

SANREY

Sanrey
Environmental
Techonology

AIR POLLUTION PREVENTION EQUIPMENT

SANREY

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Website
QR Code



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About YunSen/Sanrey

Founder philosophy



Offer the best solution of Air prevention technology facility as customer oriented-

Since Pipe/Duct industry 30 years back to Air pollution prevention facility now, we always follow customer's demand with staying gold.

Core Team



To keep smoothly communication with customers-

YunSen/Sanrey's Core team can supply a completely Quotation process including demand advisory, professional service and survey on site for our respected customers. Furthermore we offer the proposal with 20 years durability and considering future maintenance service for customer's confidence .

OverSea Training program



To learn the latest technology-

We will arrange the oversea training program for our team progress and focus on our professional ability to make customer handle business with more efficiency .

Professional on Installation, Construction and Service



Accumulation Professional installation experience-

We keep regularly training our team for progress and promote inner team spirit higher on our air pollution prevention knowledge for customer .

History

1987

YunSen Environmental Technology Ltd. established by Founder Mr.Chen Shih-Yun.

2001

YunSen's 1st installation performance for SA type-High efficiency scrubber and Active carbon equipment.



2007

YunSen's 1st installation performance for SD type-Plasma Ozone Scrubber VOCs removal purification equipment.



2010

Sanrey Environmental Technology Ltd. Established. Focus on Importing / Exporting business.

SANREY

2012

Technical Cooperation with Japan Morikawa specific Solvent Condensation Recovery equipment.



2014

Won The gold medal awarded the Taiwan National Quality.



2020

Promoted **274** sets Air pollution prevention Equipment

Sold more **2000** barrels Deodorants!

2000

YunSen's 1st Installation performance for SF type-High efficiency Scrubber equipment.



2003

YunSen's 1st installation performance for SY type-Temple Burnt Smoke removal purification equipment.



2010

Won The gold medal awarded the Taiwan National Excellent Merchandise.



2013

Technical Cooperation with Japan NIOIX specific 100% Natural Deodorant -type SUA.



2018

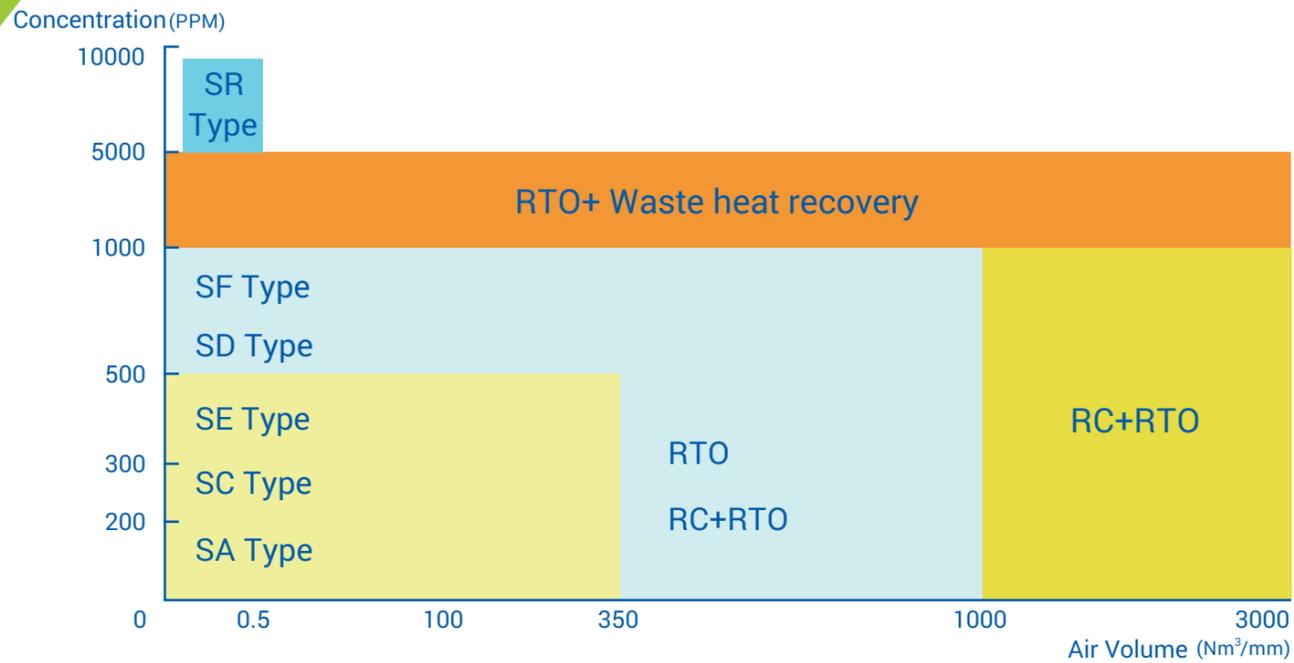
YunSen's 1st installation performance for SS type-Spray deodorant equipment.



Product Overview

Air pollution purification	VOCs removal	Odor Removal	Particles Removal	Oil Removal	Mist removal	Acid Gas removal	Smoke removal	Removal Efficiency	Air pollution purification	VOCs removal	Odor Removal	Particles Removal	Oil Removal	Mist removal	Acid Gas removal	Smoke removal	Removal Efficiency
 SA type-High Efficiency Scrubber and Active Carbon Equipment	✓	✓	✓	✓	✓	✓	✗	80%	 SU type-Deodorant	✗	✓	✗	✗	✗	✗	✗	80%
 SF type-High Efficiency Wet scrubber equipment	✓	✓	✓	✓	✓	✓	✗	80%	 SS type-Spray deodorant equipment	✗	✓	✗	✗	✗	✗	✗	70%
 SD type-Plasma Ozone Scrubber VOCs removal purification equipment	✓	✓	✓	✓	✓	✓	✗	80%	 ST type-AquaBlaster	✓	✓	✗	✗	✗	✗	✗	70%
 SG type-High efficiency scrubber and Active carbon purification equipment	✓	✓	✓	✓	✓	✓	✗	80%	 SR type-VOCs Recovering System Efficiency equipment	✓	✗	✗	✗	✗	✗	✗	99%
 SE type-Active carbon purification equipment	✓	✓	✗	✗	✗	✗	✗	80%	 RTO Regenerative Thermal Oxidizer system	✓	✓	✗	✗	✗	✗	✗	99%
 SC type-Plasma Ozone Generator	✓	✓	✗	✗	✗	✗	✗	80%	 RC+RTO Rotor Concentrator +RTO system	✓	✓	✗	✗	✗	✗	✗	90%

Applicable scope of VOCs Removal/deodorizing equipment



SF Type (Scrubber), SD Type (Plasma Ozone Scrubber equipment)

Coating / Plastic manufacturing process / Chemistry /
Electronic semiconductor / Food

SR Type (VOCs Recovering System Efficiency equipment)

Electronic parts cleaning machine / Cleaning machine

SA Type (Scrubber and Active carbon equipment), SC Type (Plasma Ozone), SE Type (Active carbon equipment)

Plastic Industry / Rubber Industry / Printing Industry / Food /
Sewage Treatment Plant / Feed Industry

RTO+ Waste heat recovery

Optical Film / Solar Film / Electronic Film / Protecting Film

RC+RTO

Electronic / Stucco manufacturing / Paint manufacturing / Coating

Installation Performance

Customers



✓ **13** pattern rights and prizes

✓ **16** technical engineers

✓ **270** sets of installation performance

✓ **33** years of seniority with experiences

SA Type-High Efficiency and Active Carbon Scrubber Equipment

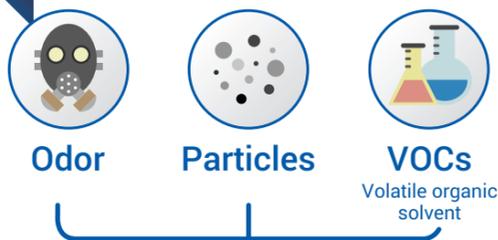
Feature of Product

100 sets of Installation Performace



- Cleaner** Volatile organic solvent **80%** Removal efficiency
- Stronger** Bump bearing is stronger **100%** stable
- Smaller** Lesser Volume **50%** Space Saving.

Air pollution prevent processing steps



Pumping Fan



SA-High Efficiency and Active Carbon Scrubber Equipment



Chimney Emissions

(Environmental protection standards complied)

Purifying Upgrade

It's our patterned way not only to use concatenation way to combine Scrubber +Mist Eliminator +Active carbon in ONE facility.

But also for using with Ozone plasma machine or Deodorant together.

To make the removal efficiency be better and higher.

VOCs/Odor removal



Processing techonlogy description



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The 5th processing

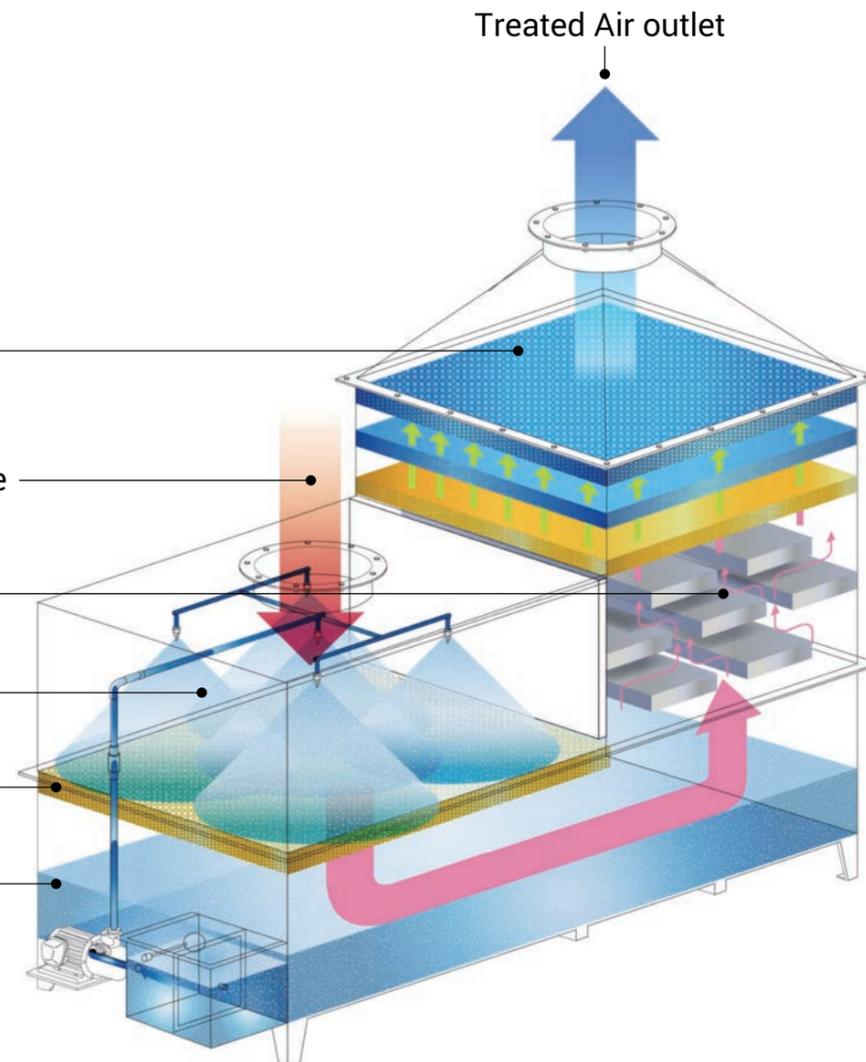
Exhausted air entrace

The 4th processing

The 1st processing

The 2nd processing

The 3rd processing



STEP 1

The high-efficiency sprayer is in contact with the turbulent flow of the packings, and the exhaust air molecules are converted from the gas phase to the liquid phase.

STEP 2

Filled with a specific surface area of 100m²/m³ packings, so that the gas and liquid have sufficient more opportunities for contacting.

STEP 3

Use circulating washing liquid to reduce the amount of waste water. Additionally, our AQUABLASTER can be selected to install in Sanrey equipment to save 80% of water consumption.

STEP 4

Multi-layers mist eliminator (SUS304), collect the moisture in the gas not only reduce the moisture in the exhaust port but also extend the life of the active carbon filters.

STEP 5

Once the exhaust gas is adsorbed by activated carbon, 70-80% of VOCs and peculiar smell can be also eliminated.

SF Type-High Efficiency Wet scrubber equipment

Feature of Product

35 sets of Installation Performace



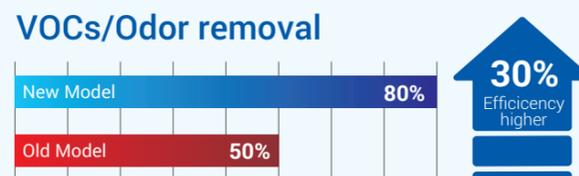
- Cleaner** Volatile organic solvent **80%** Removal Efficiency
- Stronger** Bump bearing is stronger **100%** stable
- Smaller** Lesser Volume **50%** Space Saving.

Purifying Upgrade

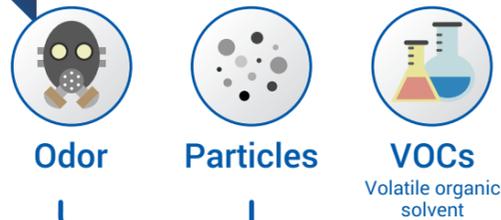
It's our patterned way not only to use concatenation way to combine Scrubber +Mist Eliminator +Active carbon in ONE facility.

But also to use Ozone plasma machine or Deodorant together.

To make the removal efficiency be better and higher.



Air pollution prevent processing steps



High Efficiency Wet type scrubber equipment



Pumping Fan



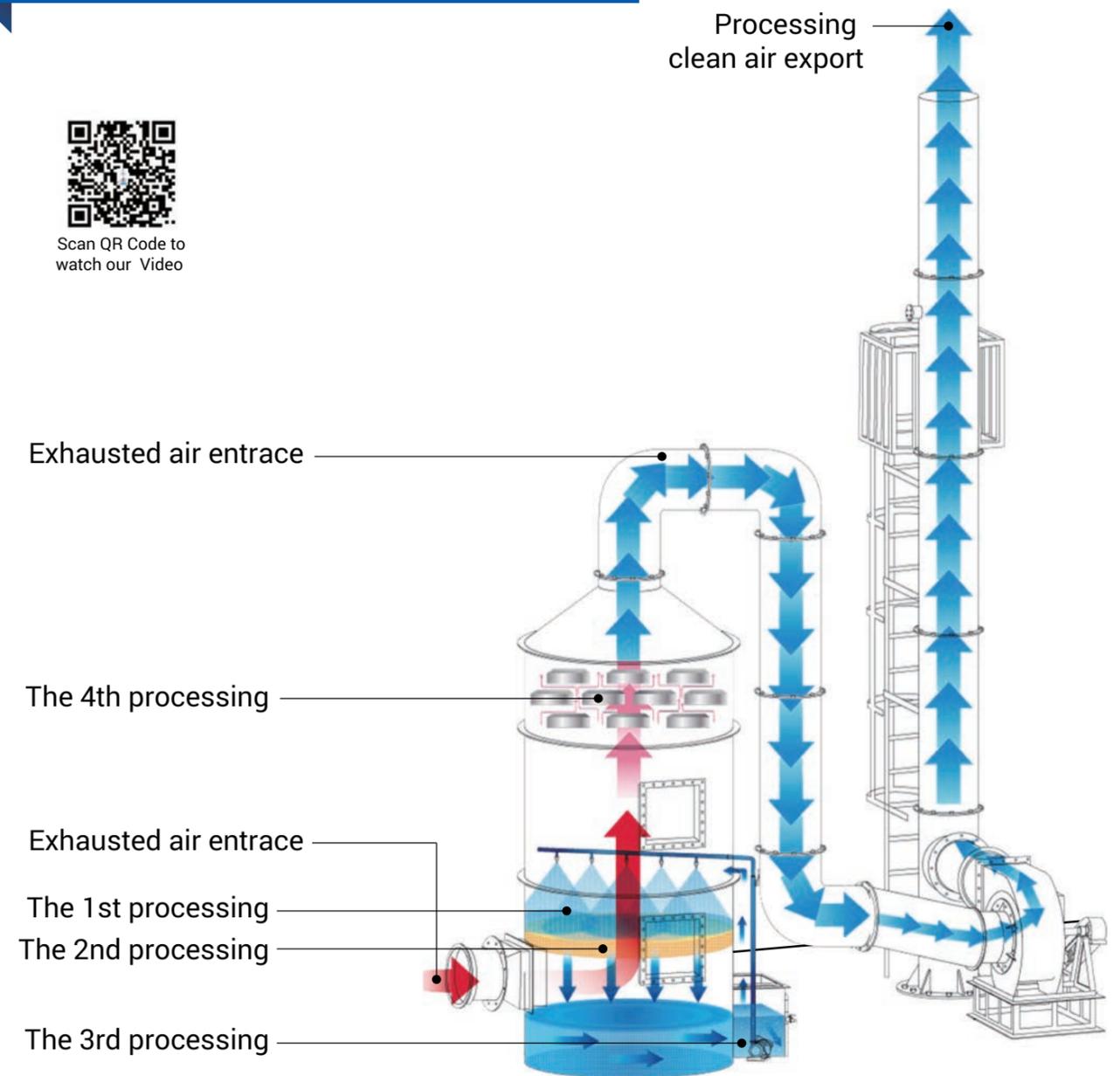
Chimney Emissions

(Environmental protection standards complied)

Processing technology description



Scan QR Code to watch our Video



STEP 1

High Efficiency Nozzle spray make exhausted air phase to liquid phase by touching packing system spooling.

STEP 2

Coming to the 2nd processing will use the packing with Surface area 100M²/m³ to make air and liquid could be completely touched.

STEP 3

We also use the circulation water to reduce the wasted water .By the way, you can also select ST Aquablaster product to save 80% water usage.

STEP 4

Multi-layers Mist Eliminator (with patterned) will collect the moisture of exhausted air to reduce export air moisture so that it could extend filter life time.

SD Type-Plasma Ozone Scrubber VOCs removal purification equipment

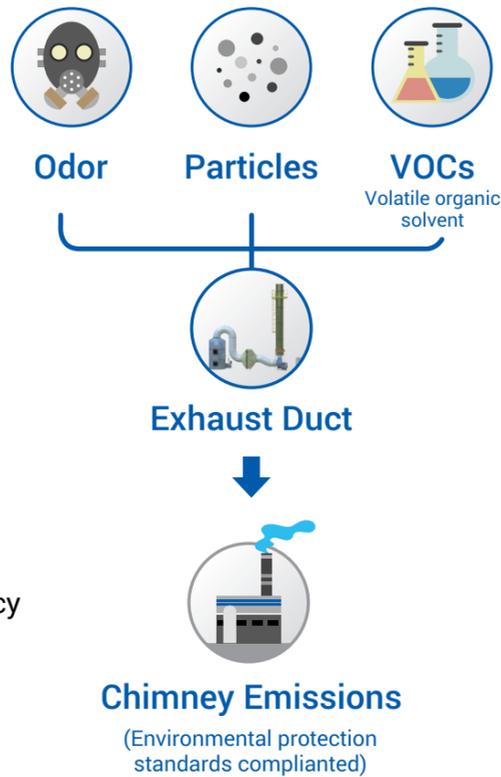
Feature of Product

16 sets of Installation Performace



- Cleaner** Volatile organic solvent **80%** Removal Efficiency
- Stronger** Bump bearing is stronger **100%** Stable
- Smaller** Lesser Volume **50%** Space Saving.

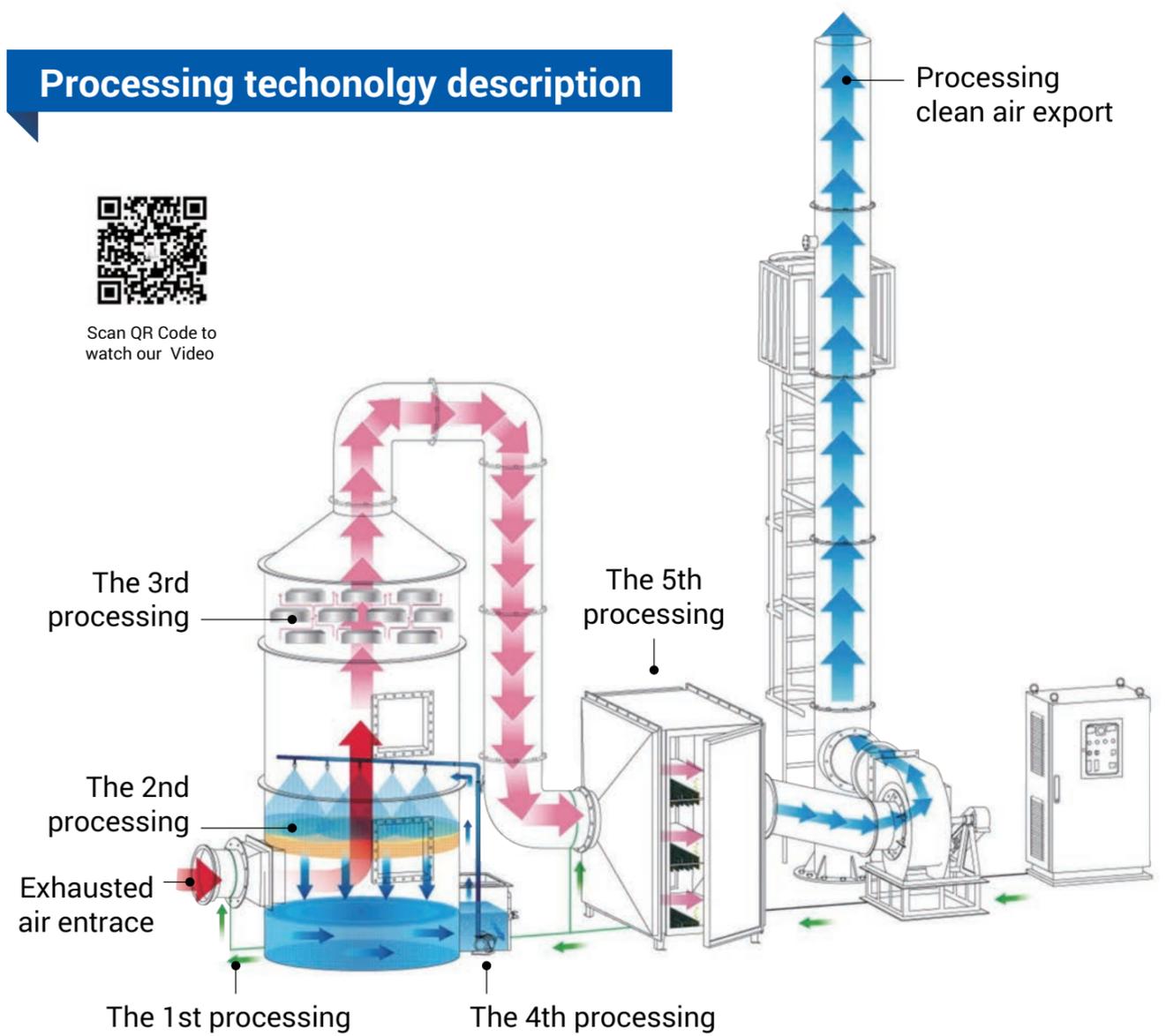
Air pollution prevent processing steps



Processing techonlogy description



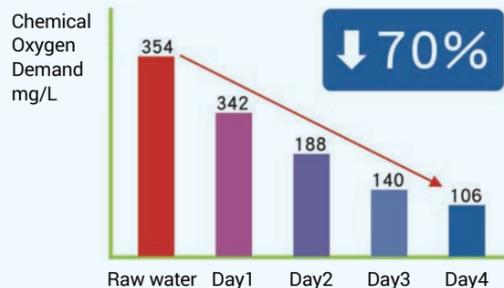
Scan QR Code to watch our Video



- STEP 1** High Efficiency Nozzle spray make exhausted air phase to liquid phase by touching packing system spoiling.
- STEP 2** Coming to the 2nd processing will use the packing with Surface area $100\text{m}^2/\text{m}^3$ to make air and liquid could be completely touched.
- STEP 3** Multi-layers Mist Eliminator (with patterned) will collect the moisture of exhausted air to reduce export air moisture so that it could extend filter life time.
- STEP 4** We also use the circulation water to reduce the wasted water .By the way, you can also select ST Aquablaster product to save 80% water usage.
- STEP 5** Use Ozone, once the exhaust gas is adsorbed by activated carbon, 70-80% of VOCs and peculiar smell can be also eliminated.

Feature of Equipment

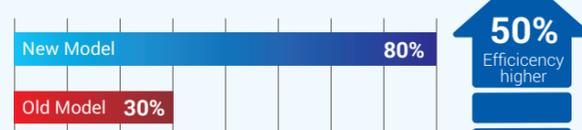
Use AQUABLASTER
Reduction of wastewater COD value



Purifying Upgrade

It's our patterned way to use concatenation way to combine Scrubber +Mist Eliminator +Active carbon+ Ozone-plasma machine. To make the removal efficiency better and higher.

VOCs/Odor removal



SG Type-High efficiency scrubber and Active carbon purification equipment

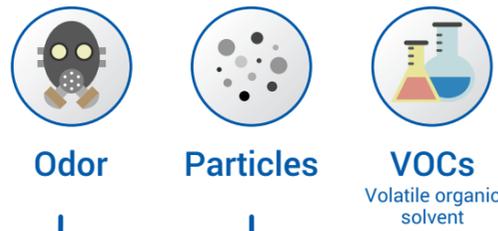
Feature of Product

3 sets of Installation Performace



- Cleaner** Volatile organic solvent **80%** Removal Efficiency
- Stronger** Bump bearing is stronger **100%** Stable
- Smaller** Lesser Volume **50%** space Saving.

Air pollution prevent processing steps



SG High efficiency scrubber and Active carbon purification equipment



Chimney Emissions
(Environmental protection standards complianted)

Purifying Upgrade

It's our patterned way not only to use concatenation way to combine Scrubber +Mist Eliminator +Active carbon in ONE facility.

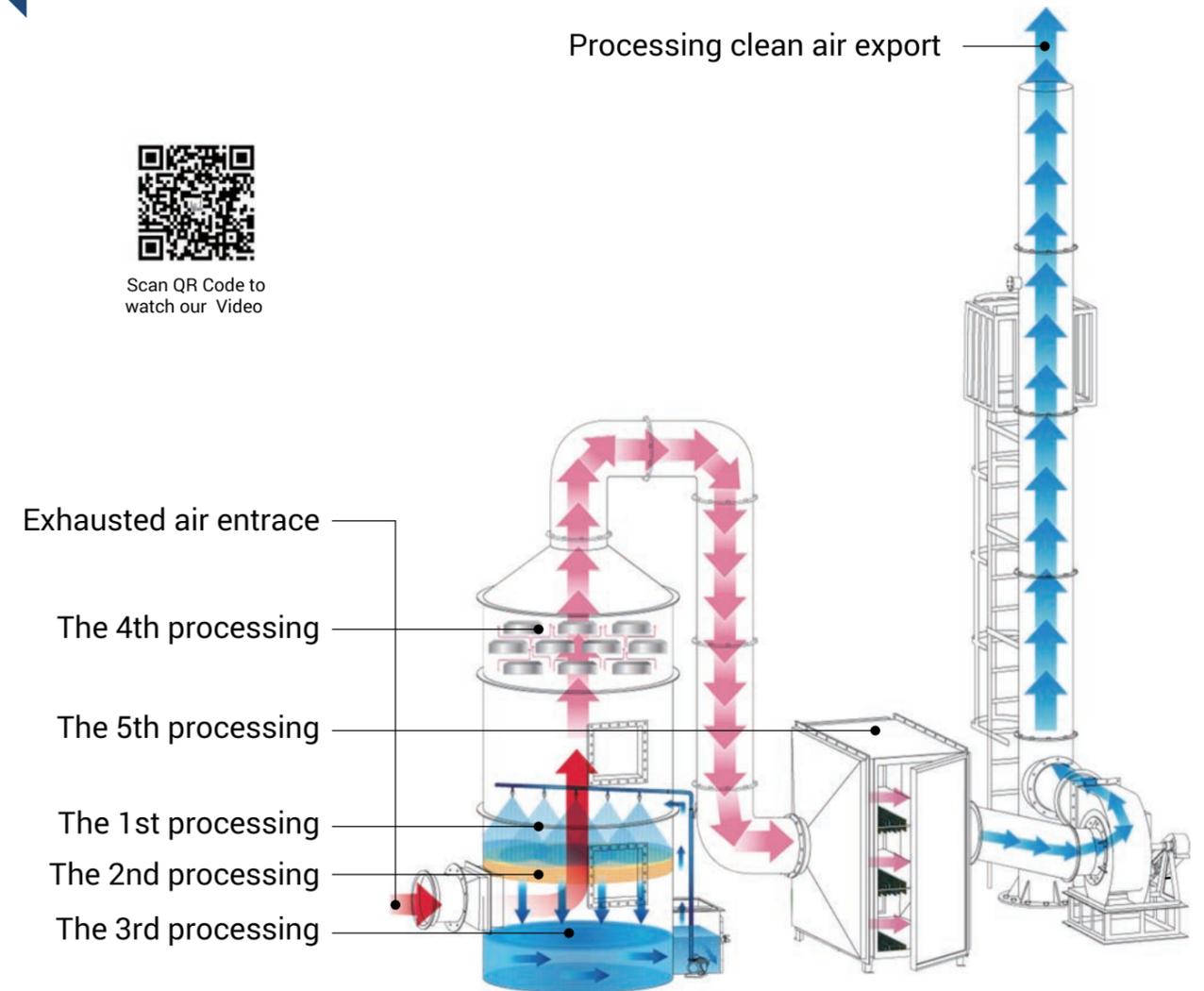
But also to use Ozone-plasma machine or Deodorant together. To make the removal efficiency better and higher.



Processing techonlogy description



Scan QR Code to watch our Video

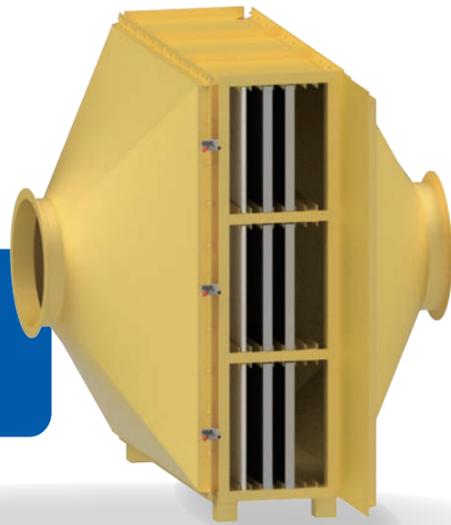


- STEP 1** High Efficiency Nozzle spray make exhausted air phase to liquid phase by touching packing system spoiling.
- STEP 2** Coming to the 2nd processing will use the packing with Surface area 100m²/m³ to make air and liquid could be completely touched.
- STEP 3** We also use the circulation water to reduce the wasted water. By the way, you can also select ST Aquablaster product to save 80% water usage.
- STEP 4** Multi-layers Mist Eliminator (with patterned) will collect the moisture of exhausted air to reduce export air moisture so that it could extend filter life time.
- STEP 5** Once the exhaust gas is adsorbed by activated carbon, 70-80% of VOCs and peculiar smell can be also eliminated.

SE Type-Active Carbon purification equipment

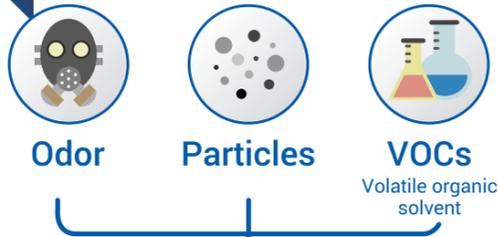
Feature of Product

46 sets of Installation Performace



- Cleaner** Volatile organic solvent **80%** Removal Efficiency
- Stronger** Longer Internal parts using life time **100%** Stable
- Smaller** Lesser Volume **50%** Space Saving.

Air pollution prevent processing steps



SE-Active Carbon purification equipment



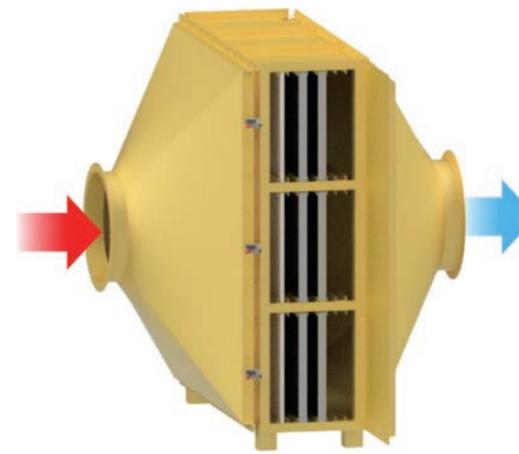
Pumping Fan



Chimney Emissions

(Environmental protection standards complied)

Processing techonlogy description



Extractive way



Fixed way



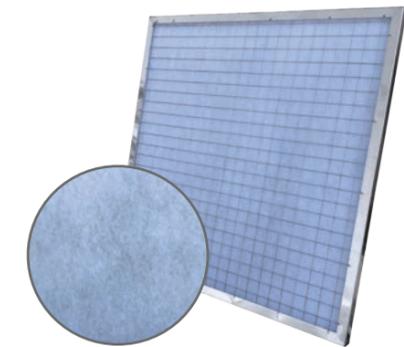
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STEP 1

The exhausted air will go through Non-woven fabric to filter the particles to reduce blocking on Active carbon filter, it could extend usage life longer.

SIZE L595xW595xD20(mm)

Weight 1KG (Frame included)



STEP 2

Our specific multi-holes of our Active carbon filters could remove 70-80% VOCs and Odor.

SIZE L595x W595x D45(mm)

Weight 13KG (Frame included)

Contents 8KG of Granular Activated Carbon Filter



Purifying Upgrade

It's our patterned way not only to use concatenation way to combine Scrubber +Mist Eliminator +Active carbon in ONE facility.

But also for using with Ozone plasma machine or Deodorant together.

To make the removal efficiency be better and higher.

VOCs/Odor removal



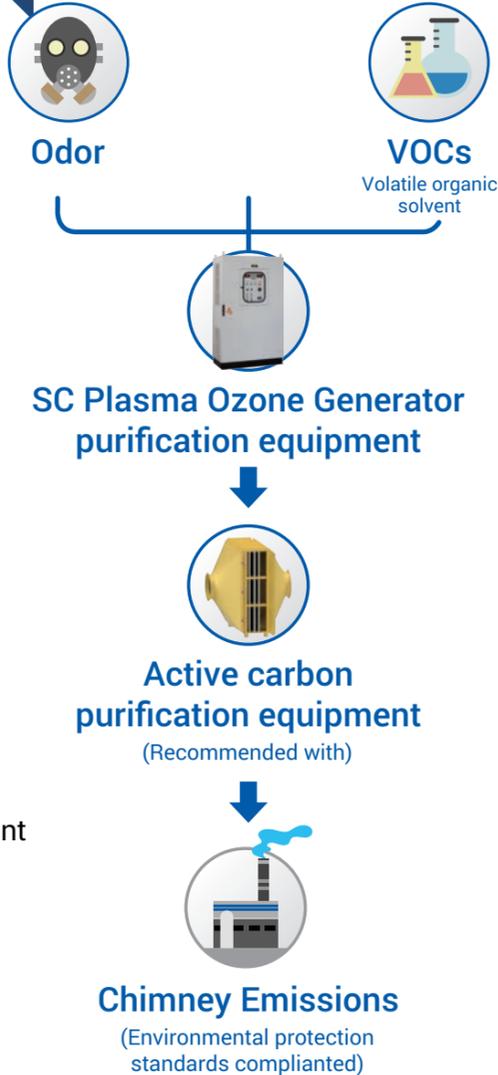
SC Type-Plasma Ozone Generator purification equipment

Feature of Product

22 sets of Installation Performace



Air pollution prevent processing steps



Cleaner 80% Removal Efficiency for Volatile organic solvent

Stronger ozone generator durability **100%** stable

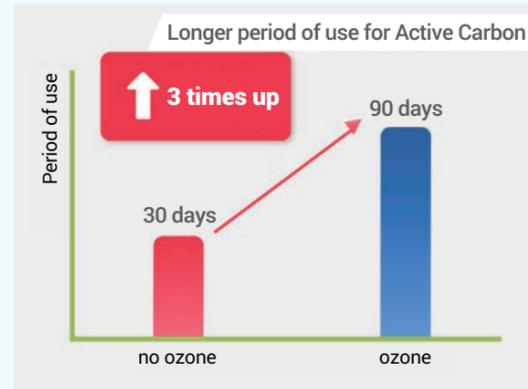
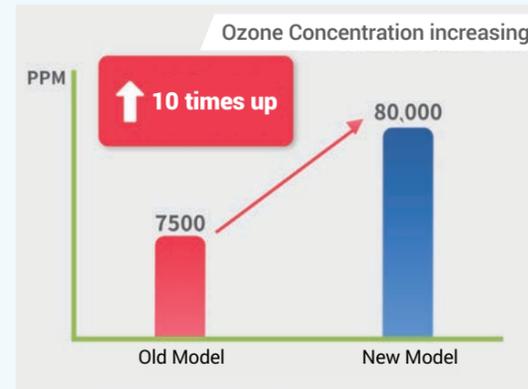
Smaller Lesser Volume, saving **50%** space

Purifying Upgrade

It could be equipped with SE activated carbon equipment or with SF scrubber + SES oxidation reaction tank. To make the removal efficiency better and higher.



Feature of Equipment



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Internal module description

Ozone Generation Module



3.0 Upgraded Version Scalable Module Quick Repair

PSA oxygen generator



Oxygen generator-Unit with Dust proof and Automatic drainage

SU Deodorant

Feature of Product

Sales Volume more than **2000** Barrels



Cleaner Odor **80%** Removal Efficiency

More Natural
Natural plant extracts **100%** natural

More energy efficient
Energy more efficient for using with Sanrey other equipments. **80%** Energy efficient

SU Deodorant ingredient description

SUA 100% Natural Deodorant

- ✓ 30 Kinds of Herbal extract
- ✓ 100% Plant
- ✓ No chemical ingredients by Japan's Osaka Industrial Technology Research Institute tested

SUB High Efficiency Deodorant

- ✓ 40 Kinds of natural fragrance ingredients
- ✓ Surfactant
- ✓ Suitable for outdoor

Product description

SUA 100% Natural Deodorant

Pure Natural Odor removal Dilutable



20 Liters per barrel Price NT\$2625.-
4 Liters per barrel Price NT\$735.-

SUB High Efficiency Deodorant

Industrial Odor removal Dilutable



20 Liters per barrel Price NT\$2625.-
4 Liters per barrel Price NT\$735.-

SU deodorant Instructions:

Please dilute with 100-500 times of clean water. It's our patterned way to use Deodorant dosing system or use it in the Scrubber. (Please adjust the ratio according to the odor concentration)

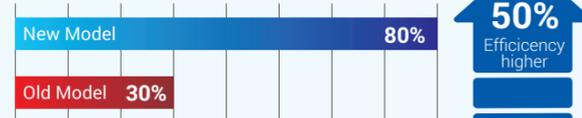


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Purifying Upgrade

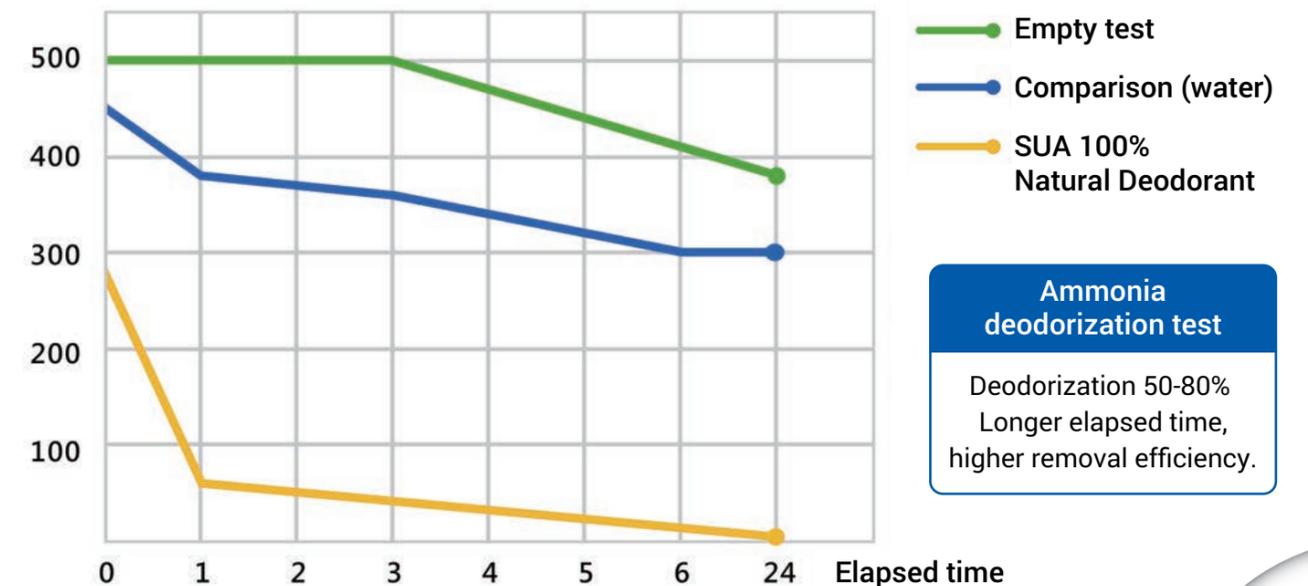
It could be equipped with SA Active carbon scrubber or SF scrubber equipment. To make the removal efficiency better and higher.

VOCs/Odor removal



Test inspection of Ammonia

Gas concentration (ppm)



Ammonia deodorization test

Deodorization 50-80%
Longer elapsed time, higher removal efficiency.

SS type-Spray deodorant equipment

Feature of Product



- Cleaner** Odor **70%** Removal Efficiency
- Stronger** Lesser power consumption, Saving **80%** Energy
- Smaller** Lesser Volume **70%** Space Saving

Air pollution prevent processing steps

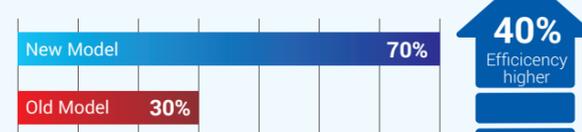


Chimney Emissions
(Environmental protection standards complied)

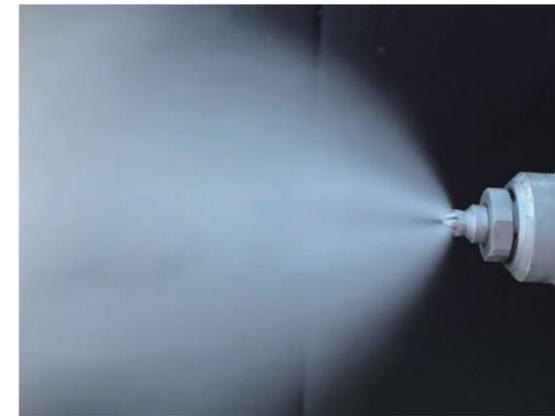
Purifying Upgrade

Suitable for various of processes and odors by factory production

Odor removal



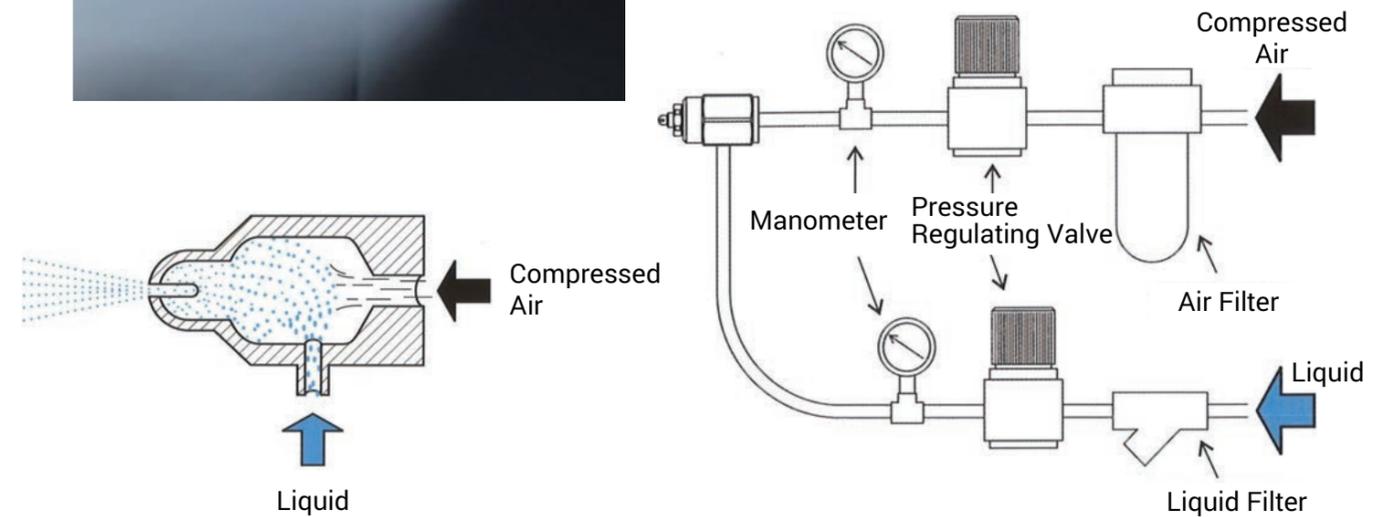
Processing technology description



Freely choosing **10-12** kinds of water and air particle size matching.



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STEP 1 Using the principle of high-speed flow of compressed air, the liquid atomized particles reach below 10 microns.

STEP 2 The compressed air is 1-3.5kgf/cm² in the center of the spray.

STEP 3 The liquid flows in the inner center. The high-pressure compressed air is used to atomize the liquid into particles.

STEP 4 After the liquid is pressurized, supply the pressurized liquid to sprayer to use with the liquid pressure regulating valve and the gas pressure regulating valve.

STEP 5 Fully contacted with 100-500 times diluted deodorant to remove odor molecules in the gas.

ST type AquaBlaster

Feature of Product



Cleaner

70% removal rate of wastewater COD value

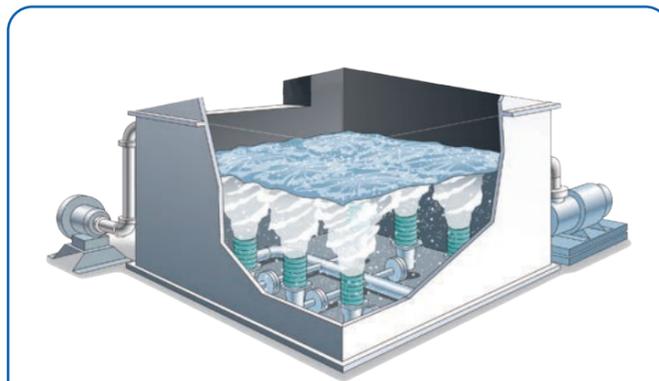
Stronger

100% durable for 10 years

More energy efficient

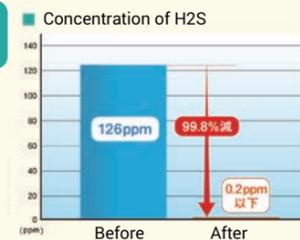
45% power consumption saving

Aquablaster Installation Diagram



Zero Odor output

Use microorganisms to make oxygen metabolism completed and reduce odor of hydrogen sulfide



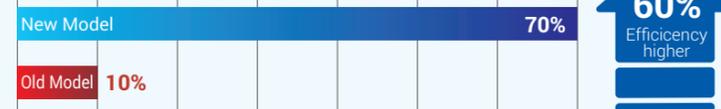
Annotation 1: If hydrogen sulfide is in an anaerobic status and there is no continuous oxygen supply in the standing tank, it will also produce bad odor

Annotation 2: Above data output all based on Sanrey's design theory

Purifying Upgrade

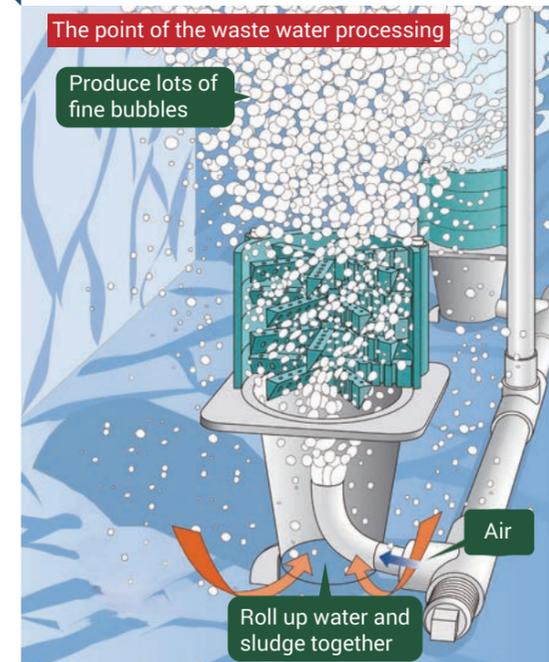
Reduce the COD value of waste water.
Effectively reduce waste water usage.

Reduce Waste water usage



60%
Efficiency higher

Technical description of equipment processing flow



The secret to make waste water tank keep purifying —

Circulating aeration



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The system of Circulating aeration

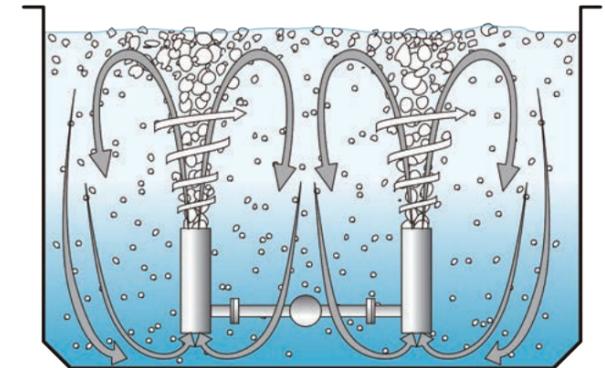


Diagram of difference before and after introduction of AquaBlaster

BEFORE

Before Introduction



- Disturbed by the bad smell of corruption produced by wastewater
- A large amount of sludge accumulated at the bottom of the wastewater treatment tank
- Waste cleaning time of sludge high viscosity
- High maintenance costs of sewage recycling

- Sludge generated before AquaBlaster introduction



AFTER

After Introduction



- Bad smell of corruption is disappeared
- Huge Lesser of sludge accumulated at the bottom of the wastewater treatment tank
- Save cleaning time of sludge viscosity become lower
- Reduced number of times of circulating water replacement

- Sludge generated before AquaBlaster introduction



SR Type-VOCs Recovering System Efficiency equipment

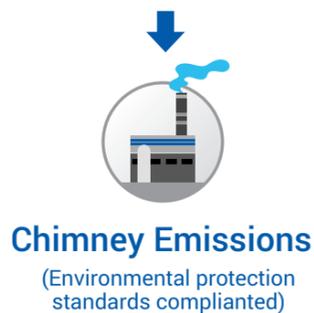
Feature of Product

600 sets of Installation Performace in Japan

5 sets of Installation Performace in Taiwan



Air pollution prevent processing steps



- Cleaner** Volatile organic solvent **99%** removal efficiency
- Stronger** Longer Internal parts using life time **100%** stable
- More energy efficient** High recovery Efficiency rate with low cost **95%** More energy efficient

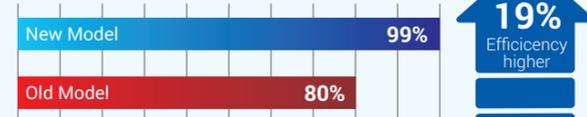
11 Recyclable VOCs of SR equipment

Dichloromethane | Trichloroethane
Trichloroethylene | Tetrachloroethylene
Bromopropane | Methanol | R113
Hydrochlorofluorocarbons-225 | Vertrel
HFE-7100 | HFE-7200

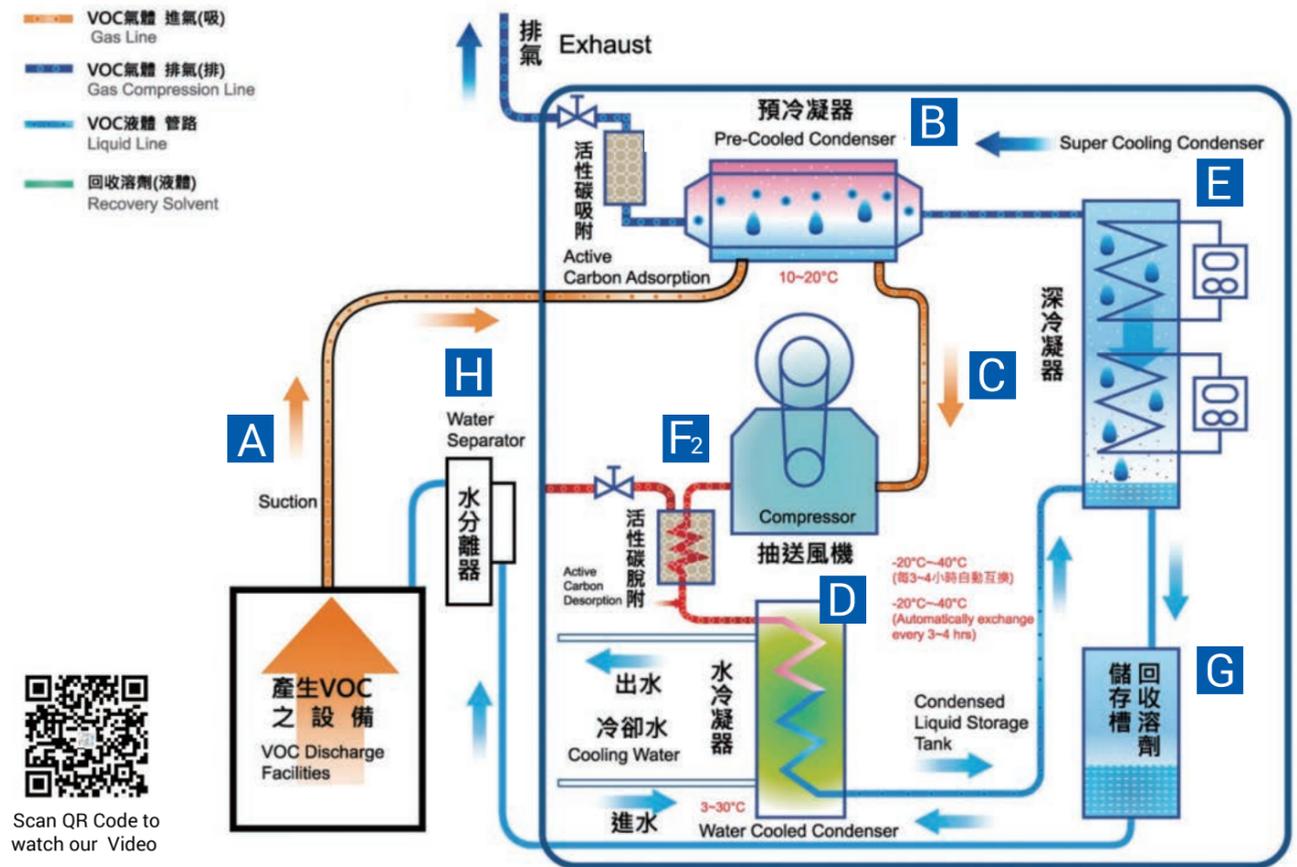
Purifying Upgrade

Super Cooling Condensation way to make more efficient

VOCs/Odor removal



Processing technolgy description



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- A** High density Solvents Vapor is sucked out with low suction.
- B** Slovents vapor is condensaed in Pre-cooled condenser used lowtemperature air (20 degrees C) from the super cooling condenser.
- C** The condensed solvent vapor is compressed by a compressor.
- D** The compressed solvent vapor is liquefied in Water cooled Condenser.
- E** The compressed solvent vapor is almost liquefied in water cooled condenser.
- F1** The un-condensed vapor is adsorbed by active carbon unit.
- F2** The solvent vapor adsorbed by the active carbon will be introudced to STEP C.
- G** The condensed liquid is periodically conveyed to the condensed liquid storage tank.
- H** The liquid in the storage tank will seperated out water when go through Water separation system, then the solvent could be recycled again.

Rotor Concentrator+ RTO system equipment

Feature of Product



Cleaner Volatile organic solvent **95%** Removal Efficiency

Safer 10 Explosion-proof Devices **100%** Safety

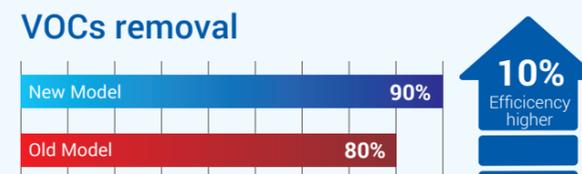
Smaller Lesser Volume **50%** Space saving

Air pollution prevent processing steps

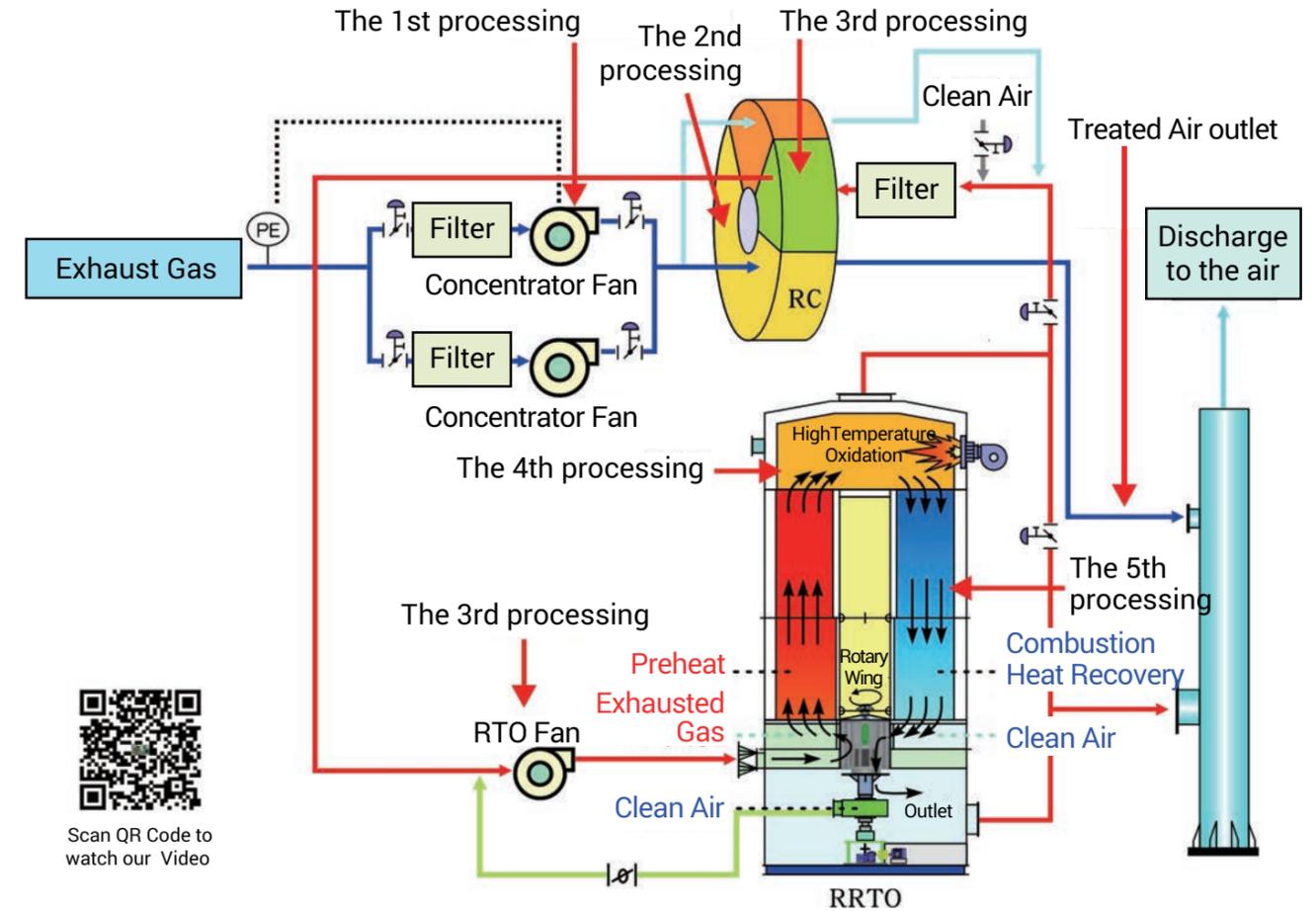


Purifying Upgrade

The integration of small incineration systems and RTO equipment improved higher efficiency.



Processing technology description



STEP 1 The exhaust gas enters the Rotor Concentrator equipment through the induction fan.

STEP 2 After VOCs are adsorbed by the RC equipment, 90% of the VOCs can be effectively removed and discharged to the atmosphere through the chimney.

STEP 3 After the concentrated exhaust gas is desorbed at 250°C, it enters the RTO equipment through the induction fan.

STEP 4 In the 800°C combustion chamber, it can effectively remove 99% VOCs.

STEP 5 The gas passes through the ceramic heat storage material to recover 95% of the heat energy and converts it into the heat storage material, and the clean gas is discharged to the atmosphere.

SW Type-Non-woven filter



Scan QR Code to watch our Video

Feature of Product

Sales Volume more than **200** sheets

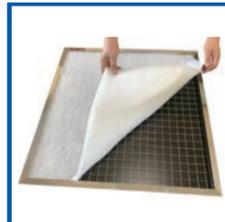


- Cleaner** 80% Particles Removal Efficiency
- Stronger** Stainless steel frame **100%** Stable
- Smaller** Lesser Volume **50%** Space saving

Characteristic of Product



High air permeability
10mmH₂O air permeability 0.1 mm dust 90% Obstructed



Easy to replace



Easy disassemble

SX Type-Granular Activated Carbon filter



Scan QR Code to watch our Video

Feature of Product

Sales Volume more than **1200** sheets



- Cleaner** Volatile organic solvent **80%** Removal Efficiency
- Stronger** Stainless steel frame **100%** Stable
- Smaller** Lesser Volume **50%** Space saving

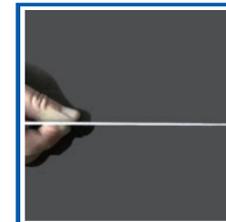
Characteristic of Product



Easy to fill



Additional strengthening



0.8mm thickness (Material : SUS304)



High air permeability
Ø3mm diameter less than 80mmH₂O
Structure strengthened

Purifying Upgrade

It could be equipped with SA active carbon scrubber or SE activated carbon equipment, to make the removal efficiency better and higher.

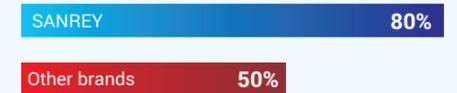
Dust/Particles removal



Purifying Upgrade

It could be equipped with SA active carbon scrubber or SE activated carbon equipment, to make the removal efficiency better and higher.

VOCs/Odor removal



Concisely to know

SOLUTION POLICY

What Environmental consulting company DO?

1. Help customer to apply Fixed pollution source setting up and change permit application.
2. Apply the permit application for Fixed pollution source.
3. Regular declaration of air sewage.

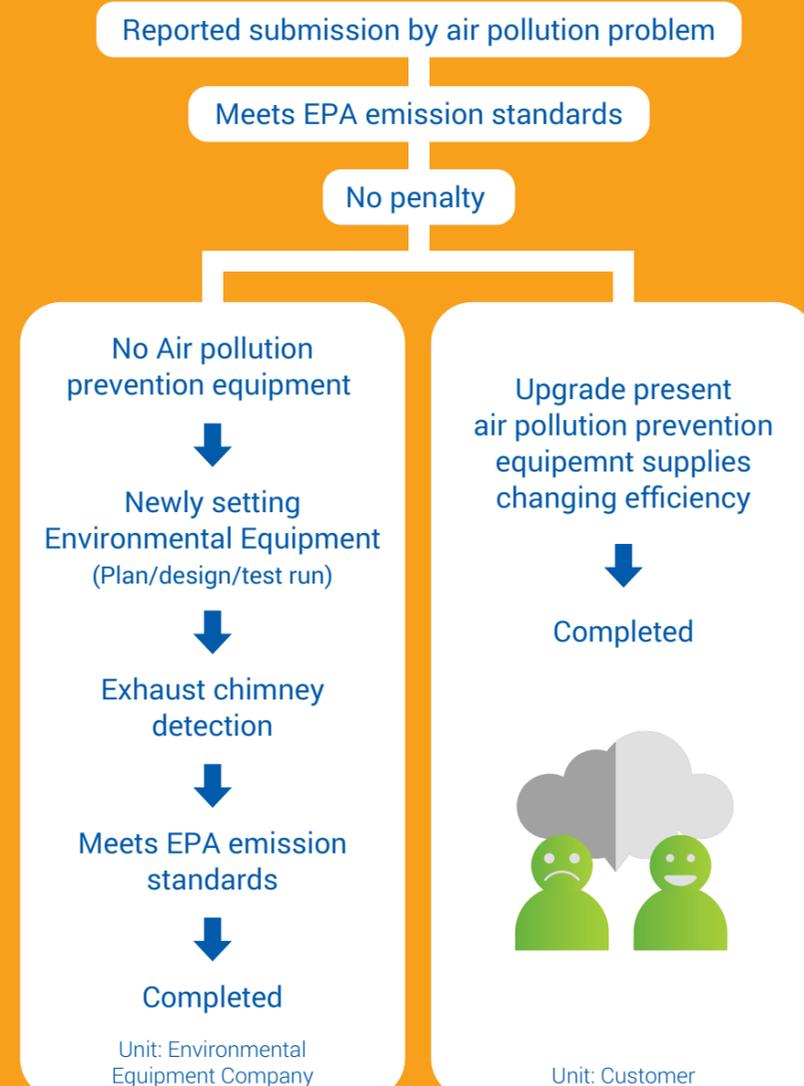
What Sanrey DO?

1. Offer the design and planning for Whole plant gas collecting hood, duct and air volume
2. Design the Air pollution prevention equipment and offer the functional calculation.
3. Can make, install, test running and offer regularly maintenance for Sanrey air pollution prevention equipment.
4. Consultation on air pollution problems and provide total solutions.
5. Sharing customers about the latest environmental regulations and environmental equipment information.

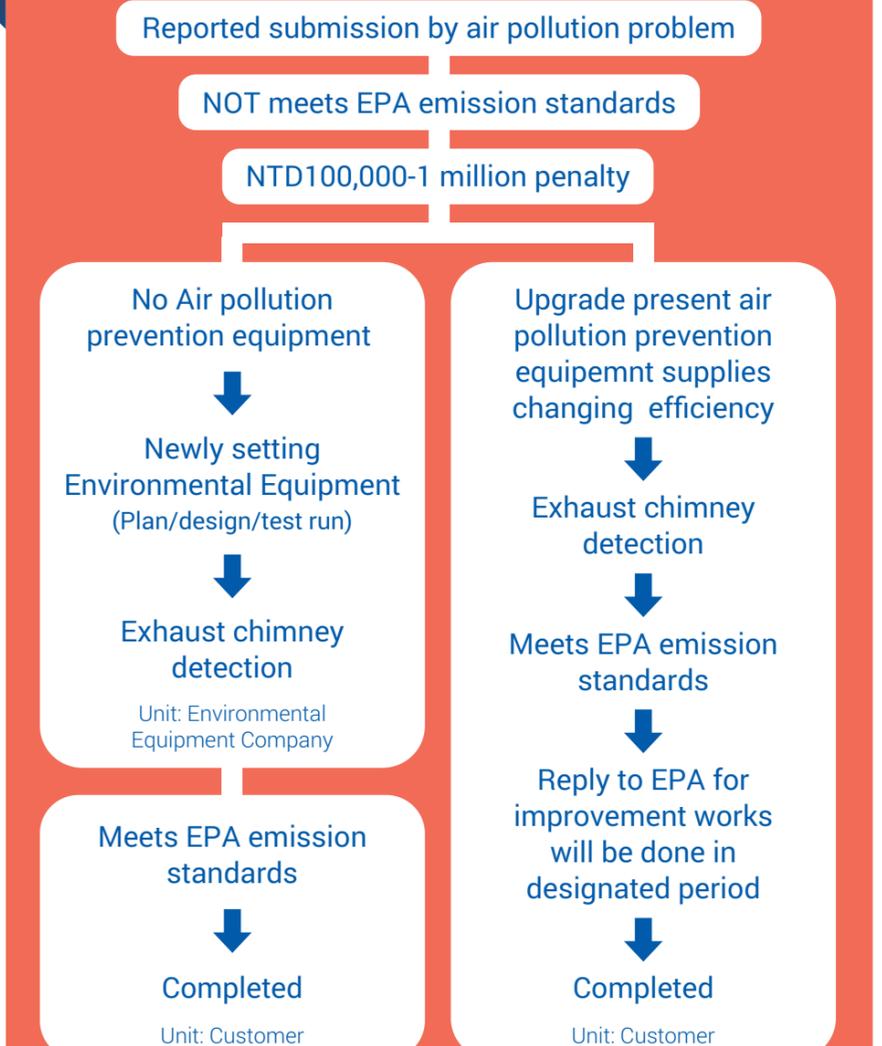
Situation 1 The process of permit application for Fixed pollution source



Situation 2 The process of solving air pollution



Situation 3 Placate neighborhoods by air pollution issue



GUARD OUR HOME

Cherish Taiwan together, Sanrey is with you.

