unit (DAF)



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 DELTA flotation units are designed to **treat 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

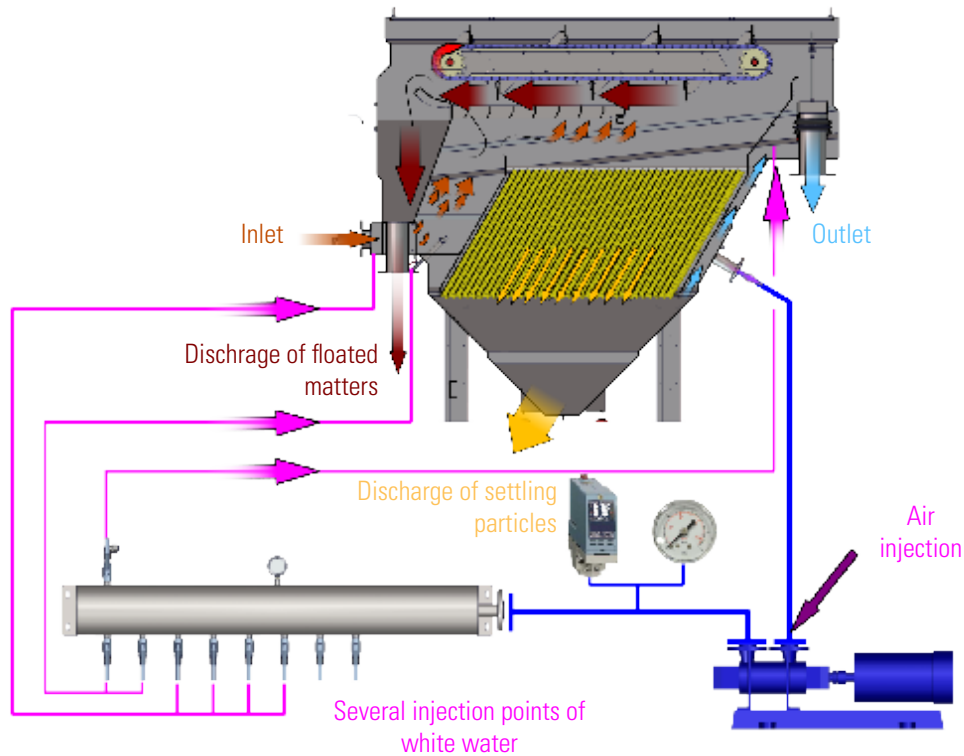
- Low cost maintenance
- Recovery of solids on the surface and at the bottom of the flotation unit
- Possible use of additives (coagulation and/or flocculation)
- Prétreatment of low polluted wastewater (grease, COD, SS, ...)
- Compact equipment with a lamellar pack for optimum space requirement/efficiency ratio
- Flowrate from 5 to 175 m<sup>3</sup>/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 11 flotation units adapted to any type of effluent, with low and medium pollution, for a **unit flow rate of 5 to 175 m<sup>3</sup>/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](mailto:emo@emo-france.com)

[www.emo-france.com](http://www.emo-france.com)

Certification ISO9001 - ISO14001



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