

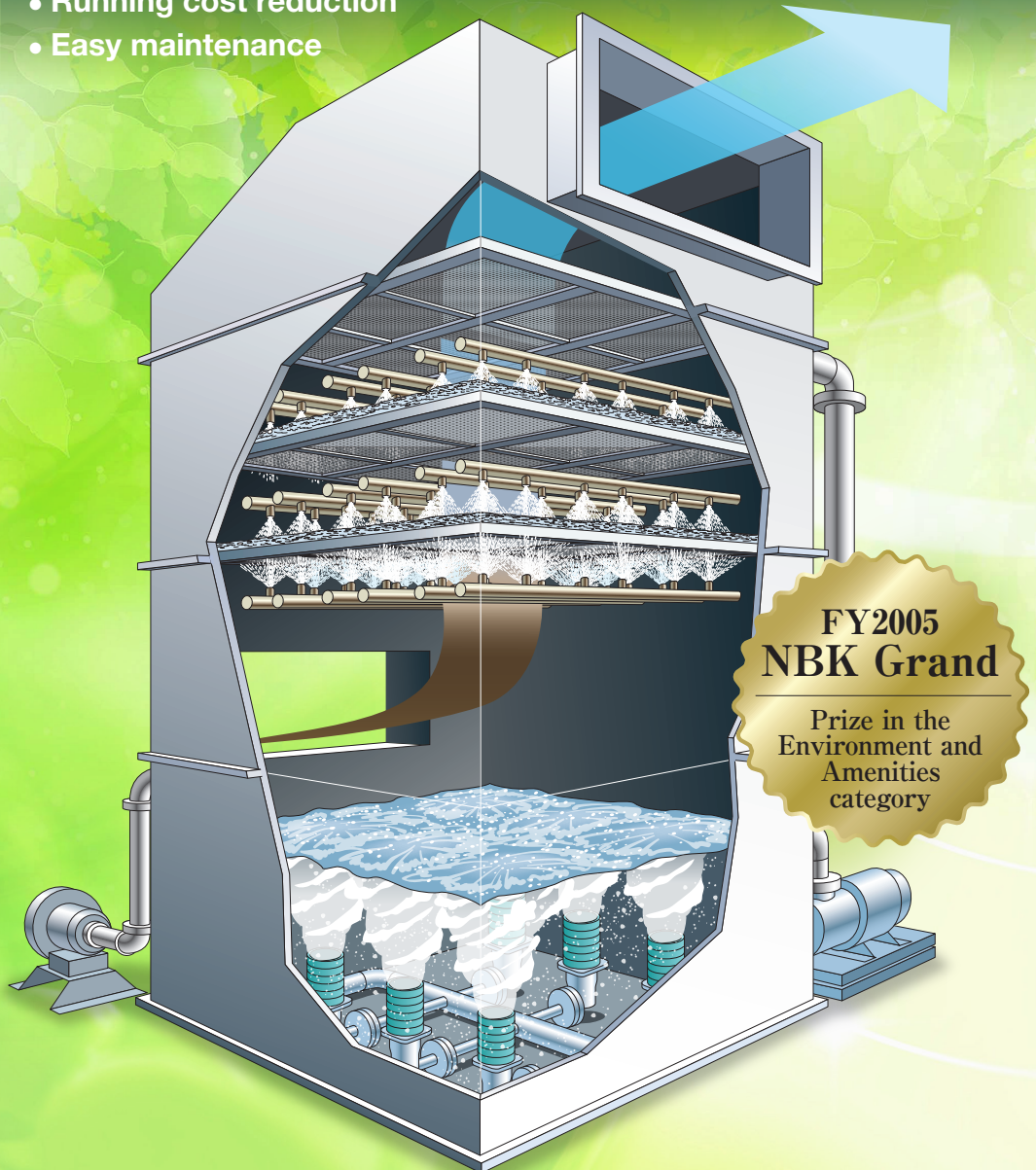
Reliable dust collection and deodorization through water film formation

Scrubber with circulating water purification functionality

Deoriser

- Capturing odors with water film
- Low pressure loss
- Minimizing sludge generation
- Running cost reduction
- Easy maintenance

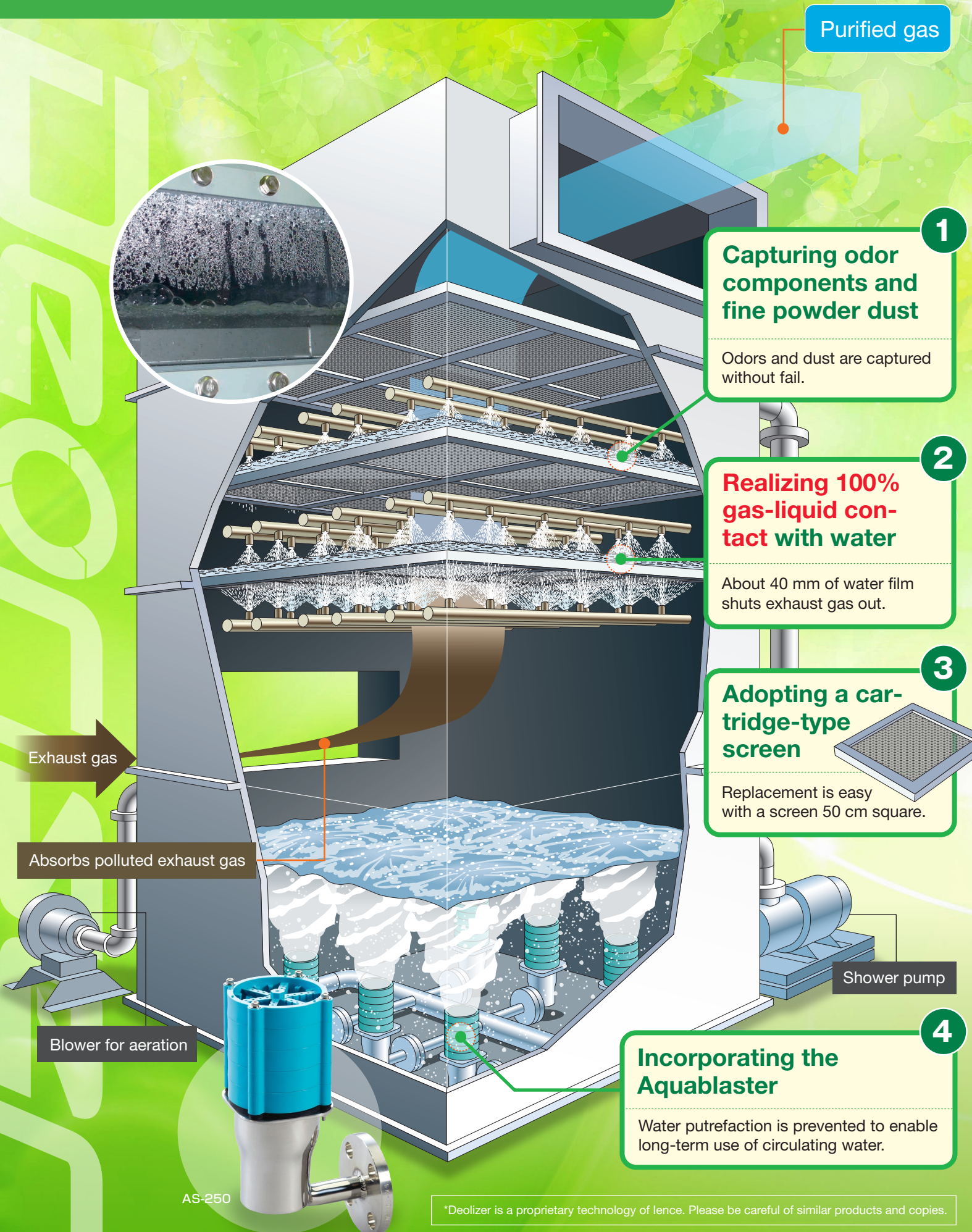
デオライザー



FY2005
NBK Grand

Prize in the
Environment and
Amenities
category

Special features of the "Deoriser"



*Deolizer is a proprietary technology of lence. Please be careful of similar products and copies.

Deoriser is a tough and low running cost product.

Deoriser makes a difference compared to other scrubbers!
Four features of Deoriser.

1

Capturing odors and dust

To say nothing of various odor-causing substances, fine powder dust can be captured reliably as well by the water film.

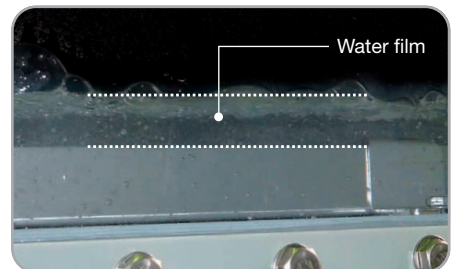


This picture shows the sludge collection section.

2

Capturing with water film

Water film formed on the screen realizes 100% gas-liquid contact efficiency.



3

Easy maintenance

Compared to conventional-type scrubbers, running costs are greatly reduced.



4

Minimizing sludge generation

The air diffusion device Aquablaster is installed. Water putrefaction is prevented to minimize sludge generation.



Applications / Supply record

The water film type Scrubber Deoriser responds to a wide variety of odor-causing substances in diverse plants



■ Casting plant exhaust gas treatment



■ Casting plant exhaust gas treatment



■ Semiconductor plant exhaust gas treatment



■ Pharmaceutical plant exhaust gas treatment



■ Organic solvent exhaust gas treatment



■ Organic solvent exhaust gas treatment



■ Paint plant exhaust gas treatment



■ Paint plant exhaust gas treatment

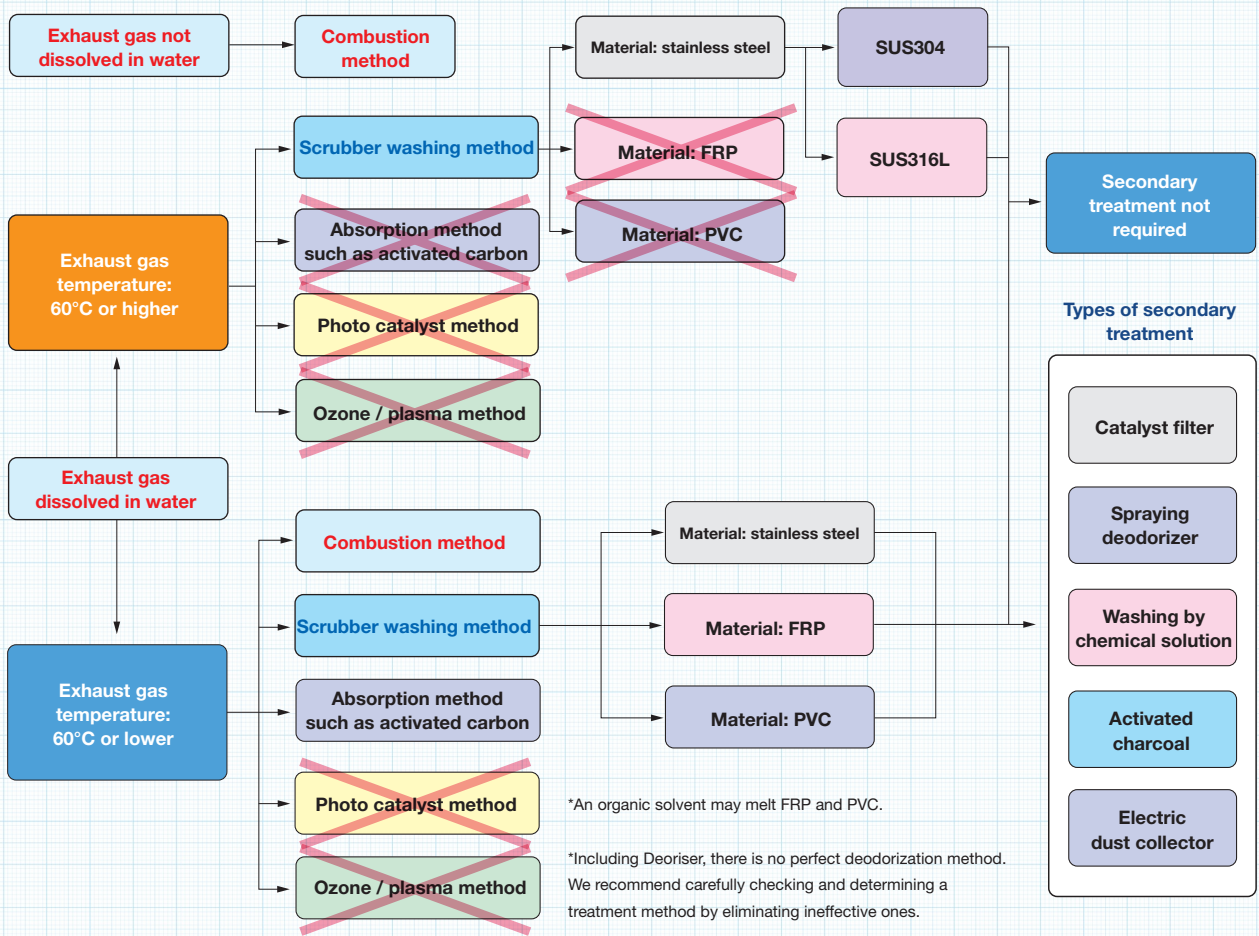


■ Chemical plant exhaust gas treatment



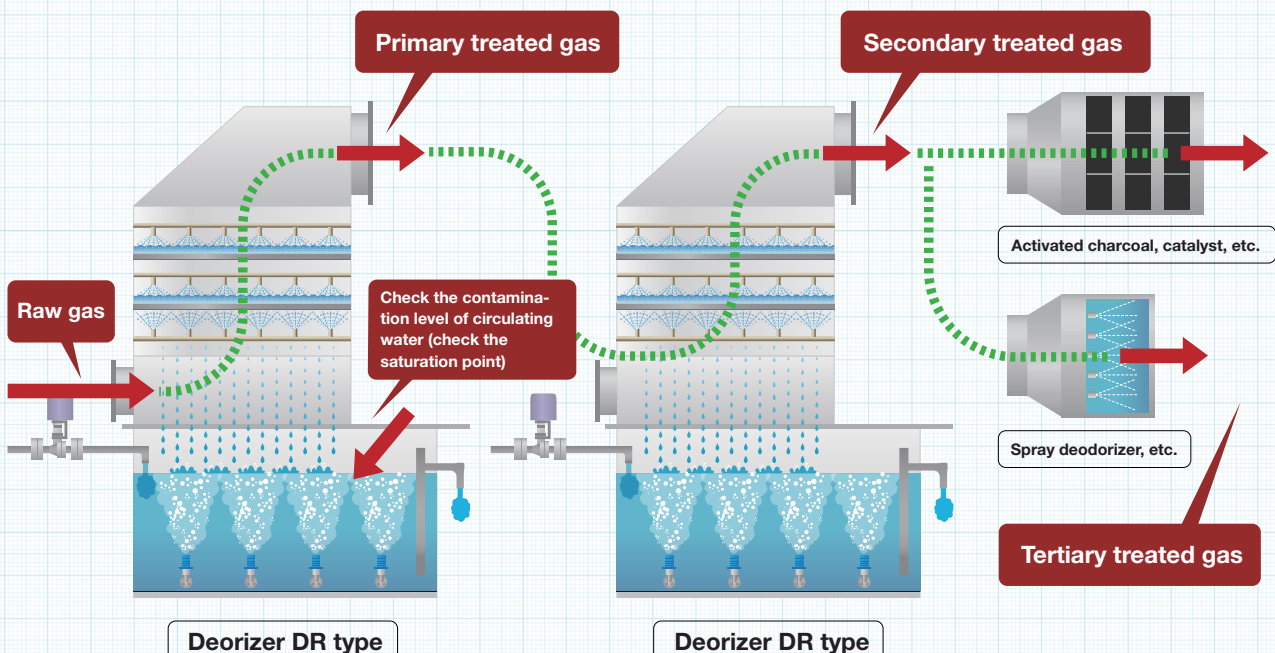
■ Chemical plant exhaust gas treatment

Treatment method determination flowchart



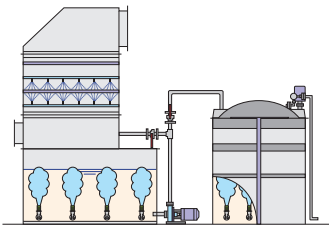
It is possible to carry out a demonstration experiment in the actual place.

By clarifying at which point the customer can be satisfied in a demonstration, various risks can be resolved.



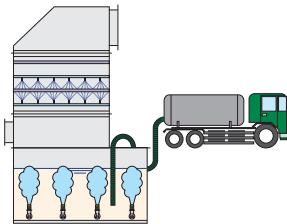
Deoriser circulating water treatment methods

1 Settling tank purification method



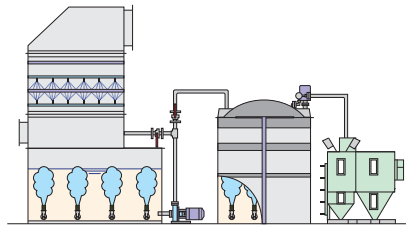
This is a method in which water that has finished circulating is transferred to a separate tank and gradually treated. For example, five tons of circulated water treated over 90 days means that only 55 liters of water needs to be treated per day, minimizing the load on wastewater treatment facilities and enabling diluted discharge.

4 Industrial waste method



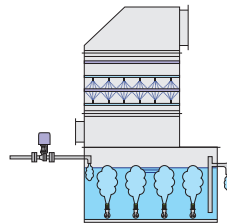
Circulating water is used continuously for as long as possible, and then disposed of as industrial waste. This method does not meet zero-emission targets, but it is suitable for businesses without wastewater or sewage water treatment facilities. The cost is reasonable as well, with five tons of circulating water being used for five months resulting in a per-ton cost of 35,000 yen, or 1,170 yen per day.

2 Water-treatment system simultaneous use method



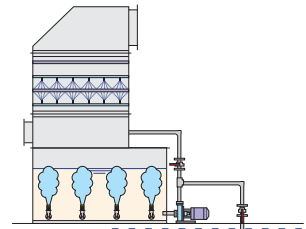
This method entails installing an Aience unit tank side by side with the Deoriser and regularly purifying and discharging water. Depending on the rate of water circulation, oil separating system or coagulator may also be used. This method is geared toward businesses without wastewater treatment or sewage water facilities.

5 Fixed-quantity water injection method



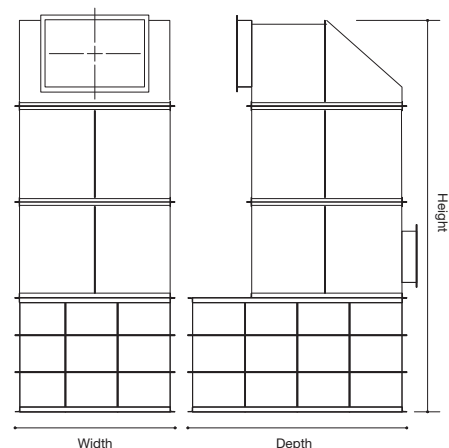
Fixed quantities of water are injected, controlled by a solenoid valve, keeping the circulating water continually overflowing and water being discharged within the permissible water discharge standards. This method is largely geared toward businesses with access to groundwater or other reasonably priced water sources.

3 Sewage water discharge method



Circulating water is discharged at appropriate intervals at levels permissible under sewage water discharge standards. At first, it is necessary to perform a series of data measurements and determine the length of use that will result in levels exceeding the sewage water discharge standards. However, once these have been performed this is a highly labor saving method.

Application	Duration between circulating water exchanges
Paint drying furnace exhaust gas treatment	1 to 4 months
Chemical factory exhaust gas treatment	1 to 4 months
Food factory exhaust gas treatment	1 to 4 months
Restaurant exhaust gas treatment	3 to 6 months



Water film type Scrubber Deoriser specifications table

Model	DR-1W	DR-2W	DR-4W	DR-6W	DR-9W	DR-12W	DR-16W	DR-20W	DR-24W	DR-30W
Treatment air volume (m3/min)	1~13	13~26	25~50	40~80	60~120	75~150	100~200	130~260	160~320	200~400
Main unit pressure loss	800 Pa in normal operation (1100 Pa when designed)									
Pump output/60 Hz (kW)	1.5	2.2	3.7	5.5	7.5	7.5	11	11	15	18.5
Blower output/60 Hz (kW)	0.53	0.53	0.88	2.1	2.1	2.8	3.6	3.6	3.6	6.3
Width (mm)	1,050	1,400	1,400	1,400	2,000	2,000	2,480	3,000	2,686	3,050
Depth (mm)	2,300	2,300	2,000	2,470	2,640	3,145	3,145	3,300	4,060	4,100
Height (mm)	2,591	2,591	3,605	3,755	3,790	4,155	4,155	4,155	4,355	6,124
Dry weight (kg)	550	850	1,150	1,450	2,700	3,250	3,950	4,200	5,350	5,900

*Designs may be modified as needed. *The shower washing section and the circulating water tank can be also separated.

FRP Deolizer Applications / Supply record



Grilled chicken processing exhaust gas treatment (FRP + SUS)



Casting plant exhaust gas treatment (FRP)



Farmyard compost dryer exhaust gas treatment (PVC)

■ Manufacturer



■ For inquiries and service

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