

# Water treatment by dissolved air flotation

Référence: TFA/3000



## Implementation of water treatment by dissolved air flotation

Clean method minimizing the use of chemical

### **GENERAL SPECIFICATIONS**

- 100 L feeding tank.
- Centrifugal pump
- 40 L, flocculation tank, with stirrer.
- 100 L, flotation tank.
- Two recirculation pumps.
- Gas- liquid contactor.
- · Water feeding circuit.
- · Compressed air circuit.
- Air-to-water feeding circuit.

### Instrumentation

- · Water flowmeter.
- Water flowmeter.
- Air flowmeter.
- 4 manometers.

**Dim**: 210 x 75 x 195 cm – 250 kg SS tubular framework 40 x 40mm

**Categories:** Educational Engineering Environment Water treatment

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## **DESCRIPTION**

#### Dissolved air flottation

This unit allows the user to perform a water treatment by flotation tanks to dissolved air developed. It is carried out in 4 steps:

- Bubbles generated for dissolved air.
- Bubble adhesion to particles in order to form solid-air particles.
- Formation of an air/solid particle conglomerate and flotation of the formed conglomerate.
- -Separation of the floating emulsion

## Separation of suspended particles

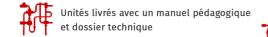
Agglomeration by using air bubbles dissolved

# Optimization of the process

Combination with chemical treatment (flocculation)

Feasibility study on different waters

# Study of the influence to flow rate and residence time







Pignat SAS - 6, Rue Calmette - BP 11 - 69741 Genas Cedex - France - Email : pignat@pignat.com Tél : (33) 04 78 90 50 03 - Fax : (33) 04 78 90 63 88 - SAS au capital de 158 472 € - Code APE 333Z - RC Lyon B 966 504 904