

ACTIVE CARBON REACTOR FACILITY

1. Structure and Principle

This system employs the absorption property of active carbon., In which, emission-carrying organic gas is inducted into the charcoal filter layer for capturing before releases to the atmosphere. The charcoal filter mesh is arranged in layers to expand surface contact with air. Powder mesh can be added for various emission property for preliminary screening to deter clogging of the charcoal filter. Recovery solvent or other adhering matters can be added for chemical absorption.

2. Purpose

- (1) Cleaning of electronic parts, photoelectric instruments.
- (2) Tire rework, rubber industry, fiberglass, dye, paint manufacturing.
- (3) Plastic, printing, adhesive, pesticide, organic solvent manufacturing.

3. Features

- (1) Pull-out type filter for easy installation and replacement.
- (2) For both indoor and outdoor installation.
- (3) Can be incorporated with other pollution prevention equipments.
- (4) Can be customized in sub-steel sheet, galvanized sheet, stainless steel sheet, etc.

漢揚環保機械股份有限公司

HAN HWAN POLLUTION CONTROL MACHENICS CO., LTD.

台中市神岡區中山路 360 巷 45 號

No.45, Lane 360, Chung Shan Rd., Shengang District, Taichung City, Taiwan

TEL : +886-4-2561-3885 FAX : +886-4-2561-1440 E-mail : hanhwan@ms64.hinet.net

CATALYST CONVERSION FACILITY

1. Structure and Principle

The facility utilizes the special property of catalysts in disintegrating hazardous emission for complete oxidation or conversion of exhaust gases into harmless gases or water at low temperature.

2. Purpose

Various odor-producing sources including paint industry, ink manufacturing, rubber and synthetic resin manufacturing, food processing, printing and chemical industries.

3. Features

- (1) High treatment efficiency, capable of complete combustion of pollutants.
- (2) Low operating temperature for great fuel saving.
- (3) Forestall second pollution through high-temperature combustion such as NO_x, SO_x.
- (4) Heat from gas treatment may be recycled.
- (5) Long catalyst lifespan; can be regenerated for reuse.

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台中市豐原區保康路 151 號 No.151, Baokang Rd., Fongyuan Dist., Taichung City, Taiwan

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E-mail : hanhwan@ms64.hinet.net <http://www.hanhwan.com.tw/>

EXHAUST GAS COMBUSTION TREATMENT EQUIPMENT

1. Structure and Principle

The main structure includes a series of processing equipment such as primary and secondary furnace, cooling system, acid removal tower, baghouse dust collector and blowdown stack with induced draft fans, etc., utilizing high temperature combustion to effectively treat volatile organic gases, also, use back-end processors such as packed tower, baghouse dust collector and activated carbon injection system to process SO_x, NO_x and dioxin and other pollutants. There is an operating condition linkage control system for ensuring operation safety and processing efficiency, and a real-time monitoring system for tracking the status of equipments.

2. Purpose

These equipments are intended to used in waste treatment plants, in chemical process with volatile organic solvent present and chemical process that produce high density volatile organic gases.

3. Feature

- (1) Highly efficient in processing volatile organic gases.
- (2) A set of integrated processing system, easy to planning, operating and monitoring.
- (3) For the constraints of plant site's terrain and ground features, we have developed a modular design system, to deal with the problem of demolition and relocation of existing plants and equipment during the installation of machines.
- (4) The operating condition can be adjusted in response to the manufacturing process change in the future.

4. Representative Performance

- (1) COSMOS ENVIRONMENT ENGINEERING CO., LTD.
2013.03
- (2) KING SHINE EE TECHNOLOGY ENTERPRISE CO.,LTD.
2011.04
- (3) JIUNG YUAN CO., LTD.
2019.05

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VENTILATION AND EXHAUST DUCT SYSTEM

1. Main structures and Working principle

Design the lure with constant velocity and constant pressure principle, and base on the condition of pollutant source, apply air hood to collect pollutant, and connect each vent with branch-type air duct, each vent has damper to adjust air volume, and use draft fan induce air to the lure.

2. Purpose

Used for workplaces of granular material grinding, handling, conveying, mixing, and stirring, cement, lime, woodwork, and powder coating, etc. which need to collect diffuse pollutant in the production process.

3. Feature

- (1) Constant velocity design to reduce pressure loss and maintains collection efficiency at the distal of the lure.
- (2) Bag material is selected base on the environment of manufacture plant, to extend service life.
- (3) Customize designed gas hood and damper, to increase dust collecting efficiency.
- (4) Easy to install and maintain.

4. Representative Performance

- (1) APRO TECH CO.,LTD.
2020.11.
- (2) YEONG LONG
TECHNOLOGIES CO.,LTD.
2021.01.
- (3) HENGXIANG RIBBON CO.
2016.05.

5. Product Picture



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VOC PACKING SCRUBBER

1. Structure and Principle

Emission enters from the tank bottom while the recovery solvent flows down from tank top to effectively react with the emission in the filler tank. The top of the tank is devised with a demister and a recovery solvent nozzle; the center is the filler tank: recovery solvent flows from the top and passes through the filler layer to reach the circulation chute at the bottom for recycling.

2. Purpose

Worksites producing VOCs such as chroming and spray-painting.

3. Features

- (1) High absorbability for various hazardous gases.
- (2) Even gas and liquid distribution for effective exposure and reaction.

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WET SCRUBBER

1. Structure and Principle

Emission is inducted evenly into the reactor, and effectively interact with recovery solvent sprayed down from top in the filler layer, then passes through the gas and liquid separation system to eliminate moisture for releasing clean air.

2. Purpose

For treating industrial emission of petrochemical manufacturing, kiln-firing industry, electroplating, metal surface treatment, flue gas, boiler and furnace.

3. Features

- (1) High-efficiency flush scrubber of 99% elimination rate.
- (2) Large capacity, small system pressure loss.
- (3) Simple structure, low equipment cost: low breakdown rate, easy maintenance, low operating cost.
- (4) Light equipment weight, small equipment space for easy space planning.
- (5) Made with acid, alkaline resistant PP, PVC, FRP.

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ACTIVE CARBON REACTOR FACILITY

1. Structure and Principle

This system uses the surface forces of solids to adhere certain substances in fluids onto recovery solvents. Is the most commonly used absorption agent id active carbon.

2. Purpose

Mainly for treating organic gases

3. Features

- (1) Type of active carbon can be selected according to exhaust properties; for large treatment capacity, equipment for recycling, active carbon may be fitted.
- (2) The preliminary mesh and active-carbon mesh may be designed as pull-out type for easy installation and replacement.

4. Specifications and Functions

Size can be designed according to site requirement.

Material : stainless steel, carbon steel, galvanized sheet, PP, P. V.C, F.R.P.

5. Product Photo



銓風機械股份有限公司 CHUAN FENG MACHINERY CO.,LTD

台中市南屯區五權西路二段 1266 巷 11 號

No. 11, Lane 1266, Sec. 2, Wucyuan W. Rd., Nantun District, Taichung City, Taiwan

TEL : +886-4-2389-2832 FAX : +886-4-2389-0168

E-mail : cf002@ms49.hinet.net http : //www.chuanfeng.com.tw

AIR SUPPLY FACILITY

1. Structure and Principle

Fans are available in many types. However, the type, number, and arc of the blades dictate the air volume and pressure generation. It is important to select the materials and model that suits your needs.

2. Purpose

Collect dust, drain smoke, air supply and suction for high-temperature furnace, air conditioner and boiler, incinerator and public hazard prevention.

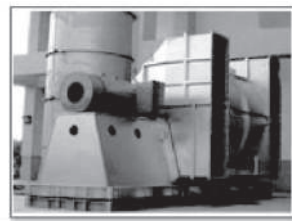
3. Features

- (1) Can be customized according to air volume and pressure requirement.
- (2) High efficiency, low noise.
- (3) Resilient structure for durability.

4. Specifications and Functions

- (1) Fan type: Stroke Fan, straight-blade, constant load, Turbo Fan, blade-cut, Axial Fan.
- (2) Material: a wide choice in stainless steel, carbon steel, FRP, PP, aluminum with rubber lining.
- (3) Taiwan Salt.

5. Product Photo



Double Inlet Airfoil Fans
Q: 5,000 m³/min. P: 300 mmAq.

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FILLER AIR-JET SCRUBBER

1. Structure and Principle

Exhaust enters from the scrubber bottom; water or chemical added solvent is sprayed via a special nozzle to complete the initial cleaning. The solid filler spread on top of the filler layer serves as the medium for gas and liquid contact; the mixture is then demisted by the demist system; air is then released to the atmosphere to achieve the purpose of exhaust treatment.

2. Purpose

For treating exhaust produced from various types of manufacturing

3. Features

- (1) High scrubbing, purifying efficiency, easy operation and maintenance.
- (2) Recovery solvent can be recycled to minimize wastewater.
- (3) Multi-layer filler design for flexibility.

4. Specifications and Functions

Can be customized according to exhaust properties or client requirement.

Material : Can be stainless steel, carbon steel, galvanized sheet, PP, PVC, and FRP.

5. Product Photo



Wet Scrubber

Treatment Air Volume : 2,000 m³/min.

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No. 11, Lane 1266, Sec. 2, Wucyuan W. Rd., Nantun District, Taichung City, Taiwan

TEL : +8864-2389-2832 FAX : +886-4-2389-0168

E-mail : cf002@ms49.hinet.net http : //www.chuanfeng.com.tw

PUBLIC POLLUTION PREVENTION EQUIPMENT

1. Structure and Principle

Facility development procedure:

Planning → design → manufacture →
install→test→service.

2. Purpose

Applicable for treatment of hazardous
gases of various industrial emissions
including casting, processing,
petrochemical, kiln firing,
electroplating, etc.

3. Features

Comprehensive service from
planning, design, manufacture,
installation, testing and trial run to
after-sales service. It is economical
and durable with excellent efficiency.

4. Product Photo



Cu, Al, Fe Foundry Waste Treatment
Facility

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AXIAL AIR-SUPPLY FAN

1. Structure and Principle

Our axial suction and supply fans are designed to cater to different environments and industries and developed under the requirement for space efficiency and large air capacity, which make them different from common centrifugal designs. Since the suction direction and release direction of an axial fans are aligned in straight-line to the motion, it is dubbed to the axial motion. This type of fans is driven by airflow on blades, thus making it possible to attain maximum air volume in minimum space.

(1) Machine body : Looking like a windpipe, the two ends are fitted with flange for connection to system pipelines. With its simple structural design, it takes up the least space for the same air output capability.

(2) VAF :

- A. Aluminum alloy airfoil of 60-80% capture rate
- B. Air volume can be adjusted as required; adjustable blade angle for power saving.

C. High efficiency, marginal pressure fluctuation on axle drive, overload prevention

PBF-A : Fan-shape blade is made of aluminium alloy or steel sheet; large air volume, high efficiency, linear piping available

- (3) Axle : Premium carbon steel is NC lathed and grounded with safety parameters fully considered in the design. It is assured against distortion or fatigue.
- (4) Bearing : Ball bearing is employed for regular models, and roller bearing for larger models. The housing is in cast steel, fitted with a convenient dust shield for easy inspection. Lubrication is by means of grease for convenient maintenance.

2. Purpose

Fire ventilation; air supply for textile, air-con, tunnel; textile factory wetting equipment, ventilation for large factories and buildings, dry oven exhaust equipment.

錦風股份有限公司 JEEN FONG CO., LTD.

桃園市龜山鄉區專一街 78 號 1 樓 1F, No.78, Chazhuan 1st St., Guishan Dist., Taoyuan City, Taiwan
TEL : +886-3-350-0183 FAX : +886-3-359-4727
E-mail : jeen.fong@msa.hinet.net <http://www.jeenfong.com.tw>

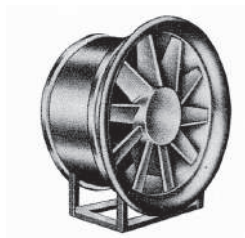
3. Features

Large air volume, low air pressure, small horsepower, simple structure, inexpensive, small space requirement, can be hanged or installed on ground, capable of straight-line connection

4. Specifications and Functions

- (1) Machine body is generally carbon steel, galvanised steel, stainless steel, FRP.
- (2) Horsepower 1 ~ 100 hp.
- (3) Air volume 50 ~ 2,000 cmm.
- (4) Static pressure 10 ~ 300 mmAq.

5. Product Photo



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MULTI-BLADE CENTRIFUGAL FAN & BOX FAN

1. Structure and Principle

This multi-airfoil centrifugal fan can be tailored to suit various space and capacity requirements. Available models include mono-suction opening, dual-suction openings and box fan. Blades used for this multi-airfoil model are of front-arc design, and tens of blades may be fitted onto a wheel. This type of fan has features of low speed, low static pressure, and large air output that make it an essential model for air conditioner air supply.

- (1) Fan body: For smaller models, the side panels are polished or galvanized and pneumatically assembled with reinforcement and an inlet funnel, which is then welded together with the turbine. The wheel is installed from the outlet, followed by fitting of the flow-stopper on the roller-box, and then secured onto the two side panels.

For larger models, after the two side panels are completed, reinforcement is carried out; the support base is installed and, after adjusting all parts, the housing of the roller is assembled.

The assembly is welded all around inside of the fan to reinforce the overall structure and prevent moisture/water penetration from seams to cause rusting. For constricted space, the housing can be cut into top and bottom, and reassembled on site for installation and subsequent maintenance needs.

- (2) The blades are designed with front arc for optimal efficiency and low noise.
Smaller models: For 7"-18" diameter fans, the blade corners are formed by pulling, which is done by a machine for resilience and precision.
Larger models: For over 20" diameter fans, the blades are individually produced via pneumatic and by rivet or welding, which are secured on to the center plate and inlet ring for strength and optimal output function. The assembled wheel is installed onto the housing and secured to the main plate with a stable leveler to bolster solidity, adjust alignment and prevent distortion.

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(3) Calibration by an imported balancer is then carried out for completion.

(4) Axle : Premium carbon steel is NC lathed and grounded with safety parameters fully considered in the design. It is assured against distortion or fatigue.

Bearing : Ball bearing is employed for regular models, and roller bearing for larger models. The housing is in cast steel, fitted with a convenient dust shield for easy inspection. Lubrication is by means of grease for convenient maintenance.

2. Purpose

Air-conditioner/heater air supply, ventilation, basements, car parks, bathrooms and toilet ventilation and deodorisation, fire ventilation systems, kitchen ventilation, dryers, stores, transport terminals and stations, mines, tunnels.

3. Features

All blades are stamped molded, which are uniform in angle. Every wheel is calibrated by a precision balancer for stable operation and distinguished for features of low speed, low noise, low power consumption, low air pressure and large air volume. If required, a box fan may be fitted in the same unit. The housing is able to accommodate several dual-suction units to save space. The unit can also be hanged for convenient wiring.

4. Specifications and Functions

Models are available in mono-suction, dual-suction, and box fan.

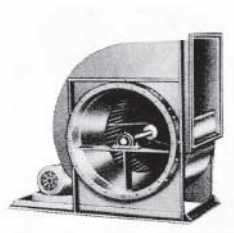
Material can be SS400#, galvanised steel, stainless steel, PVC, PP, FRP.

(1) Horsepower 1 ~ 400 hp.

(2) Air volume 50 ~ 9,000 cmm.

(3) Static pressure 10 ~ 100 mmAg.

5. Product Photo



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MULTI-BLADE CENTRIFUGAL FAN

1. Structure and Principle

Our Airfoil centrifugal fan is engineered based on the latest aeronomic development and application of Airfoil functions to expand application of fluid mechanics.

(1) Machine body : The appearance is same as multi-airfoil model, but since the suction inlet is designed as bell mouth, it enables ideal flow pattern, thus reduces turbulence noise at the inlet greatly compared to other fans.

(2) Wheel : The design has sectioned AWF (airfoil wheel type), blades are welded onto the main and sub-plates, making the structure sturdier than other fans for good adaptation to high speed rotation.

(3) Axle : Premium carbon steel is NC lathed and grounded with safety parameters fully considered in the design. It is assured against distortion or fatigue. Axle direction and bolt cap connecting to the wheel husk are specially designed: wheel assembly does not require knocking about, and removal does not requires pull out of the wheel; axle direction linked to the belt is a dual-cone sleeve for easy dismount of belt for convenient maintenance.

(4) Bearing : Ball bearing is employed for regular models, and roller bearing for larger models. The housing is in cast steel, fitted with a convenient dust shield for easy inspection. Lubrication is by means of grease for convenient maintenance.

2. Purpose

Prevailingly applied in forced air supply; gas conveyance system; semiconductor, photoelectric, traditional manufacturing industries; particle conveyance, environmental protection equipment.

3. Features

Extant load-limited fans are improved into an upgraded model of extant load-limited fan. AFO-S, AFO-D achieve higher efficiency and lower noise

- (1) As the blades are designed for minimum fluid dynamic loss, it yields limited load with high efficiency and low noise.
- (2) From the bell-mouth inlet through the wheel to the casing, the streamline design is ideal which ensues 10%dB less in noise than other models, especially effective for eliminating bothersome low-frequency noise.

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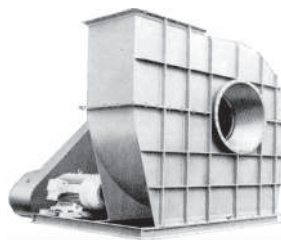
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- (3) As the blade structure is more solid than others, the static application range is wider.

4. Specifications and Functions

- (1) Comprehensive service from planning → design → manufacture → test → install → acceptance inspection according to client requirement.
- (2) Available in mono-, dual-suction and box assemblies according to actual needs.
- (3) A wide choice of materials - steel, galvanised steel, stainless steel, PVC, PP sheets, FRP.
- (4) Horsepower 1 ~ 1,500 hp.
- (5) Air volume 50 ~ 100,000 cmm.
- (6) Static pressure 50 ~ 1,000 mmAq.

5. Product Photo



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RADIAL CENTRIFUGAL FAN

1. Structure and Principle

The Radial centrifugal fan is developed to address the needs of individual industry. This model and other fans developed by the Company employ the function of pressurised floatation to achieve object moving through wind power in conjunction with the windpipe and other filter facilities.

- (1) Machine body : As the machine body is customized to accommodate the passage of voluminous powders and particles, the body of the machine is generally made of wear-resistant metals such as carbon steel, stainless steel, and galvanized steel sheets. For prolonged operation, the fan is structured with greater solidity than other models.
- (2) Wheel : The wheel is made by cold stamping and welded onto the main plate and sub-plate; the assembled blades radiate outward. For papermaking, the fan may be fitted with a cutter on top of blades and at inlet for breaking up pulp and fast transport.

- (3) Axle : Premium carbon steel is NC lathed and grounded with safety parameters fully considered in the design. It is assured against distortion or fatigue.
- (4) Bearing : Ball bearing is employed for regular models, and roller bearing for larger models. The housing is in cast steel, fitted with a convenient dust shield for easy inspection. Lubrication is by means of grease for convenient maintenance.

2. Purpose

PCB suction and filtration, grinding/polishing, textile and fibre manufacturing, carpentry, pulp and powder conveyance, general boilers' powerful ventilation, reactor exhaust

3. Features

The equipment employs high negative pressure; the air supply and suction systems are capable of conveying large air volume and high pressure. The wheel has greater resilience against wear and withstands solid particles. However, since the fluid dynamics has to be compromised, the model is less efficient due to its sharper horsepower curve; the factor should be taken into account when selecting models.

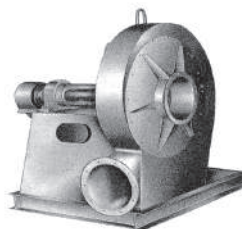
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4. Specifications and Functions

- (1) Comprehensive service from planning → design → manufacture → test → install → acceptance inspection according to client requirement.
- (2) Most models are designed with mono-suction.
- (3) A choice of materials - steel, galvanised steel, stainless steel, PVC, PP sheets.
- (4) Horsepower 1 ~ 1,000 hp.
- (5) Air volume 50 ~ 3,000 cmm.
- (6) Static pressure 50 ~ 1,500 mmAq.

5. Product Photo



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ROOFTOP AXIAL VENTILATOR, CENTRIFUGAL VENTILATOR & NON- POWER VENTILATOR

1. Structure and Principle

In an age of progressive technology and industrialization, traditional crafts handed down by our ancestors appear insignificant. Old buildings are generally confining in space, and hence have few windows for airflow; people have been contented with such little contact with the nature up to the 20th century. Nonetheless acceleration in technology in recent decades has gradually alienated people; taller and larger buildings continue to spring up, which inevitably ensues new needs. Thus for buildings forbidding installation of air conditioning and its piping, rooftop ventilator is invented, which is the only means of ventilation at present that does not take up living space, nor requires piping, yet ventilating the entire building with the greatest airflow at the most reasonable price.

- (1) Machine body : As it is for installation on rooftop, both axial and centrifugal models are one-piece molded of FRP for the material's lightweight and anticorrosive properties. For mono-unit models of larger capacity requirement, SS400, galvanised steel or stainless steel can be considered. Non-powered ventilator models are available in aluminium alloy, galvanised steel and stainless steel. The non-powered turbine design is available in aluminium alloy, galvanised steel, stainless steel and FRP.
- (2) Wheel : All wheels include axial, centrifugal and turbine ventilators come with blades that are pneumatically formed, riveted, tuned and balanced. Material used is consistent with the body of the machine for uniformity.

錦風股份有限公司 JEEN FONG CO., LTD.

桃園市龜山鄉區專一街 78 號 1 樓 1F, No.78, Chazhuan 1st St., Guishan Dist., Taoyuan City, Taiwan
TEL : +886-3-350-0183 FAX : +886-3-359-4727
E-mail : jeen.fong@msa.hinet.net <http://www.jeenfong.com.tw>

(3) Axle : As rooftop ventilators are installed on the roof, about 80% are designed as motor-driven units to minimize maintenance requirement.

(4) Bearing : Motor-driven for maximum stability, requiring nearly no maintenance.

2. Purpose

For ventilation, deodorization, dehumidification, filtering of factories, hospitals, stadiums, auditoriums, theatres, labs, office/convention buildings and large architectural structures

3. Features

Aesthetic appearance, weatherproof, no piping, smooth exhaust, not occupying useful space, minimum horsepower for maximum airflow, nearly no maintenance motor-driven design

4. Specifications and Functions

Available in axial, centrifugal, non-powered, turbine non-powered. Materials can be aluminium alloy, galvanised steel, stainless steel, FRP, nylon fibre.

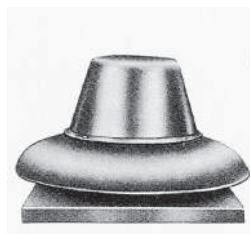
(1) Horsepower : 1/2 ~ 30 hp.

(2) Air volume : 50 ~ 1,000 cmm.

(3) Static pressure : 3 ~ 25 mmAq.

(4) Non-powered ventilator.

5. Product Photo



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TURBO CENTRIFUGAL FAN

1. Structure and Principle

Turbo centrifugal fan is also known as wheel fan; its moving direction is the opposite of multi-airfoil fans. As multi-airfoil model has many blades on the same wheel, the blades are slim and long; in operation they lean forward. Whereas, the Turbo model is to satisfy high air volume and pressure requirement, hence the blade structure leans backward in motion. For excellence of structure and performance Turbo tops all other fans and is one of the mainstream model employed in industries.

(1) Machine body : Housing is designed for heavy-duty usages, which is made of high strength steel. The base supporting both the body and the motor is a steel chute assembled for structural reliability and long operating life. To accommodate installation site, the housing can be cut into top and bottom and the wheel can be removed for installation without moving the inlet/outlet pipes for convenient maintenance. The beveled-in parts of the housing are welded on the inside against infiltration to prevent rusting. After assembly, the unit is 100% buffed and ground and then painted with several coats of paints for protection.

- (2) Wheel : Backward leaning in operation: The sheet material and blade thickness have been computed for strength and analyzed for flow precision. Welded wheel, through stress neutralization and lathing, is computer calibrated for high-speed rotation, offering benefits like stable operation, marginal vibration, high efficiency and low noise.
- (3) Axle : Premium carbon steel is NC lathed and grounded, and as safety parameters have been fully considered in design, it is assured against distortion or fatigue. Axle direction and bolt cap connecting to the wheel husk are especially designed: wheel assembly does not require knocking about and removal does not require pull out of the wheel; axle direction linked to the belt is a dual-cone sleeve for easy dismount of belt for convenient maintenance.
- (4) Bearing : Ball bearing is employed for regular models, and roller bearing for larger models. The housing is in cast steel, fitted with a convenient dust shield for easy inspection. Lubrication is by means of grease for convenient maintenance.

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E-mail : jeen.fong@msa.hinet.net <http://www.jeenfong.com.tw>

2. Features

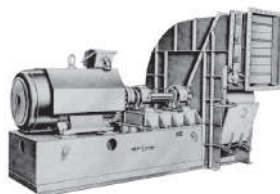
The computer-aided design of backward leaning blades have such benefits as optimal efficiency, stable operation, low noise, making it a better choice for conveying powder-carrying emission than the airfoil-type. Each fan is tested according to CNS, and documented with function curves, reference.

3. Specifications and Functions

Available in single or multiple sections for meeting function requirement

- (1) Mono-section material can be
SS400, galvanised steel,
stainless steel, PVC, PP, FRP
 - A. Horsepower 1 hp ~ 2,000 hp.
 - B. Air volume 50 ~ 3,500 cmm.
 - C. Static pressure 50 ~ 1,500 mmAq.
- (2) 2 to multi-section spec
For configuration of two or more sections, the machine body is available in carbon steel, stainless steel, cast iron and aluminium, and the transmission is available in both belt and motor driven.
 - A. Horsepower : 1 ~ 400 hp.
 - B. Air volume : 10 ~ 220 cmm.
 - C. Static pressure 800 ~ 8,000 mmAq.

4. Product Photo



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E-mail : jeen.fong@msa.hinet.net <http://www.jeenfong.com.tw>

HEAT PUMP HEATING SYSTEM

1. Structure and Principle

- (1) During the operation of a heat pump, liquid refrigerant at a low temperature and pressure flows through the evaporator and absorbs heat from the atmosphere, evaporating into a gas. Its pressure and temperature is then increased further by means of a compressor. The hot refrigerant flows into a condenser and releases heat to water, heating the water while itself condensing back into a liquid. The liquid refrigerant undergoes a reduction in pressure and temperature via a thermal expansion valve and the cycle begins once more.
- (2) Heat pump systems consume three to four times less energy than a traditional electric heater for the same amount of heat produced.
- (3) There is no risk of electrical leakage (as with electrical heaters), or carbon monoxide poisoning (as with gas heaters).

2. Purpose

Heat pump systems are versatile, finding use in both residential and commercial applications. They can also serve as auxiliary air coolers..

3. Features

- (1) Multi-unit design: running an array of small units in parallel can provide a more stable source of heating.
- (2) Process integration: heat pumps can be incorporated into existing projects to magnify energy savings.
- (3) Heat pump energy system : energy-saving, efficient, and environmentally friendly.
- (4) Intelligent control system : user-friendly design with an easy-to-use interface.
- (5) Anti-corrosion treatment : customizable heat exchanger designs can handle demanding environments (such as hot springs and coastal areas).

二方企業股份有限公司 DILEMMA CO., LTD.

桃園市八德區廣福路 879 巷 192 弄 8 號

No. 8, Aly. 192, Ln. 879, Guangfu Rd., Bade Dist., Taoyuan City, Taiwan

TEL : +886-3-375-6081 FAX : +886-3-301-1763 E-mail : w_j_95@hotmail.com <http://dilemma.com.tw>

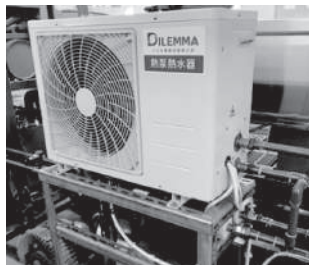
3. Specifications and Functions

Heating capacity: 3.5kW
Power consumption: 0.8kW
COP: 4.3
Refrigerant: R32
Size: L30xW79xH58cm
Weight: 35.5kg
Water supply: 75L/hr
Max temperature: 60°C n

4. Representative performance

TAI PERNG CHEMICAL
INDUSTRY CO., LTD.201908

5. Product Photo



二方企業股份有限公司 DILEMMA CO., LTD.

桃園市八德區廣福路 879 巷 192 弄 8 號

No. 8, Aly. 192, Ln. 879, Guangfu Rd., Bade Dist., Taoyuan City, Taiwan

TEL : +886-3-375-6081 FAX : +886-3-301-1763E-mail : w_j_95@hotmail.com <http://dilemma.com.tw>

HEAT PUMP FOOD DRYER (INTEGRATED MODEL)

1. Structure and Principle

- (1) The dryer consists of a drying unit and a drying chamber. The racks/containers/etc. within can be customized based on product characteristics, drying rate, drying method, etc.
- (2) It operates based on the energy amplification of a heat pump, consuming three to four times less energy than a traditional electric heater for the same amount of heat produced. Dry, low temperature air (30~70°C) is cycled through the product, absorbing its moisture. The moist air gets cooled in the condenser, releasing water as condensate, and is reheated for the next cycle. No exhaust is released into the environment, allowing the products to retain their original flavor and nutrients after dehydration.eaters).

2. Purpose

Heat pump systems are versatile, finding use in both residential and commercial applications. They can also serve as auxiliary air coolers..

3. Features

- (1) Multi-unit design: running an array of small units in parallel can provide a more stable source of heating.
- (2) Process integration: heat pumps can be incorporated into existing projects to magnify energy savings.
- (3) Heat pump energy system : energy-saving, efficient, and environmentally friendly.
- (4) Intelligent control system : user-friendly design with an easy-to-use interface.
- (5) Anti-corrosion treatment : customizable heat exchanger designs can handle demanding environments (such as hot springs and coastal areas).

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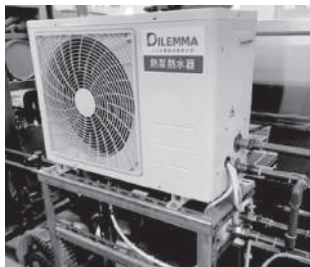
4. Specifications and Functions

- (1) Heating capacity: 3.5 kw
- (2) Power consumption: 0.8 kw
- (3) COP: 4.3
- (4) Refrigerant: R32
- (5) Size: L30 x W79 x H58 cm
- (6) Weight: 35.5 kg
- (7) Water supply: 75 L/hr
- (8) Max temperature: 60°C

5. Representative performance

TAI PERNG CHEMICAL
INDUSTRY CO., LTD.201908

6. Product Photo



二方企業股份有限公司 DILEMMA CO., LTD.

桃園市八德區廣福路 879 巷 192 弄 8 號

No. 8, Aly. 192, Ln. 879, Guangfu Rd., Bade Dist., Taoyuan City, Taiwan

TEL : +886-3-375-6081 FAX : +886-3-301-1763E-mail : w_j_95@hotmail.com <http://dilemma.com.tw>

DUCTS AND DAMPERS FOR CHEMICALS EXHAUST SYSTEM

1. Structure and Principle

- (1) Semiconductor manufacturing process involves many solvents, acids, and organic solutions; hence, chemical resistant exhaust systems play a critical role.
- (2) A-Tech ductwork uses stainless steel as the base material. Its interior is coated with ECTFE, which has excellent chemical and electric resistance and is fire retardant. A-Tech ductwork is widely used for chemical exhaust systems for semiconductor manufacturing industries.

2. Purpose

Corrosive and toxic exhaust applications.

3. Features

- (1) Interior of the duct and damper is coated with ECTFE coating, which is highly resistant to chemical, electricity and fire.
- (2) The base material used is SUS 316, which is rust resistance.
- (3) Pre-fabricated in factory and assembled on site for faster installation.
- (4) FM Approved.

4. Specifications and Functions

- (1) Duct (Round and Rectangular) :
 - A. Material : External SUS316L , Interior ECTFE coating.
 - B. Property : Chemical, Corrosive, Electric and resistance.
 - C. Dimension :
 - a. Round duct : φ 4" ~ φ 100" .
 - b. Rectangular : 4" \times 4" ~ 100" \times 100" .upon customer's request.
- (2) Damper (Round and Rectangular) :
 - A. Material : External SUS316L , Interior ECTFE coating.
 - B. Property : Chemical, Corrosive, Electric and resistance.
 - C. Dimension :
 - a. Round Damper : φ 4" ~ φ 50"
 - b. Rectangular Damper : Upon customer's request.

千附實業股份有限公司 CHEN FULL INTERNATIONAL CO., LTD

桃園市蘆竹區南崁路一段 99 號 9 樓 9F, No. 99, Sec. 1, Nan-Kan Rd, Lu-Chu Hsiang, Taoyuan, Taiwan
TEL : +886-3-322-0022 FAX : +886-3-322-0055
E-mail : gmr@chenfull.com.tw http : // www.chenfull.com.tw

SPRAY SYSTEM EQUIPMENTS for ODOR CONTROL

1. Structure and Principle

- (1) ECOLO AirSolution is a complex mixture of essential oils, volatile odoriferous substances derived from plants.
- (2) Keep four kinds safety document :
 - A. Primary skin irritation study.
 - B. Primary eye irritation evaluation.
 - C. Rat oral 1d50 determination.
 - D. Acute inhalation study.
- (3) Keep for various AirSlution Material Safety Data Sheet
- (4) Types of Odors Treated with various Air Solution to primary odor control action by Neutralization.

2. Features

- (1) Convenient 、 Easy Installation, Operation to spray according to presetting cycle time & spray time.
- (2) 1 ~ 6 Spray Units, Operation to spray according to presetting cycle time & spray time.
- (3) 3 ~ 50 Nozzles Operation to spray according to presetting cycle time & spray time.
- (4) 60 ~ 150 Nozzles, Operation to spray according to presetting cycle time & spray time.

Product	Types of Odors Treated	Application Areas
Air Solution#123 Misting Spray AirSolution	Airborne H ₂ S 、 NH ₃ 、 Mercaptan Odors	Landfill Sites & Transfer Stations Wastewater Facilities
BioStreme 111F Foaming Surfaces Biochemical	H ₂ S 、 Mercaptan 、 Other Odors	Landfill Sites 、 Transfer Stations 、 Compost Operations 、 Recycling Centers
BioStreme 222 Saturated Wastewater Solution	Septic Wastewater Odors Digested Sludge Odors Marcaptan Odors	Septic Tank Wastewater 、 Treatment Systems Holding 、 Tanks 、 Ponds 、 Lagoons 、 Dairy Waste Anaerobic Digesters
Predator H ₂ S H ₂ S Scrubbers Solution	H ₂ S 、 Mercaptan Odors	Scrubbers Tower

光騰工業科技股份有限公司

EASTON ENGINEERING INTERNATIONAL CORP.

新北市三重區重新路五段 609 巷 14 號 7 樓之 9

7F-9, No. 14, Lane 609, Sec. 5, Chung Hsin Rd., San Chung District, New Taipei City, Taiwan

TEL : +886-2-2999-5763 FAX : +886-2-2999-5764

E-mail : easton99@ms21.hinet.net http:// www.easton-eng.com.tw

U-Tec AIR PURIFIER (INCLUDING PHOTOCATALYTIC OXIDATION)

1. Structure and Principle

“Photo-Catalytic Oxidation” destroys Toxic chemicals and eliminates household odors and kill disease germs on contact. Activated carbon adsorbs toxic gases, and HEPA filter remove allergens. Five-layer filters of U-Tec AIR Purifier, offer the totally clean air.

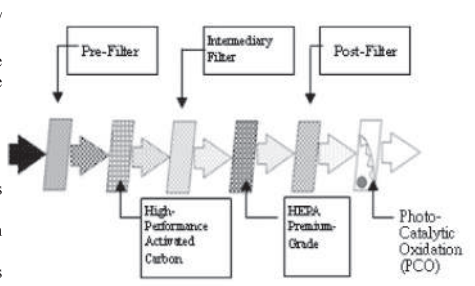
Factory exhausts (As/ C₆H₆/ Cl₂/ HCHO/
HF/ Hg/ H₂S/ Mn/ O₃/ SiF₄)

Chemical, pharmaceutical smells/volatile
organic compounds (VOC)/automobile
exhaust (SO_x/NO_x/ CO/ HC/ Pb)

Germ contamination (hazardous
micro-organisms, dust, fungi, bacilli,
spores, parasites on animals)

General pollutants
(particulates/pollens/carbon
powders/cigarette smoke/odor/human
body odor)

Infection from patients' saliva (virus
infections including GI bacteria, asthma,
TB)



2. Purpose

As general air quality deteriorates, most offices, hospitals and families are using air purifier to keep air fresh.

The pollutants as particles, animal furs, dead skin cells, spores, dusts, pollens, viruses, cigarette smoke and general corrosive gases, odors, and toxic gases that cause allergy, asthma, lung cancer, skin cancer, leukemia, respiratory diseases, Parkinson's and nausea.

3. Features

Simultaneously execute four major functions: eliminate particulates, deodorize, neutralize toxic gases, and kill bacteria.

光騰工業科技股份有限公司

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7F-9, No. 14, Lane 609, Sec. 5, Chung Hsin Rd., San Chung District, New Taipei City, Taiwan

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E-mail : easton99@ms21.hinet.net http:// www.easton-eng.com.tw

4. Specifications and Functions

Model	ETA-560 For 100-200m ²
Dimensions	680 ^L ×400 ^W ×1410 ^H (mm) With brake wheel
Flow Capacity	750 cfm max
Blower Motor	110V/ 1 Ø / 60Hz, 1/3Hp
Gross Weight	≒ 150 Kgs

High-Efficiency Filter	Model Items	H	HP	HB	C/I	C/IP	C/IB
	Profiteer	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit
	Multi-Mix Media	1 set	1 set	1 set	2 sets	2 sets	2 sets
	HI-TECH Filter or Intermediate Filter (85%)	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit
	HEPA Filter	1 unit	1 unit	1 unit			
	Post Filter	1 unit	1 unit	1 unit	1 unit	1 unit	1 unit
	UV	1 unit					
	BI-Polar			1 unit			1 unit
	PCO		1 unit			1 unit	

5. Product Photo



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7F-9, No. 14, Lane 609, Sec. 5, Chung Hsin Rd., San Chung District, New Taipei City, Taiwan

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PHOTOCATALYST

1. Structure and Principle

Certain materials can absorb light at specific wavelength to stimulate molecules into excited state and show active properties, able to react with other materials; these materials are called the “photocatalysts”.

For pollution protection application, when light is illuminating to titanium dioxide surface, it will generate super strong decomposing capability and gradually disassemble dirt sticking on its surface into CO₂ & water. This theorem is applied to the illumination lamp cover of freeway tunnel that can long-term keep lamp cover clean with good luminance efficiency.

2. Purpose

In brief, the photocatalyst can boost chemical reaction after exposed to light yet no change occurs to itself. For example, volatile organic materials contained in soil, underground water or air can be decomposed by way of photocatalytic effect and turn harmful material to harmless one.

3. Feature

On the photocatalyst surface, since the inner electronics are stimulated after absorbing UV, it will form active oxygen material including the superoxide and

hydro atomic group; they will disassemble and eliminate the organic material touching the photocatalyst surface (causing moldy or odor). Thus, use this function it can disinfect, deodor, prevent dirt and remove environmental pollutants. Since the free radical of hydrogen has powerful decomposition capability and hydrophile character, therefore, photocatalyst has the disinfecting, deodor and dirtproof capability.

4. Specifications and Functions

The photocatalyst is a skill of “catalyst using photo energy to make catalytic reaction”. Before using it, we will coat or spray the catalyst on article surface forming a film; then, using photo energy to activate and remove dirt, disinfect, inhibit bacteria or clean up the reacted surface by oxidation or deoxidization actions. 40W × 12UV tubes (2.2 A power consumption), stainless steel outer casing and 220V power voltage.

5. Product Photo



冠誠環境科技工程股份有限公司

GUAN CHENG ENVIRO TECH PROTECTION CO., LTD.

台南市永康區中正二街 567 號 No.567, Zhongzheng 2nd St., Yung-Kang District, Tainan City, Taiwan

TEL : +886-6-243-0986 FAX : +886-6-243-0711 E-mail : gc017@gcep.com.tw <http://www.gcep.com.tw>

CARTRIDGE FILTER

1. Structure and Principles

This system expands the dimension by folding the filter materials into star shapes to accomplish maximum filtering with minimum dimension. The two ends of the filter are molded with Poly Urethane into a tube to form a self-supportive unit. Users can also chose to install specially designed insulation chips to enable the tubes to sustain high-pressure dust gas while maintaining good ventilation without distortion. Various filter materials are available for various usages; they include Polyamide, Polyester, Polypropylene, Nomex, Teflon, Glass, Cellulose, and more.

The filter materials are strong and washable and are capable of filtering dusts from rough $30\mu\text{ m}$ to as fine as $0.1\mu\text{ m}$. They also have high heat-tolerance, sustaining heat from 80°C to 120°C . Special anti-static filters are also available.

2. Purpose

- (1) Dust collection and recycling of industrial dust: ex: asbestos, fertilizer, animal feed, PVC, rubber grinding, power conveying, powdering, mixing, sand spay, ceramic production, tile production, spray paint, leather, coloring, paper, cement, coal, plywood, wood products, and chemical materials.
- (2) Powder conveying: gas conveying, end-collection for Roots blowers
- (3) Material storage air vent
- (4) Steam turbine power generator, air inlet for air-compressor.
- (5) Dustless air-vent system: japanning paint room, spray paint room, offices, and family air-ventilation.

3. Features

- (1) Easy to maintain.
- (2) Good air permeability.
- (3) Wide-range of choices. Special chemical-resistant and anti-corrosion materials are also available.

封固企業股份有限公司 FENG GUH ENTERPRISE CO., LTD

高雄市前鎮區新街路 286-9 號 4 樓之 1 4F-1, No. 286-9, Hsin-Ya Rd., Kaohsiung, Taiwan
TEL : +886-7-822-2918 FAX : +886-7-812-3938
E-mail : fengguh@ms8.hinet.net [http : //www.feng-guh.com.tw](http://www.feng-guh.com.tw)

- (4) Filter tubes can be back-washed by using the pressure-differentials to extend its usage life.
- (5) Comes with round and square disk designs as well as upward pull-out, downward pull-out, and track types to suit various dust gathering machines.
- (6) Small with minimum filtering dimension.
- (7) Tough and durable.

4. Product photo



封固企業股份有限公司 FENG GUH ENTERPRISE CO., LTD

高雄市前鎮區新衙路 286-9 號 4 樓之 1 4F-1, No. 286-9, Hsin-Ya Rd., Kaohsiung, Taiwan

TEL : +886-7-822-2918 FAX : +886-7-812-3938

E-mail : fengguh@ms8.hinet.net [http : //www.feng-guh.com.tw](http://www.feng-guh.com.tw)

ANTI-AIR POLLUTION EQUIPMENT

1. Structure and Principle

The main principle is using catalyst to reduce the activation energy and reduce the temperature of reaction to achieve the purposes of saving energy. The main structure includes heaters, heat exchangers, blowers, and catalyst, control units.

2. Purpose

- (1) Reduce the emission of VOCs.
- (2) Reduce odors.

3. Features

- (1) Available design of equipment complied with demands and locations.
- (2) Size, weight and pressure drop, converter efficiency, temperature limit, conversance of operation and maintenance.
- (3) Low cost of investment and operation.

4. Specifications and Function

- (1) Multiple-application with industries.
- (2) Range of air flow: L/min to m³/min.
- (3) The design of catalyst incineration systems and manufacturing of catalyst were made in Taiwan.

5. Representative Performance

- (1) NAN YA PLATICS.
- (2) China Man-Made Fiber Corporation.
- (3) TAYA Group.
- (4) Walsin Lihwa Corporation.
- (5) CPC Corporation, Taiwan.
- (6) Chang Chun Group.

6. Awards (Certified) Items

- (1) Excellent domestic environmental equipment certification.
- (2) Excellent environmental engine award.

7. Product Photo



凱德利斯特國際有限公司

CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

CATALYST FOR VEHICLES AND MOTORCYCLES

1. Structure and Principle

Coating precious metals on the surface of various carriers. Catalyst helped harmful gas converter into harmless gas by chemical reaction.

2. Purpose

Reduce the emission of CO, HC and NO_x

3. Features

- (1) High conversion of VOC reduction.
- (2) Extensive applied industries.
- (3) Customize catalyst with demands in real situation.
- (4) OEM.

7. Product Photo



4. Specifications and Function

- (1) Ceramic catalyst
- (2) Metal catalyst
- (3) Great variety of products online, please contact us.

5. Representative Performance

- (1) ADLYMOTOR INDUSTRIAL CO., LTD
- (2) Standard Motor Company
- (3) CPI Motor CO., LTD.

6. Award (Certification) Project

National quality golden award
Excellent domestic environmental equipment certification.



凱德利斯特國際有限公司

CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔1號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

DPF REGENERATION

1. Structure and Principle

Honeycomb ceramic structure consisted with filter walls which were formed with multiple, tiny, adjacent and parallel flues. Filter walls could capture particulate while exhaust flowed through.

2. Purpose

- (1) Inspect appearance: if DPF was broken, cracked or chapped. DPF cannot be regenerated.
- (2) Remove oil sludge and smudge.
- (3) Combust the soot particles.
- (4) Inspect DPF was not broken, cracked or chapped caused by heat treatment.
- (5) Collision avoidance package, rapid delivery.

3. Features

- (1) High conversion of VOC reduction
- (2) Regeneration online.

4. Specifications and Functions

All specification could be renewable.

5. Representative Performance

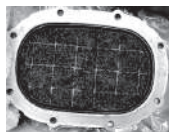
- (1) Chiauying Electric CO., Ltd
- (2) United Microelectronics Corporation
- (3) Chung-Hsin Electric & Machinery Mfg. Corp.
- (4) Automotive Research & Testing Center

6. Award (Certification) Project

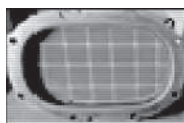
- (1) National quality golden award.
- (2) Excellent domestic environmental equipment certification.

7. Product Photo

Before regeneration



After regeneration



凱德利斯特國際有限公司

CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔1號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

ENVIRONMENTAL CATALYST(VOC, SCR)

1. Structure and Principle

The functions of catalyst were extensive and relative to our daily life. Catalyst could make harmful gas transformed into harmless gas rapidly.

2. Purpose

There were four kinds of main application:

- (1) Vehicle exhaust: catalyst converters.
- (2) De-NO_x (SCR).
- (3) Handle VOC and odors
- (4) Other : processing of toxic organic materials

3. Features

- (1) High conversion.
- (2) Various applications.
- (3) Customized.
- (4) OEM

4. Specifications and Functions

- (1) Honeycomb: 150*150*100mm.
- (2) Particle ceramic: \varnothing 3~6mm.

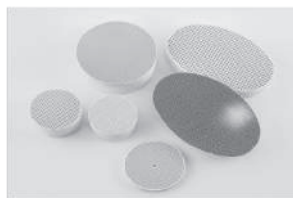
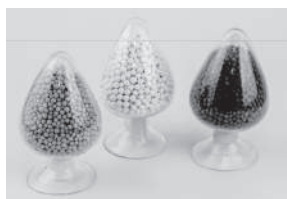
5. Representative Performance

- (1) Nan Ya Plastics.
- (2) China Man-Made Fiber Corporation.
- (3) TAYA Group.
- (4) Walsin Lihwa Corporation.
- (5) CPC Corporation, Taiwan.
- (6) Chang Chun Group.

6. Awards (Certified) Items

- (1) National quality golden award.
- (2) Excellent domestic environmental equipment certification.

7. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

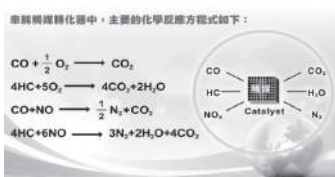
No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

EXHAUST HANDLING EQUIPMENT FOR REGULAR INSPECTION STATION

1. Structure and Principle

Coating precious metals (Pt, Pd,,Rh) on the surface of honeycomb carriers to purify the emission of engines with chemical reaction of precious metals. Catalyst helped harmful gas converter into harmless gas by chemical reaction



2. Purpose

While engines were testing, purify the emission and converter harmful gas (CO、HC、NO_x) into harmless gas(CO₂、H₂O、N₂).

3. Features

- (1) Customize catalyst.
- (2) OEM.
- (3) Reduce the emission.

4. Specifications and functions

- (1) Processing capacity : 100 ~ 300 L/min.
- (2) Power : 110v / 60HZ / 15A.
- (3) L 45cm x W 45cm x H 75cm.

5. Representative Performance

- (1) Da-zhuyin Station.
- (2) TaiYi Station.
- (3) Department of Labor, Taipei City Government.

6. Awards (Certified) Items

- (1) National quality golden award
- (2) Excellent domestic environmental equipment certification
- (3) The product was certified the award from IDB for environ-mental protection equipment application benchmark in 2018.

7. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

ODM & OEM FOR CATALYST

1. Structure and Principle

Match up catalyst design and client's demands to comply with environmental regulations of nations and clients' standards. We also provide OEM to shorten manufacturing periods, cut down clients' cost and reduce expenses.

2. Purpose

- (1) Industries using organic solvent.
- (2) Handle NO_x .
- (3) Improve odors and air pollution
- (4) Improve indoor air quality of fields.
- (5) Replace original anti air-pollution equipment.
- (6) Replace old, invalid and broken up catalyst.

Insist the concept of environmental protection. We continue to develop environmental technology and products. We also hope to play a more important role in pollution prevention.

3. Features

- (1) High conversion efficiency.
- (2) Application for many fields.
- (3) Customization.
- (4) OEM.

4. Specification and Functions

Design changes with demands, please contact with us.

5. Representative Performance

- (1) Automotive Research & Testing Center
- (2) Chiauying Electric CO., Ltd

6. Awards (Certified) Items

- (1) National quality golden award
- (2) Excellent domestic environmental equipment certification

7. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

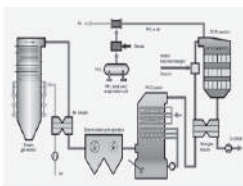
SCR, De-NO_x SYSTEM

1. Structure and Principle

- (1) De-NO_x technology.
- (2) Using NH₃ as reducing agent to selectively react with NO_x in the exhaust and convert NO_x into harmless N₂ and H₂O.
- (3) SCR has become the most mature and efficient method of De-NO_x in the world.
- (4) SCR has remarkable effect on controlling NO_x of boiler gas with high denitrification efficiency. SCR technology is mature and easy to operate. It can be used as one of main methods for controlling NO_x in the coal-fired power plants or fuel-fired boiler in the world.

2. Purpose

Reduce the pollution of NO_x.



3. Features

- (1) High conversion.
- (2) Low working temperature.
- (3) Big reacting area.

4. Specifications and functions

Honeycomb 150*150*100mm.

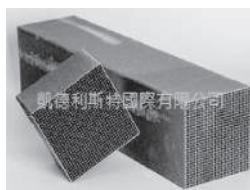
5. Representative Performance

- (1) Nan Ya PlasticS
- (2) China Petrochemical
- (3) Development Corporation
- (4) CPC Corporation, Taiwan
- (5) Chang Chun Group

6. Awards (Certified) Items

- (1) National quality golden award.
- (2) Excellent domestic environmental equipment certification.
- (3) Excellent environmental engine award.

7. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

VOCS EMISSION REDUTION SYSTEM

1. Structure and Principle

The main principle is using catalyst to reduce the activation energy and reduce the temperature of reaction to achieve the purposes of saving energy. The main structure includes heaters, heat exchangers, blowers, and catalyst, control units.

2. Purpose

- (1) Reduce the emission of VOCs.
- (2) Reduce odors.

3. Features

- (1) Low cost, high conversion efficiency.
- (2) Small size without construction.
- (3) Easy to operate and maintain.
- (4) Easy to move with demands.

4. Specifications and Function

- (1) Multiple-application with other anti-pollution equipment.

- (2) Range of air flow: L/min to m^3/min .
- (3) Available to design by demands.
- (4) Easy to operate and maintain.
- (5) The design and manufacturing of catalyst systems were made in Taiwan.

4. Representative Performance

- (1) Toyo Advanced Science Taiwan Co., Ltd.
- (2) Siliconware Precision Industries Co., Ltd.

5. Awards (Certified) Items

- (1) National quality golden award.
- (2) Excellent domestic environmental equipment certification.
- (3) Excellent environmental engine award.

6. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

ZERO AIR GENERATOR

1. Structure and Principle

The zero air generator transformed normal air in air compressors or steel cylinders into high purified zero air by principals of catalyst converter.

2. Purpose

Purify normal air into zero air to supply various instruments : THC, GC-MS, TG, GC, FPD, FID, air compressor.

3. Features

- (1) Independent development and manufacturing.
- (2) High conversion of zero air, HC < 0.1ppm (as methane).
- (3) Continuous operation to generate high purity zero air.
- (4) Economy and safety.
- (5) Customize with customer's demands.

4. Specifications and Functions

Model	AZ-3000	AZ-5000
Operating flow rate	1,000 ~ 3,000 ml/min	3,000 ~ 5,000 ml/min
Catalyst Temperature	350 - 450	350 - 450
Operating Pressure	1-5 kg/cm ²	1-5 kg/cm ²
Electrical requirement	110V / 220V	110V / 220V
Dimensions	19" Cabinet Server Rack	19" Cabinet Server Rack
Inlet and outlet	1/4"union	1/4"union

5. Representative Performance

- (1) Everligh chemical
- (2) Longong dafa envirmmental corp.
- (3) Measurment pioneer inc.

6. Awards (Certified) Items

- (1) National quality golden award.
- (2) Excellent domestic environmental equipment certification.

7. Product Photo



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CATALYST INTERNATIONAL CO., LTD

苗栗縣造橋鄉朝陽村六鄰中洲仔 1 號

No. 1, Neighbor 6, Chaoyang Village, Zaociao Township, Miaoli County Taiwan

TEL : +886-37-615-816 FAX : +886-37-615-502 E-mail : kjentech@ms17.hinet.net <https://tw-catalyst.com>

DIESEL ENGINE EXHAUST FILTER



1. Structure and Principle

This equipment is an innovative invention that is designed to improve the smoke and dust emitted by combustion diesel. Its structure includes a set of Heater + catalyst-type smoke filters + a set of control systems that enable a diesel generator with a fixed source of pollution from start-up. Its black smoke, within three minutes on the toxic and catalytic white smoke up to 90 ~ 99%, while the beginning of automatic regeneration, to achieve the operation in addition to smoke and smelly, automatic regeneration and reduce noise can be completed in operation.

2. Purpose

Any fixed source of diesel engine exhaust smoke improved.

3. Features

Unprecedented innovation inventions, patent No. I448614, is the only practical creation.

4. Specifications and Functions

In addition to black smoke, white smoke, toxic, PM 2.5 elimination rate of 90 to 99 %.

5. Award (Certification) Project

The product was certified the award from IDB for environmental protection equipment application benchmark in 2020.

6. Product Photo



喬英電機有限公司 CHIAUYING ELECTRIC CO., LTD

新北市三重區中興北街 198 號 No. 198, Zhongxing N St, Sanchong Dist., New Taipei City, Taiwan
TEL: +886-2-8511-0969 FAX: +886-2-8511-0970 E-mail: lkkok@lkkok.com.tw [http:// www.lkkok.com.tw](http://www.lkkok.com.tw)

SMART SMOKE MUFFLER

1. Structure and Principle

Innovation and invention of a group of whirlwind combustion chamber will be a small amount of combustion to reach the soaking, and then connected to the ceramic filter after the combination of ceramic filter to capture the diesel engine emissions of black smoke particles by the creation of direct fire regeneration so that the filter can be used continuously 2500 hours You can. This equipment has been tested and corrected for two years in the field.

2. Purpose

Any fixed or any moving diesel engine smoke and smelly.

3. Features

Unprecedented invention, practical and effective function, the only creative invention.

4. Specifications and Functions

Diesel engine to start the whole process of purification of black smoke, white smoke, toxic smell, sound and automatic regeneration, diesel engine operation without load or load can achieve the above functions.

5. Product Photo



喬英電機有限公司 CHIAUYING ELECTRIC CO., LTD

新北市三重區中興北街 198 號 No. 198, Zhongxing N St, Sanchong Dist., New Taipei City, Taiwan
TEL: +886-2-8511-0969 FAX: +886-2-8511-0970 E-mail: lkkok@lkkok.com.tw http:// www.lkkok.com.tw

CERAMIC FIBER FILTER WITH CATALYST



1. Structure and Principle

FIBROUS CERAMIC BASE MATERIAL : This is the heart of this new technique. It ensures that a porous body allows gas to pass through the filter and leaves all dust particulate on the surface of the filter. The filter even removes PM 2.5 dust and has a measurable HEPA (High Efficiency Particulate Arrestor) performance. This is the highest performing filter used in industrial scale filter plant and gives unsurpassable performance with dust emission levels below 2 mg/m³. It can operate at high temperatures even up to 900°C without damage and because it is ceramic it possesses the ability to withstand chemical attack even under the most aggressive conditions.

FIBROUS CERAMIC SURFACE :

The surface of the fibrous ceramic accumulates dust particles and if a suitable chemical sorbent is used the dust cake on the filter surface gives an ideal bed for acid gas scrubbing to remove SO₂, SO₃ and HF and HCl gases. This technique is well proven and forces the acid gases into very close proximity with the sorbent, ensuring that the reaction rate is extremely high while sorbent levels are kept to a minimum.

These acid gas scrubbing reactions can take place at high efficiency levels at temperatures up to 350°C which enables the filter plant to be operated at temperatures in excess of acid dewpoints where many problems with corrosion and dust handling can occur with old techniques.

OPEN POROUS INTERIOR : The open porous interior of the filter is the ideal location for a catalyst that will reduce emissions of NO_x and VOCs and dioxins. The ability to operate at higher temperatures allied with the high removal efficiency of fine particles provides an ideal reaction bed for the catalyst to work. The filter prevents the blocking or blinding of the catalyst by fine dust particles and also prevents chemical poisons from reducing catalytic activity. This will maintain not only very high levels of efficiency but will also extend the working life of the catalyst.

2. Purpose

The catalyst and ceramic filter both operate very well at 300 – 350°C. . This temperature is outside the zone where there may be liquid dewpoint excursions and is above the temperature where ABS, Ammonium Bisulphate, is present which can detract from the

富利康科技股份有限公司 CLEAN AIR TECHNOLOGY LTD.

高雄市大寮區華東路 19 號 No. 19, Huadong Rd., Daliao Dist., Kaohsiung City 831134, Taiwan

TEL : +886-7-788-9990 FAX : +886-7-788-9991 E-mail : mike.li@cat-filter.com <http://www.cat-filter.com/>

performance of the catalyst. This is the optimum temperature zone for the deNO_x reaction too. This new filter can also be used for reducing SO_x. Normally deSO_x takes place at around 140oC, an operating temperature which can give corrosion problems as this is at dewpoint conditions. It is not widely known but the deSO_x reaction tails off to around 240oC, where, as the temperature continues to rise the efficiency picks up. At 250oC the reaction proceeds at around the same rate as at 140oC, but without the issues associated with liquid formation.

3. Features

The combination of ceramic filter and catalyst also has other benefits. By embedding the catalyst within the ceramic filter wall the catalyst is protected against these two mechanisms affecting performance. The ceramic filter is so efficient in removing even sub-micron particles from the gas that there is no contact whatsoever between dust and catalyst. This enhances performance and of course lifetime of the catalyst and negates the need for cleaning and maintenance of the catalyst. This is a very important advantage over the old traditional catalyst systems. One other important advantage is that there is no

observable diffusion restriction in catalyst performance. In standard catalytic systems there is a competing gas flow in and out of the pores of the catalyst beads in the SCR. In the new hybrid catalytic ceramic filter the catalyst is finely divided through the body of the filter rather than just coating a ceramic bead surface. This enables nano sized needles of catalyst to be exposed to the gases as they flow through the filter. There is no diffusion in and out of the catalyst and the flow is unidirectional across the catalyst. This in effect increases the catalyst/gas contact opportunities and improves the efficiency of the reaction.

4. Product photo



5. Award (Certification) Project

The product was certified the award from IDB for envi-ronmental protection equip-ment application benchmark in 2020.

富利康科技股份有限公司 CLEAN AIR TECHNOLOGY LTD.

高雄市大寮區華東路 19 號 No. 19, Huadong Rd., Daliao Dist., Kaohsiung City 831134, Taiwan

TEL: +886-7-788-9990 FAX: +886-7-788-9991 E-mail: mike.li@cat-filter.com <http://www.cat-filter.com/>

ROOTS BLOWER SILENCER

1. Structure and Principle

There are two kinds of aerodynamic noise in Roots blower: rotating noise and vortex noise.

The rotating noise of Roots blower is the noise caused by the interaction between the circumferential uneven air flow and the volute when the impeller rotates. The main sound sources are volute, blade and wind tongue. When the impeller rotates, the velocity and pressure of the air flow are not uniform at the outlet of the blade along the circumferential direction. This kind of uneven air flow rushed to the volute before it was flattened, thus forming the pressure pulsation on the volute at any time and becoming a noise source. The stronger the nonuniformity, the greater the noise. The non-uniform exit along the circumference could have been a kind of steady motion, but the existence of the wind tongue has the pressure fluctuation with time,

which in turn affects the flow of the impeller, so the air flow on the blade also has the pulsation property with time, so the force on the blade fluctuates with time, making the blade become the second noise source. It, together with the noise source on the wind tongue, is caused by the rotation of the impeller, so it is called rotating noise, also known as discrete frequency noise.

2. Purpose

When roots blower is running, it will produce strong noise. According to the mechanism of noise generation, fan noise includes pneumatic noise, mechanical noise and electromagnetic noise; according to the parts of noise generation, there are intake noise, exhaust noise, casing noise, gear noise (using booster or transmission) and motor or turbine noise, etc.

高識能股份有限公司

HIGH VIEW INNOVATION CO., LTD.

新竹市牛埔路 251 號 No.251, Niupu Road, Hsinchu City, Taiwan

TEL : +886-3-538-4063 FAX : +886-3-538-9467 E-mail : wisdom@hviglobal.com <http://www.global.com>

NOISE ABSORBER

1. Structure and Principle

Sound wave passing through different mediums produces varied intensity diminution; hence greater sound muting materials can be utilized for noise reduction.

2. Purpose

Prevent various noises generated during processing, such as, Spray rod welding, Sand Spraying, Compressor, Windmill, Blower, Cooling Water Tower, Punch.

3. Features

Noise material should be selected according to operating temperature for minimum pressure loss.

4. Product Photo



Spray Muffle Room

銓風機械股份有限公司

CHUAN FENG MACHINERY CO., LTD

台中市南屯區五權西路二段 1266 巷 11 號

No.11, Lane 1266, Sec. 2, Wucyuan W. Rd., Nantun District, Taichung City, Taiwan

TEL : +886-4-2389-2832 FAX : +886-4-2389-0168

E-mail : cf002@ms49.hinet.net http : //www.chuanfeng.com.tw