2019/4

“Aquablaster” Aeration Diffusers installation case for factories of Paper Industries

cYc Century Yamakyu Corporation

The Example of a factory of Paper Industries

The pictures when exchanging the Tube Type Diffusers

Before

After

The Example of a factory of Paper Industries

The problems of Tube Type Diffusers

①The Value of DO is decreased in a half year because of Choking

②Tube type Diffusers unit cost is low, but their exchange expense and work are very cost

③They need to stop of the production during the exchange the Diffusers

After installing “Aquablaster”

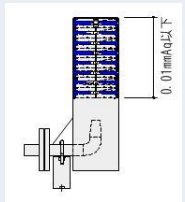
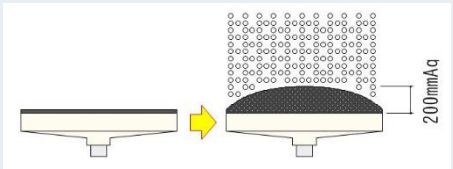
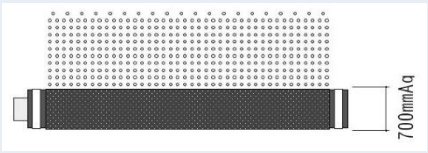
①Keep “Aquablaster”s performance over 10 years

②”Aquqblaster”s initial investment is high, but their running cost is very low.

③No need to maintenance of the tank over 10 years

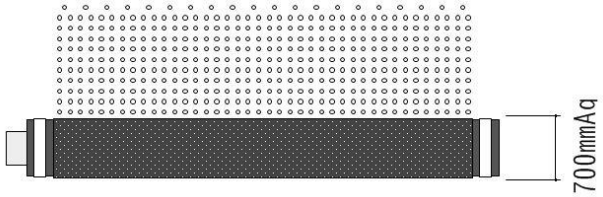
“Aquablaster” solved all the problem.

Comparison with Diffusers

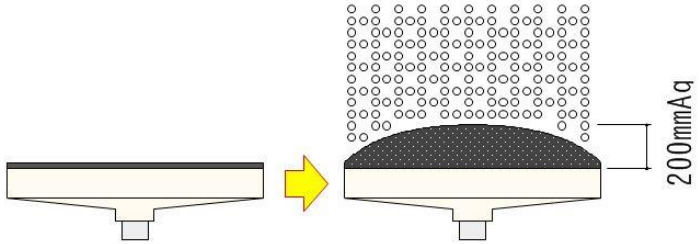
Product	Aquablaster	Disk Type Diffuser	Tube Type Diffuser
Energy Consumption	Low	Normal	High
Initial Cost	High	Normal	Normal
Choking	No	Yes	Yes
Sucking Sludge from the Bottom of Tank	○	×	×
Maintain performance	Over 10 years	2 years	2 years
Maintenance	No Need	Need	Need
Treatment Efficiency against Energy	High	Normal	Low
Oxygen Dissolution Efficiency	High	Normal	Normal
Microorganism Activate	High	Normal	Normal
Product's shape			

Comparison with Diffusers (Pressure Loss and Energy Consumption)

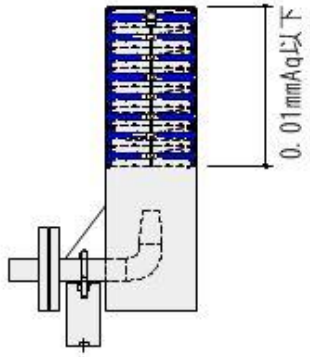
Tube type Diffuser
Pressure Loss：
600～700mmAq



Disk type Diffuser
Pressure Loss：
150～200mmAq



“Aquablaster”
Pressure Loss：
0

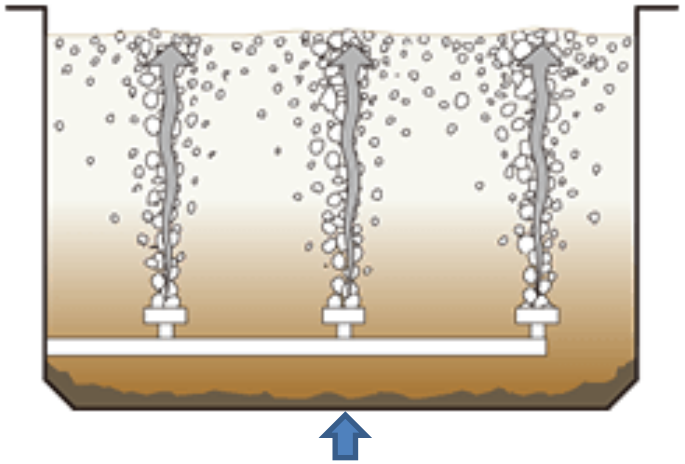


“Aquablaster” can decrease the Energy Consumption by 35% to 45% comparing with the conventional Diffusers because Pressure Loss of “Aquablaster” is almost Zero.

“Aquablaster”: Their initial investment is relatively higher than the conventional Diffusers, but it is reversed within 3–4 years thanks to their low energy consumption, less maintenance and long life of over 10 years.

Comparison with Diffusers (Stirring Ability and Oxygen Dissolution Efficiency)

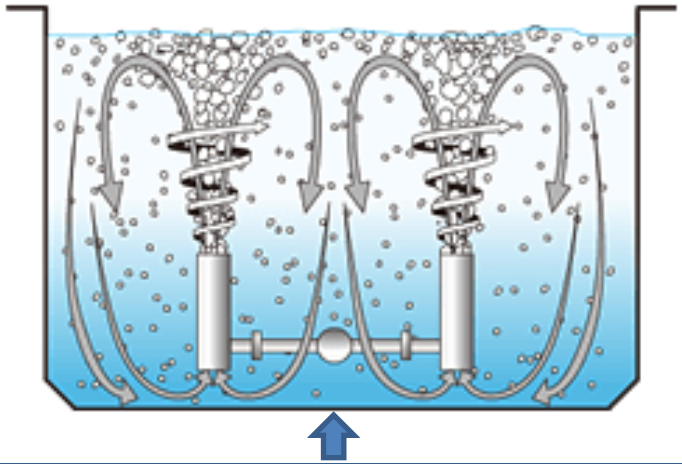
Conventional Diffusers



Sludge remains in the bottom

"Aquablaster"

Microscopic bubbles spread throughout the water tank



Sludge does not accumulate on the bottom

To maintain a Wastewater tank environment, it is crucial to promote the aerobic respiration metabolism of microbes. Installing "Aquablaster" in the Wastewater tank enables High-Speed, High Efficiency Decomposition and Purification.