Aqualitec
Wastewater Treatment Equipment

DISSOLVED AIR FLOTATION – DAF Units

Separation of suspended solids, fats, oils and grease from heavily polluted wastewater.

Fifteen models, 9 to 790 GPM (up to 1.1 MGD).

- Floated and settled solids recovered
- Self-cleaning aeration system
- High dry-matter float

Call Us Today
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Aqualitec Corp. - 3415 S. Sepulveda Blvd,
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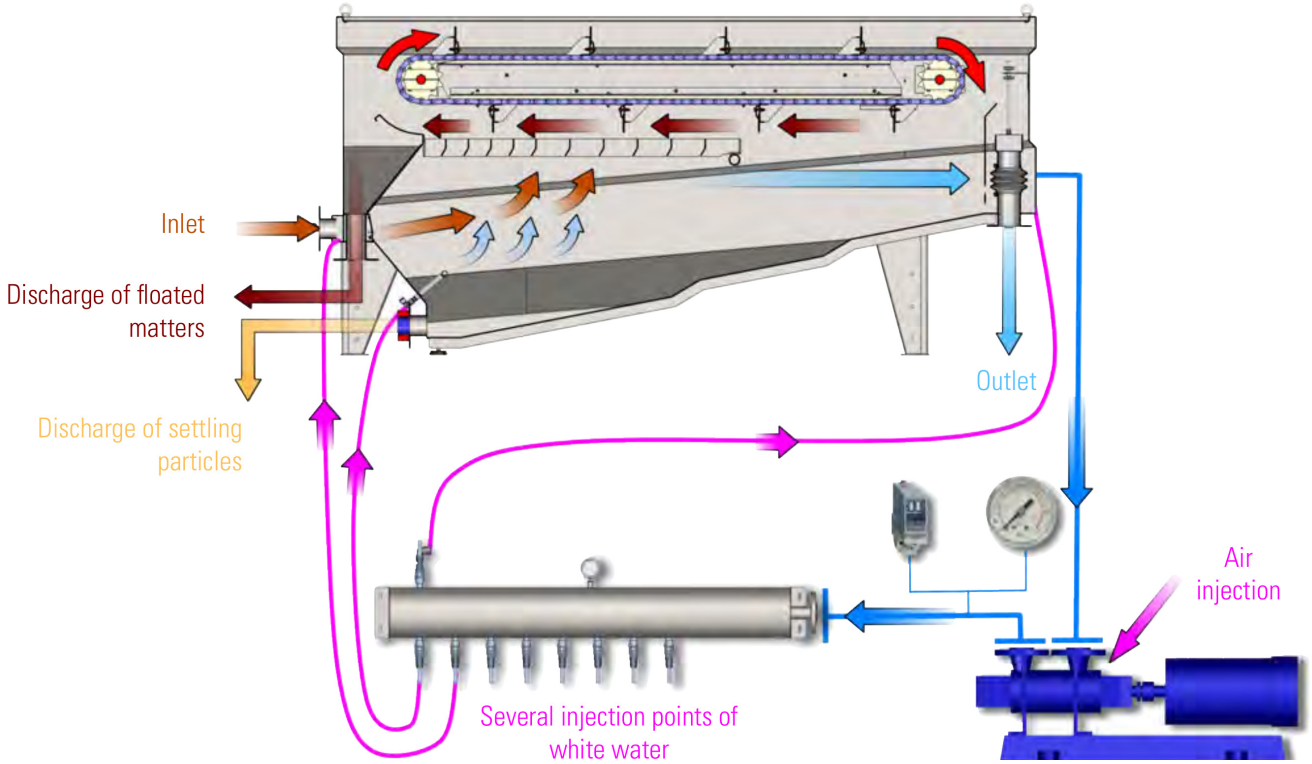
OPERATING MODE

A dissolved air flotation unit uses microbubbles to separate suspended solids and grease from water. Air is dissolved into water under pressure; when that air-saturated water meets the raw feed, very fine bubbles come out of solution and give the mixture a milky appearance, known in the industry as white water.

The bubbles attach to solid particles and lift them to the surface, where a scraper moves them into a discharge hopper. Heavier particles that settle are drawn off separately, so floated and settled solids both leave the unit, as waste with a high dry-matter content.



1. **White water injection**
   Air-saturated water is introduced at several points along the tank
2. **Flotation and skimming**
   Bubbles carry solids to the surface, where the scraper removes them
3. **Settled solids discharge**
   Heavier particles are drawn off from the bottom of the tank

Coagulation and flocculation additives can be dosed ahead of the unit, which is what makes flotation effective on effluent carrying high grease, COD and suspended-solids loads.

FEATURES & BENEFITS

1 Solids recovered top and bottom

Surface scraping and bottom discharge work in the same tank, so floated grease and settled particles are both removed in one pass. The waste leaves with a high dry-matter content, which cuts hauling volume.

2 Self-cleaning aeration

The aeration system cleans itself in service, so the injection points do not clog and white water quality stays consistent between maintenance visits.

3 Economical maintenance

Few wear parts, full-width access to the skimmer and simple operation keep the service burden and the operating cost low.

4 Pre-treatment for heavy loads

Sized as a pre-treatment step ahead of biological treatment, the unit strips grease, COD and suspended solids from effluent that would otherwise upset the downstream plant.

5 Fifteen-model range

Fifteen unit sizes cover flows from 9 to 790 GPM, so the tank is matched to the flow actually arriving instead of being oversized for it.

6 Built for chemical dosing

The unit accepts coagulation and flocculation additives ahead of the flotation tank, which lifts separation performance on the most heavily loaded effluent.

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APPLICATIONS

A range of fifteen flotation units covers effluent types from lightly loaded to the most heavily polluted, with unit flow rates up to 1.1 MGD.

Food industry
Dairies, slaughterhouses, fish processing

Petrochemical
Refinery and process effluent

Paper
Mill process and white water

Textile
Dye house and finishing effluent

Municipal WTP
Primary and pre-treatment duty

Sludge thickening
Flotation thickening of surplus sludge

SPECIFICATIONS

PROCESS
Dissolved air microbubbles (white water)
Injection at several points along the tank
Surface scraper and bottom solids discharge
RANGE
Fifteen unit sizes
Flow 9 to 790 GPM (up to 1.1 MGD)
CONDITIONING
Coagulation and flocculation additives

Altec units in industrial pre-treatment service
Unit selection depends on flow, solids and grease loading, and on the conditioning used upstream. Send your effluent data and we will size the unit and confirm the model.

ALSO FROM AQUALITEC

DAF range
Altec, Deltec, Gamtec, Sigtec

Screening equipment
Screentec, Raketec, Drumtec, Spiraltec, Compactec, Washtec, Grittec

Sludge equipment
Omega belt filter presses, decanter centrifuges, screw presses