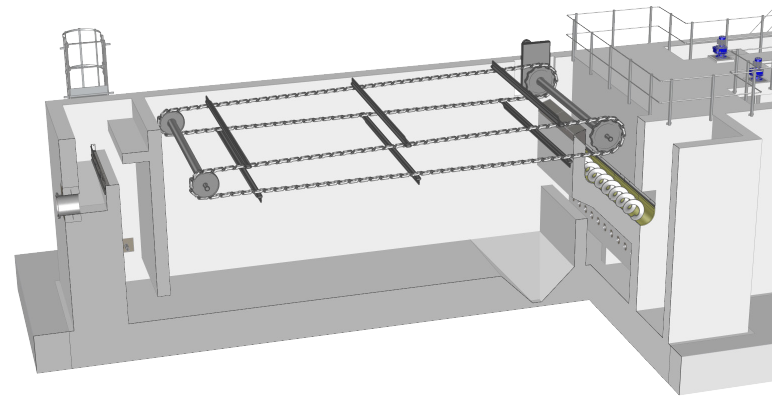


Dissolved Air Flotation units allow to accelerate the separation of water and suspended solids. Simple of use, they make it possible to recover at the same time floated and settling particles, and produce rejections with strong content of dry matter.

The SIGMA flotation units are designed to treat medium to high solids loading. In the first section of the tank the influent is chemically treated, in the second section the pollution in the water is separated according to the DAF principle.

The SIGMA DAF series are designed to create the optimal circumstances for easy separation of the solids. The large free surface area and long retention time guarantee an optimal separation performance.



## ADVANTAGES

- The concrete tank is built on site EMO supplies internal parts only.
- The rectangular concrete flotation tank is suitable for medium to highly polluted wastewater, COF up to 10.000 mg/l.
- Suitable for high flows up to 1000 m<sup>3</sup>/h
- Low maintenance through low friction skimmer system.
- Optional bottom skimmer.
- Efficient saturated water supply system.
- Parts are suitable for transport in a standard sea container



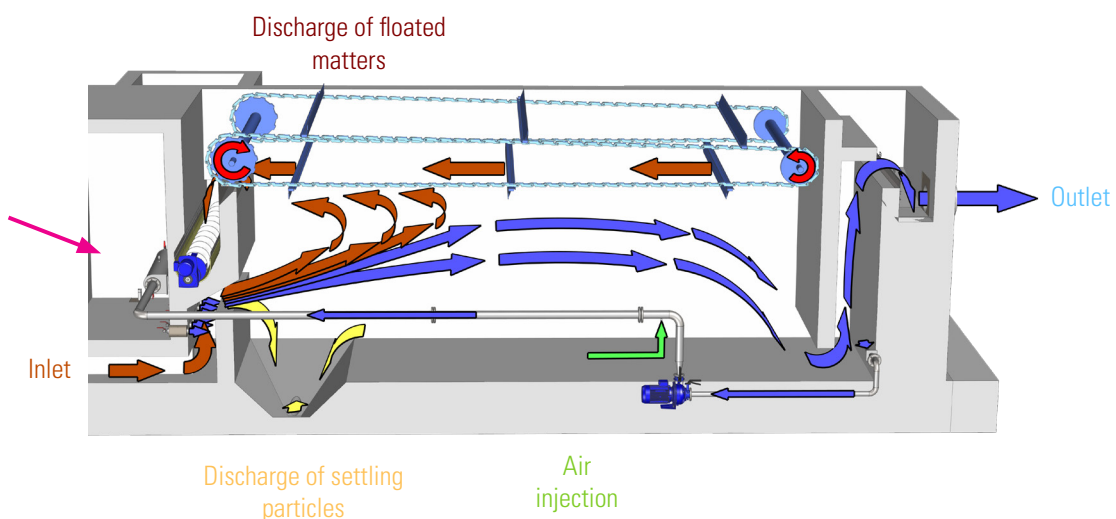
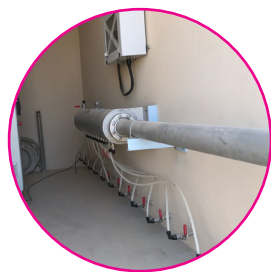


## OPERATING PRINCIPLE

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.

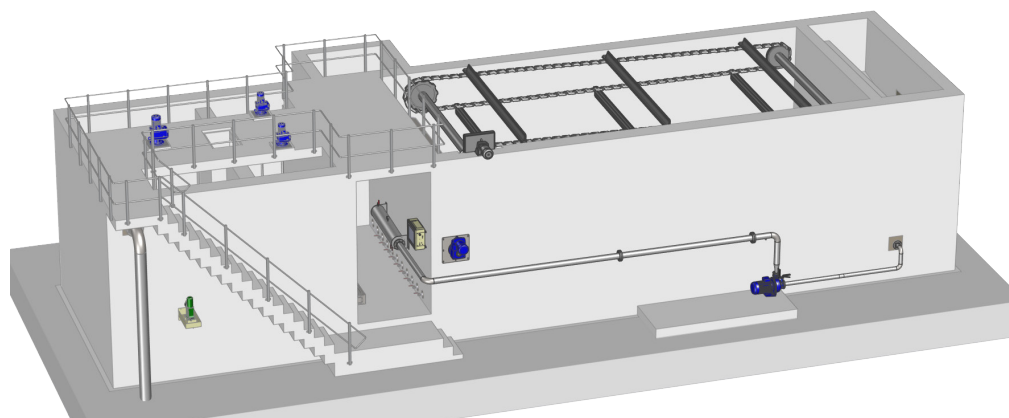
The air bubbles formed attach themselves to the solid particles and cause them to float. At the surface, the floating particles are scraped off and carried to a discharge hopper.

Several injection points of white water



## RANGE & APPLICATIONS

A range of flotation units adapted to any type of effluent, with low and medium pollution, for a **unit flow rate from 200 to 1000 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**

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