AQUA HEART AERATION

Features

Just aeration and the injection of live organisms thoroughly decompose BOD and n-hex, satisfying sewage discharge standards.

The amount of sludge is drastically reduced, and the capital investment cost can be recovered in a few years.

This system reduces the generation of hydrogen sulfide, prevents the deterioration of tanks and devices and protects asset values.

Overview (Technical principles, actions, etc.)

The AQUA HEART AERATION wastewater treatment system is very effective for treating wastewater containing animal and plant oils such as wastewater from meal service centers with large kitchen facilities, large dining facilities in companies and public facilities, and delicatessen factories from which wastewater is discharged to sewers. This system can also be used for wastewater containing mineral oil.

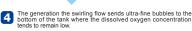
The mechanism of this system is to spread fine bubbles generated inside the AQUA HEART AERATION system throughout the tank using the effect of air-lift and increasing the dissolved oxygen at the bottom of a tank. Our unique design also realizes unprecedented wastewater treatment methods such as microbiological treatment that does not use activated sludge.

This system has been adopted in various fields including the food manufacturing industry and the automobile manufacturing industry, as well as at industrial waste treatment plants and sewage treatment plants, and is highly evaluated as an unprecedented low cost, high-efficiency system. We are planning to expand sales in the Asian market in the future.

Mechanisms and structures







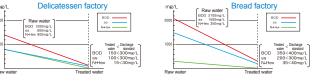
The internal mechanism is designed to easily form cavitation to generate ultra-fine bubbles. Nylon Six, which is more resistant to friction and impact than metal, is used in the internal mechanism to withstand the impact.

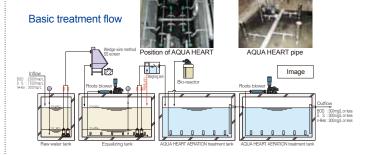




The welding and finishing treatment are carefully designed, and the surface treatment prevents sludge from sticking to the surface.

Basic treatment flow





Introductory Track Record

- Wastewater from delicatessen sections of supermarkets and lunch factories
- Meal service factories
- Bread plants
- Wastewater from hotel kitchens
- Wastewater from bus maintenance factories
- Wastewater from waste plastic recycling plants
- Municipal water treatment centers
- Sewage treatment plant in Yongin City, Korea etc.

Effects

- Safe and secure treatment that does not use dangerous chemicals such as hazardous substances
- ONo use of activated sludge results in less sludge generation, and the cost of treating industrial waste sludge is drastically reduced.
- OLong service life due to the simple structures and mechanisms
- Highly durable and very easily to maintain
- OCapable of reducing long-cycle cost

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