

Expanded
AEROMIX
Product Line
Includes
All Major
Wastewater
Aeration
Technologies

ZEPHYR™

Induced Air Flotation System

High Efficiency Air Flotation.

If your wastewater contains fats, oils, or floatable solids, the ZEPHYR Induced Air Flotation System (IAF) provides the 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, further reducing costs.

ZEPHYR (IAF) with new "Dial-a-Bubble System"



Typical ZEPHYR Induced Air Flotation System

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.

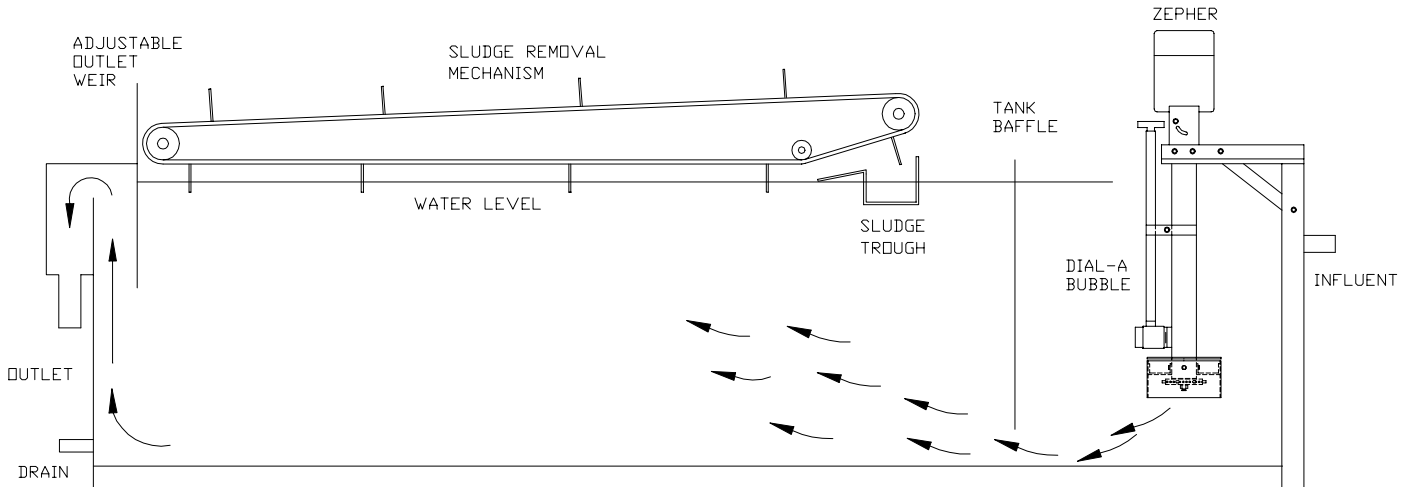
Extensive Applications

ZEPHYR Air Flotation Systems are extremely efficient in:

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

Theory of Operation.

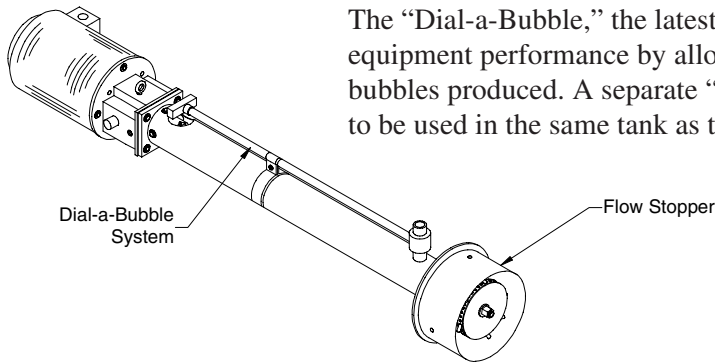
The ZEPHYR (IAF) features a diffuser disc that incorporates fine holes near its perimeter for ultra-fine bubble diffusion into the liquid. The motor spins the unique diffuser disc, creating a low-pressure zone at the disc's diffuser ports which draws air or gas from above the liquid surface. That air 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 bubble fragments measuring from 10-100 microns in diameter. These air bubble fragments 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



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Rental units always available.

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