Greatly reduced wastewater treatment costs









Special features of the "Aquablaster"

Nano airbubbles generated

Swirling flows and microscopic air bubbles are generated by making the gas and the liquid collide with the hard blades.

Sludge on the bottom swept up

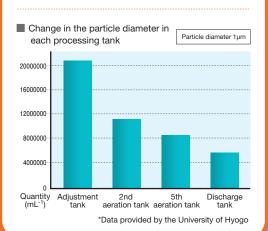
An airlift effect sweeps up water and sludge from the bottom for homogenization inside the tank.



Please see the video on the website.

Oil content and SS pulverized inside

Swept-up oil content and SS are pulverized by special fins.



Zero internal pressure loss

Load on the blower becomes smaller, making it possible to greatly reduce power consumption.

quablaster makes a difference compared to ther diffusion pipes! Six features of Aquablaster

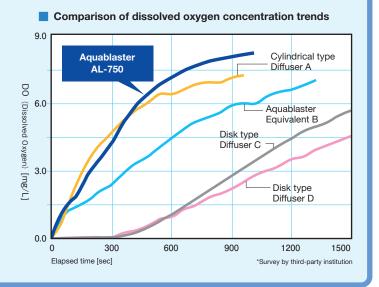
Outstanding oxygen dissolution power

1

3

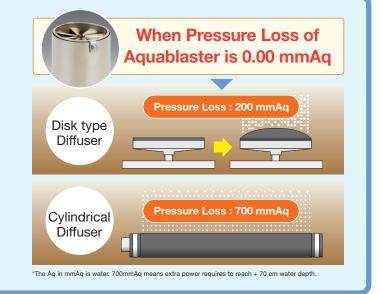
Even compared to products of other manufacturers in this category, the top level of oxygen dissolution power is promised.

*Levels of oxygen dissolution efficiency that have been open to the public cannot be used as indicators in comparison because of the lack of definite measurement criteria.



2 Reduced cost of electricity by Pressure Loss

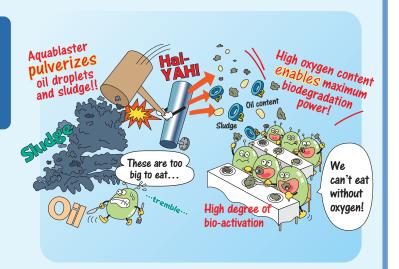
Aquablaster with zero pressure loss has an energy-saving effect which consumes less electrical power than other diffusers.



Reduced sludge output

Sludge output is reduced because SS and oil content are pulverized into particles small enough for microorganisms to eat easily.

*Pulverization of sludge is prevented by adjusting the air volume.

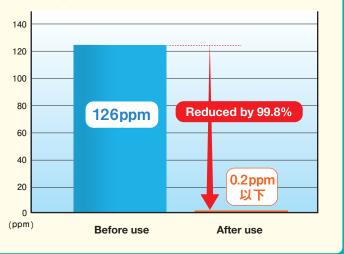




Guarantee of zero odor generation

Microorganisms are made to perform full aerobic respiration metabolism so that no odor such as hydrogen sulfide is generated.

Hydrogen sulfide concentration



*Limited to the installations designed by Aience.

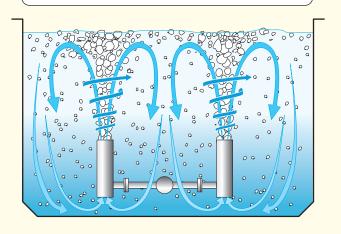
Powerful stirring inside a tank

Sludge on the bottom is swept up and its accumulation is prevented to eliminate anaerobic areas.

Such a substance as silica and calcium is also prevented from settling.

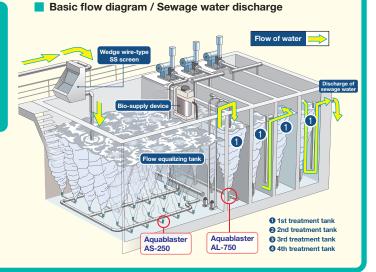
6

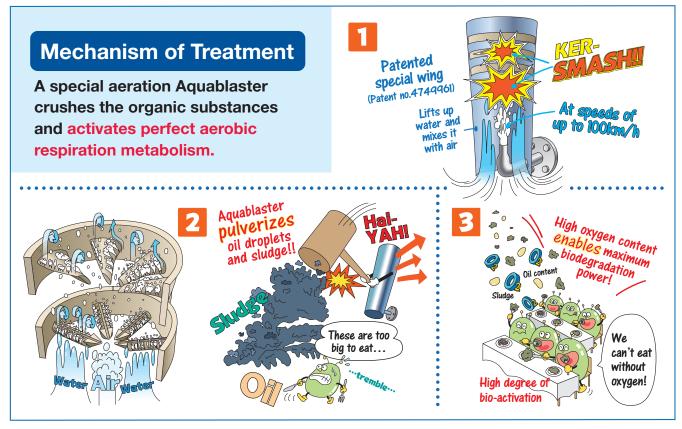
Microscopic bubbles spread throughout the water tank

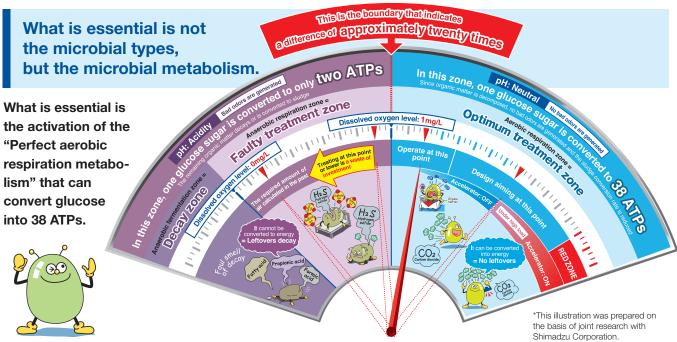


AIS, which realizes pressurized flotation unit elimination and sewage discharge without activated sludge

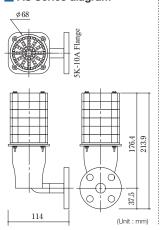
If a tank in which pre-processing can be performed by Aquablaster is available, it is also possible to eliminate pressurized flotation.

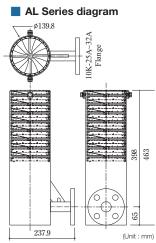






AS Series diagram



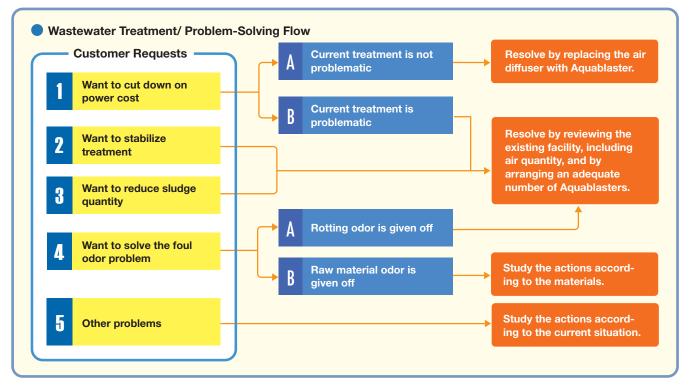


Specification table

Product name	Part number	Applied air volume	Size	Connecting part
Aqua blaster	AS-250	175~275L/min	W114×H213.9	5K-10AFlange
	AL-750	600~900L/min	W237.9×463	10K-25AFlange
	AL-1100	900~1300 L/min	W237.9×463	10K-25AFlange
	AL-1500	1300~1700 L/min	W237.9×463	10K-32AFlange

*Air volume can be adjusted or unit produced to custom specifications. Do not hesitate to consult Aience!

Aquablaster will solve the various problems of wastewater treatment!



We will offer further detailed suggestions if we receive your information on current situations.

Validation items						
Degree of necessity	Information to be prepared	Suggestion details				
YES	Tank Size (L x W x Water Level)	Submission of a preliminary layout plan and an approximate estimation				
MAYBE	Current treated water quantity	Review of the current treatment airflow				
MAYBE	Drawings of tanks	Preparation of a precise layout plan drawing				
MAYBE	Current water quality	Reference case examples of layout plan				
MAYBE	Treatment flow diagram	Suggestions on sludge/chemicals reduction, etc.				
MAYBE	Other specification documents, etc.	Validation of details				
MAYBE	Current treatment cost	Estimation of cost-benefit performance				



Lend a demonstration machine.

Only to prepare 90L of wastewater and a 100V power source.

Validation	Raw	12 hr.	24 hr.	36 hr.	48 hr.
items	water	treatment	treatment	treatment	treatment
Degree of necessity	YES	MAYBE	YES	MAYBE	YES

*Five fundamental measuring items: BOD, COD, SS, n-hex and PH

Manufacturer



Aience Inc.

https://www.aience.co.jp/en/

 Head Office : Kowa Edobori Bldg. 3F, 1-21-7, Edobori, Nishi-ku, Osaka, 550-0002, Japan Tel.+81-6-6225-2323/Fax.+81-6-6225-2552 Mobile.+81-90-7768-6655
Tokyo Office : 942, 2-2-15, Minamiaoyama, Minato-ku, Tokyo, 107-0062, Japan Tel.+81-3-6869-9189/Fax.+81-3-6893-3931 For inquiries and service



https://www.aience.co.jp/en/