

**Electricity  
expense  
reduction**



**Sludge  
reduction**

**Wastewater / Exhaust Gas Problems**

# **Rescue Station**

**Odor  
reduction**

**CO<sub>2</sub>  
reduction**

**Water  
usage  
reduction**



排水・排ガスの悩み  
**かけこみ寺**



.....➤  
We solve your  
problems about  
wastewater treatment /  
exhaust gas treatment.

**Do you have any problems with  
wastewater treatment or exhaust gas treatment?**

( Wastewater / Exhaust Gas Troubles )  
**Rescue Station**  
is available for your consultation.

**Free consultation**

You can contact us by phone or  
via the website, as well as online or  
a face-to-face consultation.

**Speedy response**

We quickly respond to various problems.  
Our wastewater/exhaust gas treatment  
professionals propose the best suitable plan.

**We solve water and air problems with our extensive past record  
and experience and cutting-edge technologies!**

**Our company, the operator of Wastewater/Exhaust Gas  
Problems Rescue Station, has received numerous awards.**



**Wastewater treatment**

Our wastewater treatment system AIS:  
Aience Innovative System won the Japan  
Society of Industrial Machinery  
Manufacturers Chairman's Award at the  
49th Excellent Environmental Equipment  
Awards hosted by the Japan Society of  
Industrial Machinery Manufacturers.



**Exhaust gas treatment**

Our exhaust gas treatment equipment  
Deorizer won the Small and Medium  
Enterprise Agency Commissioner's  
Award at the 47th Excellent Environmental  
Equipment Awards held by the Japan  
Society of Industrial Machinery  
Manufacturers.



( Wastewater/Exhaust Gas Problems )  
**Rescue Station**  
Aience Inc.

**Please feel free to contact us  
about any problems.**



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Available hours /  
**09:00 – 17:15 (Weekdays)**  
<https://www.aience.co.jp/en/contact/>



Food  
factory

Chemical  
factory

Automobile  
factory

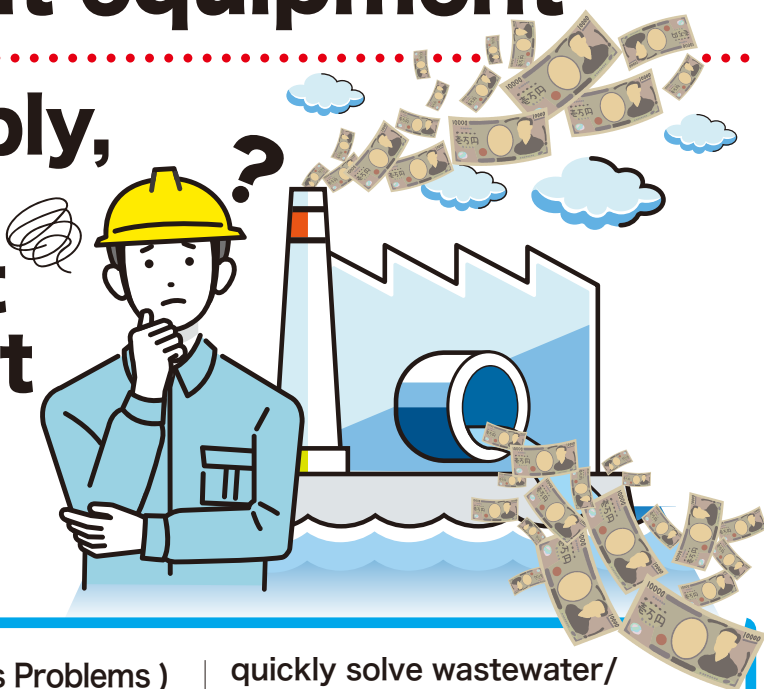
Pharmaceutical  
factory

Hotel

Restaurant

# To a person in charge of treatment equipment

Conceivably,  
is your  
treatment  
equipment  
wasting  
money?



( Wastewater/Exhaust Gas Problems )

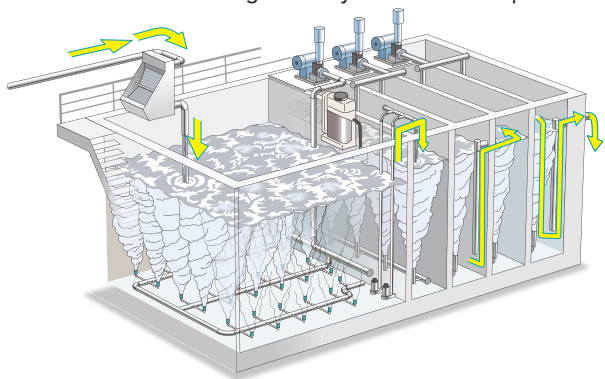
## Rescue Station can

quickly solve wastewater/  
waste gas problems!  
eliminate various wastes and  
achieve cost reduction and  
environmental burden reduction.

Wastewater  
treatment

### AIS ( Aience Innovative System )

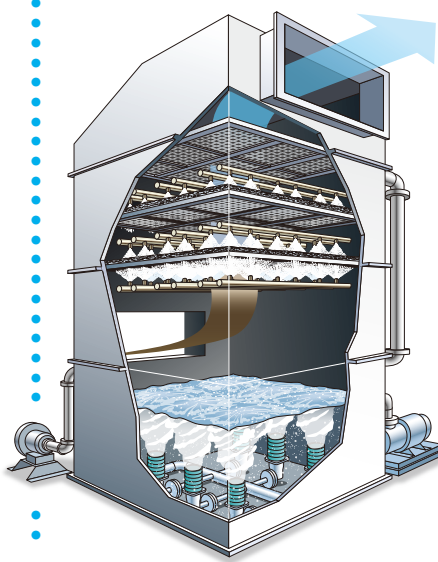
This system is a unique special aeration tube that combines high oxygen dissolution efficiency and powerful stirring convection, solving a variety of wastewater problems.



Exhaust gas  
treatment

### Deorizer

An innovative scrubber that captures odors and dust with a water film that deals with a wide range of odorous substances, solving exhaust gas problems.





Do you have any of the following **problems**?

- We want to reduce costs, such as electricity expenses.
- We have trouble with the sludge treatment cost.
- We have trouble with bad odors, such as hydrogen sulfide.
- We have trouble with CO<sub>2</sub> reduction.
- We have trouble with drug usage fees.
- The discharge standard value may be exceeded.
- We want to reduce personnel costs.
- We do not have sufficient wastewater treatment administrators.
- There are dirty work and working on holidays.

If any of the above applies to you, please feel free to consult us.

( Wastewater Problems )  
**Rescue Station**

solves  
your  
problem!



Aience's wastewater solution that changes the norm of water treatment

- Great improvement of treatment capacity! Significant reduction in costs and labor.
- We propose the best suitable system for both new and existing installations.



# We solve wastewater problems and reduce costs at the same time.

Check here for details on wastewater treatment using Aience air diffusers.



## Solution Examples

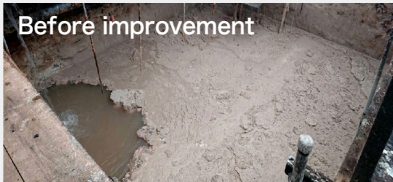
### We solved wastewater treatment problems of factories in a wide range of fields.

#### Solution example

1

#### ■ Solution example of problems with wastewater treatment at a food processing factory

Before improvement



- ❶ Strong odors of hydrogen sulfide/putrid odor
- ❷ Daily scooping of surfacing scum
- ❸ The latter stage contact oxidation tank is anaerobic.

After improvement



- ❶ No bad odor of hydrogen sulfide
- ❷ No scum scooping
- ❸ Aerobization of the latter stage contact oxidation tank

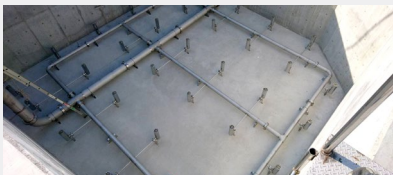
Surfacing oils and fats extraction work  
One hour/three times a week to zero

Sludge volume: The need for work of 36 tons/month was eliminated, and sludge reduction of 800 tons/year, including excess sludge in the latter stage was achieved successfully.

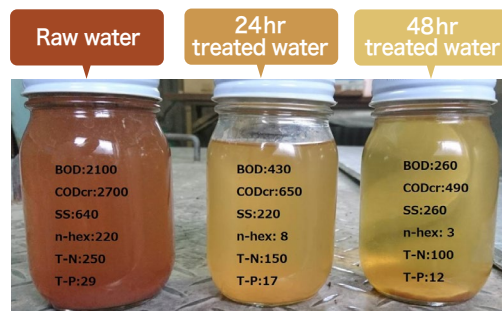
#### Solution example

2

#### ■ Solution example at a poultry factory



Even without using activated sludge, the treatment progresses with aeration by Aquablaster only.

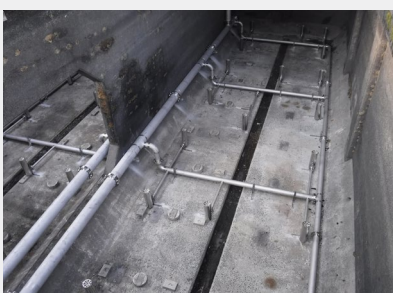


\*The treatment uses Aquablaster only and does not use any chemicals or activated sludge.

#### Solution example

3

#### ■ Solution example of batch-type aeration tank at a food additive manufacturing factory



#### Electricity consumption reduction simulation at proposal

Blower 37kW × (30+20+25min) = 46.25kWh/cycle  
Per day : 46.25kWh × 32cycles = 1,480kWh/day  
1,480kWh × 350days × 12.5yen = 6,475,000yen/year

Power consumption : -19%

Blower 45kW × (30+25min) = 37.5kWh/cycle  
Per day : 37.5kWh × 32cycles = 1,200kWh/day  
1,200kWh × 350days × 12.5yen = 5,250,000yen/year

The blower was upgraded to increase air volume, but the cost was reduced.

#### ● Introduction of a report from the customer

Electricity reduction rate : About 20% (90,000kWh per year → 1.35-million-yen reduction)  
Sludge reduction rate : About 25% (480ton per year → 7.3-million-yen reduction)  
Chemicals input cost : To nonuse (2.0-million-yen reduction per year)

**Reduction effect of 10.65 million yen per year**

The electricity bill reduction was almost as simulated.



Do you have any of the following **problems**?

- We are busy dealing with complaints from the neighborhood.
- We want to improve our work environment.
- We have trouble with bad odors of wastewater and circulating water.
- We want to reduce maintenance costs.
- We have trouble with industrial waste costs.
- We want to change our combustion equipment to a cleaning type.
- We have trouble with environmental measures in our factory and other areas.

**If any of the above applies to you, please feel free to consult us.**

( Exhaust Gas Troubles )  
**Rescue Station**

solves  
your  
problem!



Aience's exhaust gas solution that changed the concept of deodorization in the past

- A system that reliably catches odors and dust with a water film.
- Annual running costs and management labor are reduced significantly.

# We solve exhaust gas problems and ensure compliance.

Check here for details on exhaust gas treatment using Aience scrubbers.



## Solution Examples

### We deal with a wide range of odorous substances from various factories.

#### Solution example

1

#### ■ Solution example of casting exhaust gas at an automobile factory



##### Target substance

Casting exhaust gas

##### Problem

When constructing a new casting line, it is desirable to efficiently process exhaust gas mixed with dust.

##### Solution

The problem was solved by installing Deorizer and by installing Dustfall, a dust collector, in front of it.

##### Result

With the system of Deorizer + Dustfall, the dust collection efficiency was enhanced to improve the exhaust gas absorption efficiency, and the casting odor was reduced. Reduction in the frequency of cleaning was also achieved.

#### Solution example

2

#### ■ Solution example of neighbor complaints due to the odors of Chinese herbal medicines



##### Product

Chinese herbal medicines

##### Problem

It is desirable to eliminate almost all the neighbor complaints due to the odors of Chinese herbal medicines.

##### Solution

The problem was solved by installing Deorizer DR-12W outdoors and performing water film cleaning.

##### Result

Immediately after installation, it became almost odorless, eliminating neighbor complaints and improving the work environment as well. The customer was also pleased with low running costs and low management labor.

#### Solution example

3

#### ■ Solution example of work environment deterioration due to gas from a paint drying oven



##### Target substance

Paint drying oven exhaust gas

##### Problem

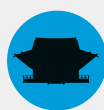
The odor from the paint drying oven caused neighbor complaints and deteriorated the work environment in the factory.

##### Solution

The problem was solved by installing three units of Deorizer DR-30W and performing water film cleaning.

##### Result

The neighbor complaints were eliminated, it became possible to treat the leaking gas built up in the upper part of the factory, and the problem was resolved.



( Wastewater/Exhaust Gas Problems )

# Flow of Rescue Station

## ( 1 ) Free consultation

Feel free to contact us by phone or via website.  
Online or face-to-face consultation is also available.

## ( 2 ) Proposal of solution

We quickly respond to various problems and  
propose the best suitable solution.

Flow of concrete steps after you are satisfied with the solution proposed by  
Wastewater/Exhaust Gas Problems Rescue Station



New installation and  
refurbishment meeting

Our person in charge contacts you and  
hear your requirements.



On-site survey and  
demonstration if necessary

We conduct an on-site survey and  
perform experiments with equipment for  
demonstration if necessary.



Proposal and quotation

We provide the best suitable plan and  
submit a quotation.



Contract

If you are fully satisfied with our proposal,  
we will sign a contract.



Design

Based on the meeting, we prepare design  
drawings for actual use.



Construction

We carry out construction with our technologies  
backed by our past records and experiences.



Warranty/maintenance

We will provide long-term support even after  
construction is complete.

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Available hours / 09:00-17:15 (Weekdays) <https://www.aience.co.jp/en/contact/>



■ Seller



Changing Water Treatment Worldwide

**AIENCE**

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