

DISSOLVED AIR FLOTATION – DAF Units

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

Concrete tank built on site, 880 to 4,400 GPM (1.3 to 6.3 MGD).



Internals supplied,
tank built on site



Low-friction
skimmer system



Ships in a
sea container



Call Us Today
1-855-650-2214



Email Us
info@aqualitec.com



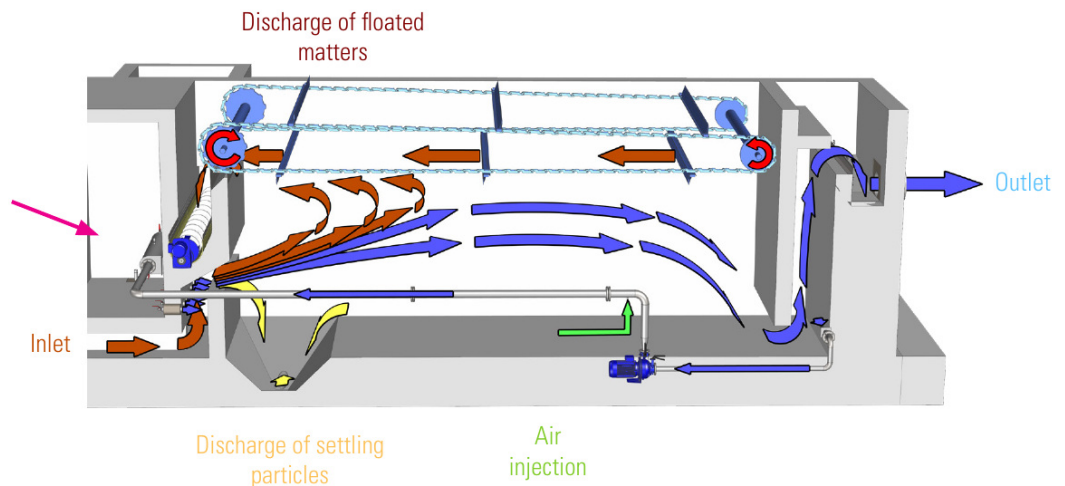
Aqualitec Corp. - 3415 S. Sepulveda Blvd,
Suite 1100, Los Angeles, CA 90034

OPERATING MODE

What sets this unit apart is the use of microbubbles to separate suspended solids and grease from water. Air is dissolved into water under pressure; when that pressurized water is released into the raw feed, extremely fine bubbles form and give the water a milky appearance, known as white water.

The bubbles attach to suspended particles and carry them to the surface, where the floating sludge is scraped off into a discharge hopper. The influent is chemically conditioned in the first section of the tank and separated in the second.

Several injection points of white water



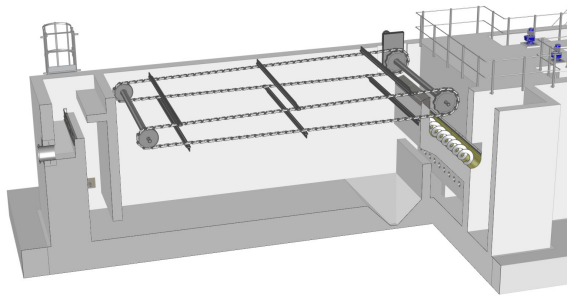
- 1 Chemical conditioning**
The first section of the tank conditions the influent before separation

- 2 Large free surface**
A long retention time in the second section holds separation steady

- 3 Optional bottom skimmer**
Settled particles can be removed from the floor 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 Concrete tank

The rectangular flotation tank is built on site in concrete and Aqualitec supplies the internal equipment only, which suits large civil works already in the project scope.

2 Sized for the heaviest loads

The tank suits medium to highly polluted wastewater with COD up to 10,000 mg/L, at flows up to 4,400 GPM in a single unit.

3 Large surface, long retention

A large free surface area and an extended retention time create the conditions for solid-liquid separation, which holds treatment quality consistent.

4 Low-friction skimmer

The surface skimmer runs on a low-friction system that keeps maintenance down, with an optional bottom skimmer for settled solids.

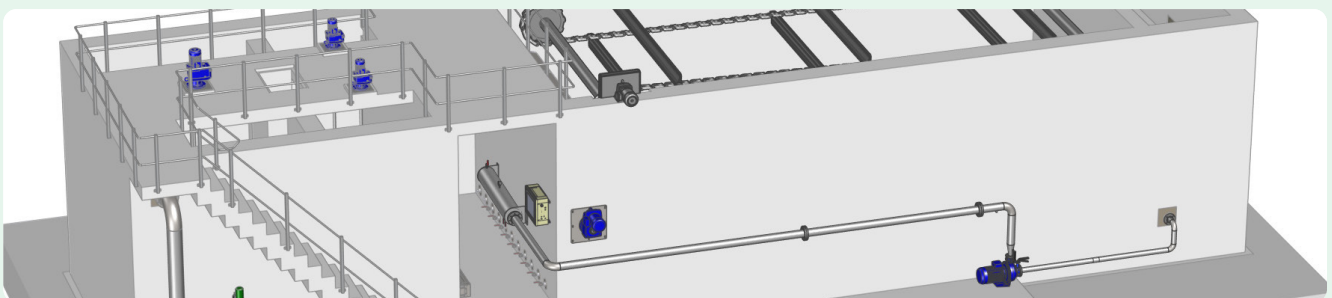


5 Efficient saturated water supply

The white water system feeds air-saturated water to injection points along the tank, which keeps bubble quality consistent across the full surface.

6 Container-shippable parts

All supplied parts fit a standard sea container, so the internals ship worldwide while the tank is built locally.



APPLICATIONS

The Sigtec range treats any type of effluent at unit flow rates from 880 to 4,400 GPM, in wastewater and drinking water duty.

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)

Chemical conditioning section, then flotation

RANGE

Flow 880 to 4,400 GPM (1.3 to 6.3 MGD)

COD up to 10,000 mg/L

SCOPE OF SUPPLY

Internal equipment supplied by Aqualitec

Concrete tank built on site by others



White water injection manifold on a Sigtec installation

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

Screenotec, Raketec, Drumtec, Spiraltec, Compactec, Washtec, Grittec

Sludge equipment

Omega belt filter presses, decanter centrifuges, screw presses



Call Us Today
1-855-650-2214



Email Us
info@aqualitec.com



Aqualitec Corp. - 3415 S. Sepulveda Blvd,
Suite 1100, Los Angeles, CA 90034