
ZEPHYR™

Induced Air Flotation System

High Efficiency Air Flotation.

If your wastewater contains fats, oils, greases (FOG) or floatable solids, the ZEPHYR Induced Air Flotation System (IAF) provides the most cost-effective solution for their removal. Separating these materials from the liquid will increase treatment plant efficiency and provide a recovery technique for what once was a waste product.

The cost to dispose of wastewater containing fat, grease, oil, and other floatable solids can be reduced by the ZEPHYR (IAF). In many instances, the by-products recovered are valuable and can be either recycled or sold to further reduce costs.



Typical ZEPHYR Induced Air Flotation System



ZEPHYR Induced Air Flotation System in a circular tank.

The ZEPHYR (IAF) is ideal for flotation and phase separation applications, or situations where air flotation is needed with minimum mixing or turbulence.

In addition to flotation, the ZEPHYR (IAF) can be used to introduce gases into a liquid. Because it creates an ultra-fine, slow rising bubble, it is also an ideal method for gas injection.

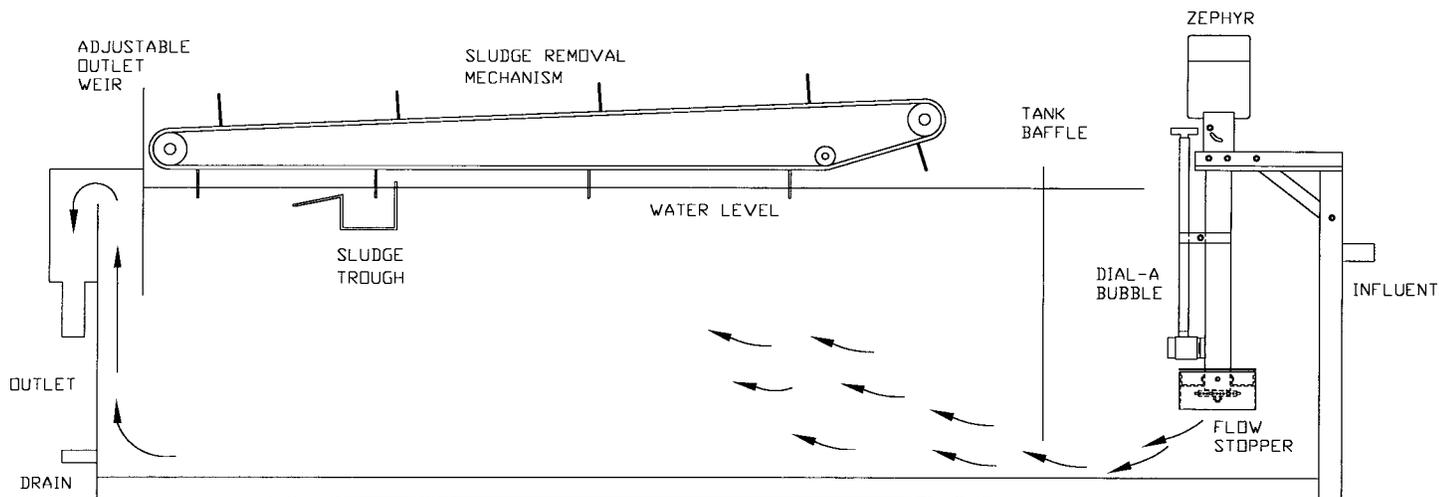
Extensive Applications

ZEPHYR Air Flotation Systems are extremely efficient in:

- * Pulp and Paper Mills
 - * Petrochemical Industries
 - * Poultry, Meat, Vegetable, and Oil Processing Industries
 - * Municipal Wastewater Treatment
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Theory of Operation.

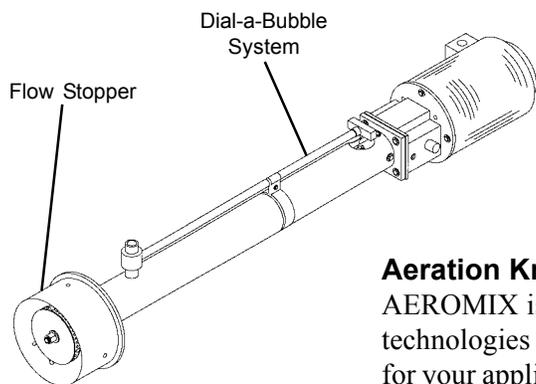
The ZEPHYR (IAF) features a diffuser disc that incorporates fine holes near its perimeter for ultra-fine bubble diffusion into the liquid. The motor spins the diffuser disc, creating a low-pressure zone at the disc's diffuser ports which draws air, or gas, from above the liquid surface. That air, or gas, then proceeds down through the draft tube, into the disc and out of the submerged diffuser ports. As each bubble exits through a hole in the edge of the diffuser disc. The spinning disc shears it into microscopic air bubbles measuring from 10-100 microns in diameter. These air bubbles adhere to minute solids such as oil and grease. The bubbles slowly rise to the surface around the unit, bringing the solids to the surface.



Typical ZEPHYR (IAF) application in a flotation tank with a skimmer.

Dial-a-Bubble.

The "Dial-a-Bubble," the latest improvement to the ZEPHYR (IAF), improves equipment performance by allowing the user to adjust the size and volume of air bubbles produced. A separate "flow stopper" chamber reduces mixing to allow the unit to be used in the same tank as the skimmer.



Aeration Knowledge. Wide Range Of Products.

AEROMIX is your aeration expert. We offer all major wastewater aeration technologies and the expertise to help you select and apply the equipment best suited for your application. Let our technical experts assist you in proper sizing, layout, and operation of your aeration system.

Made in the U.S.A. by



AEROMIX Systems, Inc.
7135 Madison Ave. West
Minneapolis, MN 55427 U.S.A.

Ph: 800/879-3677, 763/746-8400
Fax: 763/746-8408
e-mail: aeromix@aeromix.com
web site: www.aeromix.com

Rental units available.

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