

A large circular graphic on the left side of the page contains a collage of images: modern glass skyscrapers, green leaves, wind turbines in a green field, industrial pipes and a crane, and a hand holding glowing particles.

A specialist of
Air Pollution Control Equipment

**Clean Environment
Good Health for Humans**



WOORYANG ENG

www.wooyangeng.co.kr

*The Future-oriented attitude considering environment,
which is customer management that WOORYANG pursues.*

I sincerely appreciate your continued support for us, WOORYANG ENG.

WOORYANG ENG is the officially registered manufacturing company producing equipment preventing air pollution which can be caused in industrial and commercial areas. We have expertise to develop, manufacture, and construct air pollution prevention facilities including small-sized dust collectors, medium/big-sized plants, and industrial filters. Moreover, we are establishing nationwide networks with cooperative companies and agencies, and also exporting our dust collectors to various countries. Thus, we are making progress as a pioneer in prevention of air pollution.

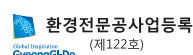
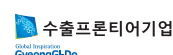
Since its establishment in 1995, WOORYANG ENG offers designing, manufacturing, constructing, and A/S of air pollution prevention facilities by One Step System, based on our professional artisanship, a consistent and responsible attitude, and know-how from rich experience for its 25 years' operation. We adopted quality and environment management systems named ISO9001, ISO14001 in order to improve products' quality and maximize customer satisfaction. We always work hard to provide the best quality products and services.

All products we provides including dust collectors hold not only patents, utility model registration, design registration, but also CE and NEP certificates from Ministry of Knowledge Economy. This shows that WOORYANG ENG gains multifaceted competitiveness in the field of air environment. In recognition of our achievement, we have been honored successively for Development of Excellent capital goods merit enterprises and Practical use new technology merit enterprises by Ministry of Commerce, Industry and Energy Minister testimonial.

In the future, as one of the pioneers in air environment field, we WOORYANG ENG will strive to research and develop products that can solve air pollution and meet customers' needs. Also, we promise to do our best to provide high quality products and services by tireless technological innovation and strict quality control systems based on customer centered management.

Thank you.

President / CEO Shin-ki Kang



- 2017. 10 The Prime Minister Citation for contributing to fostering capital goods industry
- 08 Increasing the capital to UDS 600,000
- 07 Appointed as an export promising small and medium industry (Gyeonggi-do)
- 06 Won the Environment Prize (Gyeonggi Provincial Governor)
- 04 Expanded and relocated the head office and the factory (Its present address)
- 2016. 12 Acquired Export Frontier Business Certificate (Gyeonggi-do)
- 10 Increased capital to USD 293,000
- 2015. 10 Acquired Direct Production Certificate (Dust collectors, Filters, Blowers. SMES)
- 03 Participated in technological innovation project as one of the host organizations (SMBA)
- 2014. 12 Received Good Environment Business (Gyeonggi-do #2014-06)
- 04 Participated in technological innovation project as one of the host organizations (SMBA)
- 2013. 10 Selected as the First-step technology development enterprise
- 09 Selected for small and medium-sized enterprise R&D support project
- 08 Participated in technology project for industry-university cooperation
- 06 Prized for regional economic development (Ministry of Trade, Industry and Energy Minister)
- 2012. 06 Selected as Enterprise specializing in parts materials (Ministry of Knowledge Economy #9424)
- 06 Selected as Promising Export small and medium-sized export enterprise (No.12 Gyeonggi-150)
- 06 Acquired Company-affiliated Research and Development Institute Certification (KOITA)
- 05 Selected as Promising Export small and medium-sized export enterprise (No.12 Gyeonggi-150)
- 01 Registered as Environmental Construction Enterprise (Gyeonggi-do, #122)
- 2011. 06 Newly built a Factory (Asan Techno Vally)
- 2009. 12 Won the Prize for Gyeonggi small and medium-sized enterprise (Gyeonggi Provincial Governor)
- 03 Selected as Promising Export small and medium-sized export enterprise (SMBA)
- 2007. 12 Prized for Practical use new technology merit enterprises (Ministry of CIEM #67393)
- 2006. 05 Obtained Technology Innovation Small and Medium enterprises(INNOBIZ) authentication
- 01 Obtained New product authentication(NEP), (NEP-2004-001, EEC)
- 01 Obtained Environmental Management System authentication (ISO 14001)
- 2005. 07 Increased capital to USD 209,000
- 07 Acquired Clean places of business certificate (#15865)
- 2004. 09 Selected as Promising Small and Medium enterprises (#2004-135)
- 09 Prized for Development of Excellent capital goods merit enterprises (Ministry of CIEM #55720)
- 06 Obtained Environmental equipment quality authentication (Ministry of CIEM, #2004-11)
- 06 Selected as the Gyeonggi internet frontier enterprise (Gyeonggi-do #2004-53)
- 01 Mergers and Acquisitions with an industrial filter manufacturer, and began filter production
- 01 Obtained venture business authentication (Small and Medium Business Administration)
- 2003. 11 Established the department of R&D (Korea Industrial Technology Association #2003527)
- 02 Increased capital to USD 125,000
- 2002. 12 Newly built and relocated the head office and the factory (Shiwha Industrial Complex)
- 09 Obtained Quality Management System authentication (ISO 9001)
- 04 Expanded and relocated the factory (Shiwha Industrial Complex, Gyeonggi-do)
- 2001. 10 Obtained membership of Korea Trade Association
- 04 Changed into corporation and amended its name (WOORYANG ENG CO., LTD.) (CEO Shin-ki Kang)
- 1995. 06 WOORYANG Engineering established (Representative Shin-ki Kang)



Certificates & Patents





A specialist of Environmental Equipments



**Clean Environment
Good Health for Humans**

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General-purpose bag filter dust collectors pursuing perfect basic performance

FEATURES

- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, it has powerful suction force with reliability, and performs quietly.
- **Filter cleaning system**
Users can choose the manual/automatic mode when dedusting a filter.
 - Manual cleaning : Shaking a dedusting lever slightly
 - Automatic cleaning : Dedusting automatically by vibration of the motor (After performing, it dedusts automatically.)
- **Digital monitoring & control system**
Monitor and control conveniently filter's differential pressure, change period, and so on.
- **Simple disposal of dust**
It is designed for dust to be collected in the dust tray at the bottom, so users can remove the dust easily without secondary contamination.
- **Simple maintenance**
Tools which need maintenance including the filter can be installed at the front of the machine so that users can replace the tools handily.
- **Filter designed to maximize filtering area**
The product adopts a polyester filter with powerful frictional strength and tensile strength, and filters very efficiently by four-cornered bag filter to maximize filtering area.



Filter for general dust



Filter for fine dust

CAUTION

The explosion-proof type dust collector is recommended for explosive dust such as aluminum, titanium, magnesium, and flour dust. Flame-blocking device needs to be installed if the dust collector inhales flame with pollutant. This dust collector is not suitable for wet, oil dust.



BF-2000MA(Automatic cleaning)



BF-2000H(Manual cleaning)

High efficiency collecting · Cost effectiveness · Low failure rate Dust collector for general use with multiple options

APPLICATIONS

It is appropriate to use this product for the worksite described below with particulate matters such as dry dust, powder, chip. powder input, powder filling, press task, grinder work, part manufacturing, milling, cutting, mixing rubber materials, sanding, surface treatment, polishing, timber mill, grain mill, cement factory, fertilizer plant, feed plant, mineral factory, chemical plant, pharmaceutical factory, dye factory, paint factory, plastic factory, food factory, flour mill.



SPECIFICATIONS

Item		BF-500	BF-1000	BF-2000	BF-3000	BF-5000	BF-7500	BF-10000
Output Power (kw)		0.75	0.75	1.5	2.2	3.7	5.5	7.5
Air Flow (m³/min)		7	12	25	40	60	80	100
Static Pressure (mmAq)		250	200	200	200	200	230	250
Filter	Area (m²)	1.25	3.55	7.0	13.0	17.0	34.0	34.0
	Pocket (Q'ty)	8	7	14	15	20	40	40
	Material	Polyester (option: 3D POREX)						
Method of Dedusting		Manual	Manual (Lever Handle) / Automatic (Motor)					
Inlet (mm)		100	125	150	200	250	300	350
Outlet (mm)		150	150	200	250	300	350	400
Weight (Kg)		60	100	140	185	195	340	360
Size (LxDxH, mm)		450x530x730	520x520x1280	620x620x1480	770x770x1800	870x770x1800	1500x800x1800	1500x800x1800

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

A variety of filters depending on the type of pollutant Collect various dust & high temperature dust gas

FEATURES

- The product collects and filters pollutants, as dust is sucked and passing through a number of bag filters.
- It has high dust collection efficiency of not only various type of dust but also minute particles. Also, thanks to slowly rising rate of pressure loss, it is suitable for filtering high density dust, and performs stably for long time.
- The textile of bag filters includes more than 10 types, so users can select proper filters depending on the sort of pollutant to maximize dust collection efficiency and filtration efficiency.
- The air pulse jet system automatically blasts high-pressure air for dedusting the filters, which increases dust collection efficiency, enables 24/7 operation, and extends filter life.



APPLICATIONS

Flour mill, mineral factory, fertilizer plant, dye factory, timber mill, food factory, cement factory, paint factory, chemical plant, feed plant, pharmaceutical factory, plastic factory, etc



※ This product is custom-built by a customer's request.

Customized products to suit environment and capacity of worksite To dispose of dust that is hardly removed by a cartridge filter

Types of filters used in Bag House

Textiles of the bag filter include more than 10 types whose usage is different from each other because of their various properties. As users select the type of bag filter, it is recommend considering multiple factors such as temperature, type of dust, disposal pressure, chemical resistance, moisture, and so on.

»**Polyester** : It is the most common fiber which is economical and has chemical resistance as well as heat resistance of 150 to 170 degree Celsius, whereas it should be used carefully with hydrolysis and alkaline gas in the environment under high temperature and humidity.

»**Polypropylene**: It features chemical resistant to acid and alkali so it is widely used in chemical industry, but it can be used only under low temperature 90 to 100 degree Celsius, and is not suitable for Aromatic Hydrocarbon.

»**Acrylic**: It features heat resistance and acid resistance but cannot hydrolyze.

»**Heat resistance Nylon**: It is proper to treat exhaust fumes under the temperature less than 190 degree Celsius, but has little assistance to acid.

»**Polyimide**: It has heat resistance and acid resistance but it is vulnerable to humidity and alkaline gas.

»**PPS**: It features chemical resistance, but it hardly endures oxidizer and bromine.

»**Glass**: It has heat resistance but it is recommended to install with filtering speed less than 1m/min.

»**PTFE**: It features the highest heat resistance and chemical resistance and is good at exfoliating dust.

»**PTFE/GLASS**: This fiber is the combination of 15% of glass and PTFE, and features high heat resistance and chemical resistance, and cake exfoliation.



Acrylic



Polyester



Conex(Aramid)



Polyester +SUS



Glass



Polyimide



Homo Acrylic



PPS



PET, CONEX, P84



PTFE/Glass

SPECIFICATIONS

	Item	Polyester	PP	Acrylic	Heat-resistant nylon	Polyimide	PPS	Glass	PTFE	PTFE/Glass
Heat Resistant	Dry heat(℃)	135	90	135	200	230	160	250	230	250
	Moist heat(℃)	100	90	130	180	200	150	200	230	230
	Instantaneous(℃)	150	100	140	210	260	190	280	260	270
Corrosion Resistant	Strong acid	◎	◎	○	△	△	◎	○	◎	○
	Weak acid	◎	◎	◎	○	○	◎	○	◎	◎
	Strong alkali	x	◎	○	△	△	◎	△	◎	△
	Weak alkali	△	◎	○	○	○	◎	○	◎	○
	Solvent	○	△	○	◎	◎	○	◎	◎	◎
	Hydrosis	x	△	x	△	△	△	○	◎	○
	Antioxidant	○	x	○	○	○	x	◎	◎	◎
Flame Resistant		Combustion	Combustion	Combustion	Flame Resistant (carbonization)	Flame Resistant (carbonization)	Flame Resistant	Non-flammability	Non-flammability	Non-flammability

◎: Excellent, ○: Good, △: Fair, X: Poor

Automatic filter dedusting by Air Pulse Jet System Maximizing dust collection efficiency & Running 24 hours

FEATURES

- Automatic filter cleaning system (Air Pulse Jet System)
It cleans dust stacked on the filter by jetting high pressure air to improve dust collection efficiency, and it can work 24 hours a day and extend the filter replacement period.
- Digital monitoring & Control system
Users can easily monitor and control filter differential pressure, replacement period, Air Pulse Jet System and so on. It detects and notifies cleaning and changing period automatically so that users can operate safely and conveniently.
- High efficiency turbo fan based on the design for its exclusive use
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.
- Automatic stop system for protection
If replacement or cleaning of the filter needed, it stops its operation for protection and alarms a buzzer. (After replacing the filter, it continues to operate.)
- Automatic dedusting system after completing operation
After completing its operation (Fan Motor off), it cleans filters automatically by Air Pulse Jet System so this system can raise dust collection efficiency and extend the filter's life span.
- Filter designed to maximize filtering area
The product adopts a polyester filter with powerful frictional strength and tensile strength, and filters can capture fine particles by a cartridge filter to maximize filtering area.



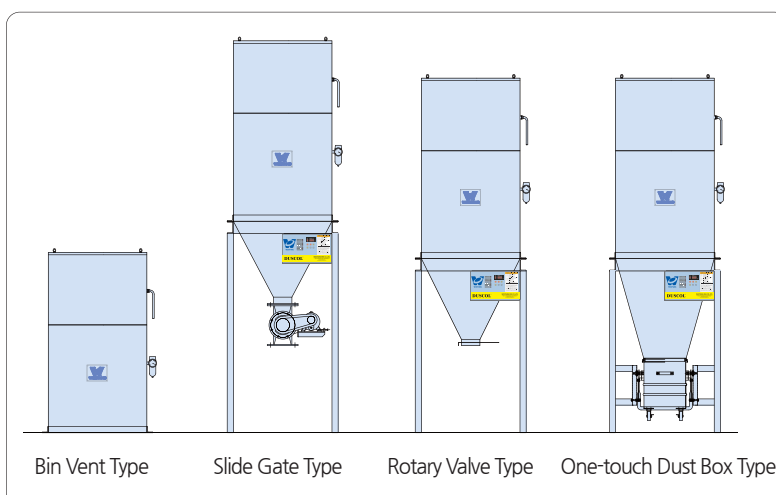
Digital monitoring & Control system



Convenient maintenance



Automatic filter cleaning system
(Air Pulse Jet System)



High efficiency collecting · Cost effectiveness · Low failure rate

Dust collector for general use with multiple options

APPLICATIONS

These products are suitable for work sites where dry dust and particulate matters are created.

Powder feeding, powder filling, press work, grinder work, parts fabrication work, milling work, cutting work, rubber material mixing, pulverization work, sanding work, surface treatment work, timber factories, grain factories, cement factories, fertilizer factories, forage factories, mineral factories, chemical factories, pharmaceutical factories, medical supplies factories, dye factories, paint factories, plastics factories, food factories, milling factories, etc.



SPECIFICATIONS

Item		NCT-2000	NCT-3000	NCT-5000	NCT-7500	NCT-10000	NCT-15000
Output Power (kw)		1.5	2.2	3.7	5.5	7.5	5.5 x 2
Air Flow (m³/min)		25	40	60	80	100	150
Static Pressure (mmAq)		200	200	200	230	250	250
Filter	Area(m²)	11.25	16.87	22.5	33.75	45	72(800L)
	Q'ty (EA)	6	9	12	18	24	24
Method of Dedusting		Air Pulse Jet System					
Inlet (mm)		150	200	250	300	350	400
Weight (Kg)		230	310	390	490	590	740
Size (LxDxH,mm)		650x650x1750	770x770x1800	900x900x1850	1300x900x1850	1700x900x1850	1700x900x2150

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Dust collection system with high collection efficiency and filter cleaning efficiency by the method of descending air current, independent of ascending air current

FEATURES

- **High dust collection efficiency by descending air current system**

It is designed for inside air current to flow from top to bottom, so ascending air current has no influence on this system. Thus, it features high dust collection efficiency and effectiveness of filter cleaning.

- **Equipped with oval filter to maximize filtering area**

- Filtering area : $9\text{m}^2/1\text{EA}$
- Standard filter : filtering 99.9% of bigger than $5\mu\text{m}$ particles
- Special filter : filtering 99.9% of bigger than $0.5\mu\text{m}$ particles

- **Automatic filter cleaning system (Air Pulse Jet System)**

It cleans dust stacked on the filter by jetting high pressure air and can filter automatically during operation to improve dust collection efficiency. Thus, it can work 24 hours a day and extend the filter replacement period. (MP series has the most efficient filter cleaning system because of little influence of ascending air current.)

- **Module Package System**

It can be constructed with 1 to 3 modules depending on the environment of worksite. Moreover, it is suitable for limited space because of its 2/3 volume compared to other dust collectors with same capacity.

- **Minimizing installation space by compact design of horizontal slide filter system**



Filters can be easily replaced without any tools thanks to horizontal slide system.



1 Module System

2 Module System

3 Module System

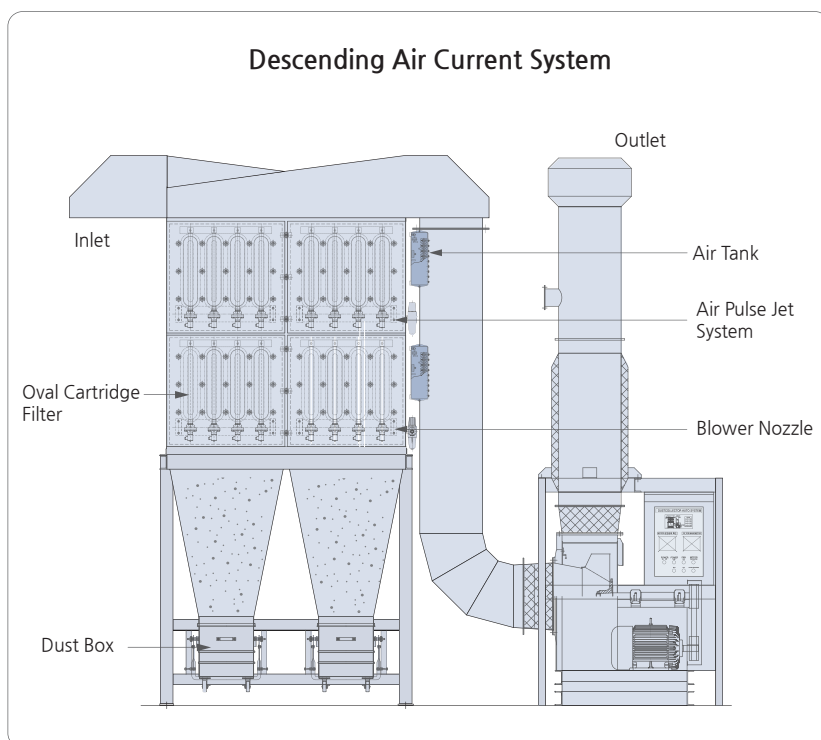


Oval filters with high dust collection efficiency $9\text{m}^2/\text{EA}$

Air pulse module dust collector Installed with oval filter and descending air current system

Dust collecting system with descending air current method equipped with oval filters to maximize filtering area!

Minimizing installation space to 2/3 compared to the space existing collectors occupy!



APPLICATIONS

Powder input, powder filling, mixing rubber materials, grinding work, sanding, cutting, grain mill, cement factory, fertilizer plant, feed plant, mineral factory, chemical plant, pharmaceutical factory, dye factory, flour mill, workplace with dry dust and particulate matters, etc.



※ This product is custom-built by a customer's request.

Descending air current module type collectors, equipped with dedusting nozzle inside the filters Ultimate product of dust collecting technology with efficient dedusting

FEATURES

- **High dust collection efficiency by descending air current system**
By descending air current method, it prevents dust scattering due to ascending air current. So it can naturally clean dust on the filter to reduce filter clogging and to maximize dust collection efficiency.
- **Outstanding filter cleaning function**
As high pressure air emitted through a number of pores of Air Nozzle pipes inside the filters, dust stacked on the filters can be dedusted cleanly to maximize dust collection efficiency.
- **Cylinder filter with wide filtering area**
Equipped with cylinder filter with wide filtering area ($11.6\text{m}^2/1\text{EA}$), the product features high dust collection efficiency and ability to capture ultra-fine dust.
- **Prevent secondary contamination when changing filters**
When replacing filters, users can prevent secondary contamination by covering old filters with plastic bags.
- **Superior expandability and cost-effectiveness**
Thanks to module type structure, if expansion of the collectors needed, users can establish more dust collectors only by adding module to existing one.
- **Spatial effectiveness by minimizing installation area**
By installing necessary module, users can minimize installation area, reduce investment cost, and use space effectively.



Filtering area
($11.6\text{m}^2/1\text{EA}$)



Prevent secondary contamination
when changing filters

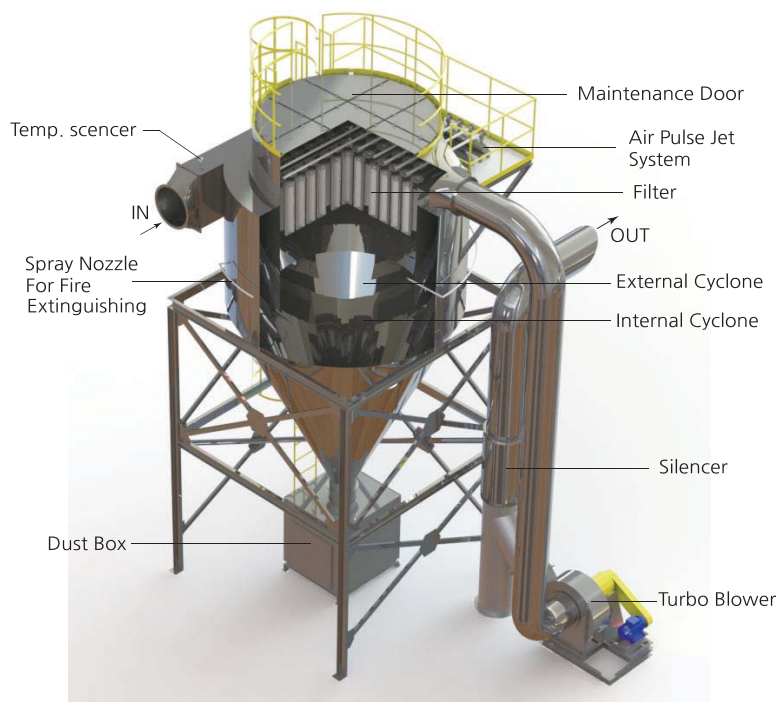


※ This product is custom-built by a customer's request.

Maximize dust collection efficiency by intergrated structure with cyclone and cartridge.

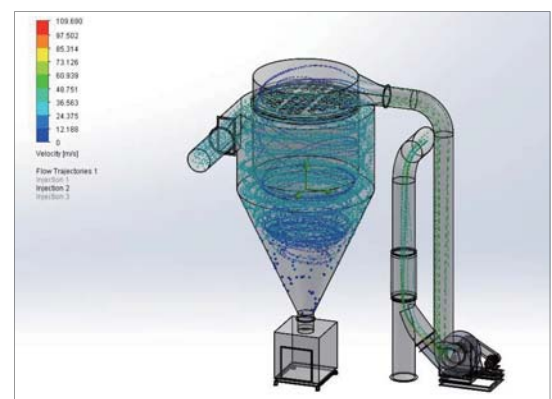
FEATURE

- **Maximize dust collection efficiency**
Maximize dust collection efficiency by intergrated cyclone.
- **High space utilization**
Minimize installation space, economical, and high space utilization.
- **Maximize dust collection efficiency by cyclone concurrency**
When treating a large amount of contaminants such as dust and chip, pretreatment from a cyclone minimizes dust flow into a dust collector to maximize dust collection efficiency and it helps to extend filer life
- **Air pulse jet system**
Automatically sprayed high pressure air to regu-
larly exhaust dust accumulated in the filter to
maximize dust collection efficiency.



APPLICATIONS

It is suitable for worksite with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, fire risky dust, high temperature gas, high temperature dust, harmful gas, etc.



Floating Analysis

※ This product is custom-built by a customer's request.

Suitable for disposal of light, adhesive dust Styrofoam · paper dust · fiber dust · fine timber dust

FEATURES

- **By combination with descending air current method and internal collection method, maximize dust collection efficiency**
The product uses descending air current method that it inhales polluted air inside the filter and leave only pollutant in the filter so that maximizes dust collection efficiency especially on light, adhesive dust.
- **Automatic filter cleaning system (Air Pulse System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can work 24 hours a day and help extend the filter's life span.
- **Maximize dust collection efficiency with cyclone**
If a large amount of dust or chip occurs, additional cyclone can be installed to maximize dust collection efficiency.
- **High scalability**
this product can be manufactured with various capacities and shapes to meet the situation of work sites and customers' requirements.
(rotary valve, butterfly valve, slide gate, one-touch box etc.)



fine timber dust



fiber dust



styrofoam dust

APPLICATIONS

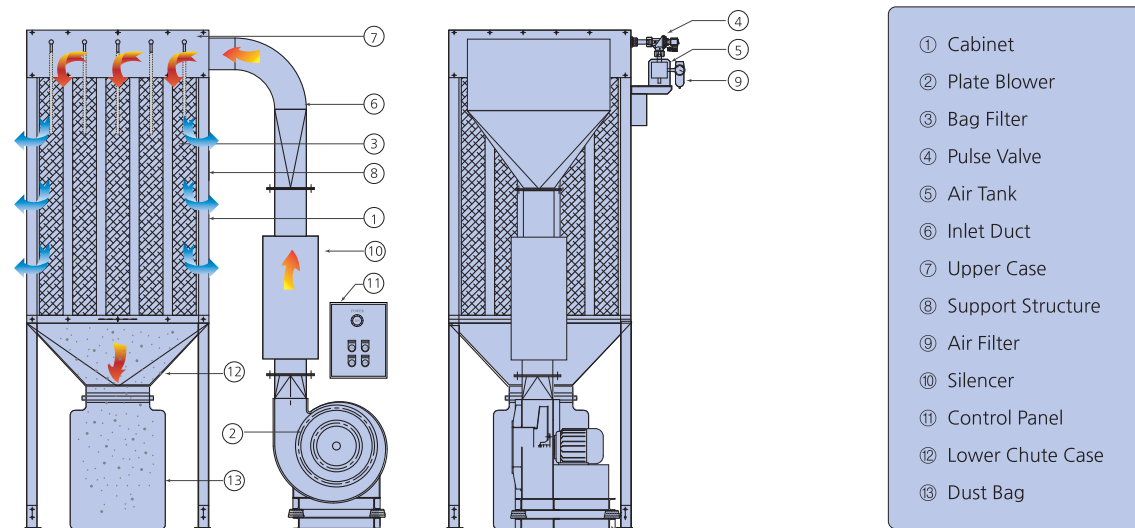
It is suitable for workplace with light, adhesive dust. Plant with styrofoam dust, paper dust, fiber dust, fine timber dust, etc



※ This product is custom-built by a customer's request.

Optimal for light dust by descending air current collecting system In parallel with cyclone, maximize dust collection efficiency

[Descending Air Current & Air Pulse System]



SPECIFICATIONS

Item		IBF-2000	IBF-3000	IBF-5000	IBF-7500	IBF-10000
Output Power (kw)		1.5	2.2	3.7	5.5	7.5
Air Flow (m ³ /min)		20	30	50	70	90
Static Pressure (mmAq)		200	200	200	200	200
Filter	Area(m ²)	7.536	14.14	17.67	22.61	28.27
	Q'ty (EA)	16	20	25	32	40
Size (LxDxH,mm)		940x940x2650	940x1150x3150	1150x1150x3150	1740x900x3050	1780x1150x3150

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

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※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

※ This product is custom-built by a customer's request.

Stable operation under dust collecting temperature maximum 450 °C
Outstanding dust collection efficiency with descending air current system

FEATURES

- **High dust collection efficiency with descending air current system**
It is designed for air current to flow from top to bottom, if Air Pulsing conducted at the side of the machine, it will facilitate dedusting following its air current and extend the filter's life span.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can work 24 hours a day and help extend the filter's life span.
- **Ceramic filter which is able to dispose of high temperature gas, fine particles, and harmful gas at once**
It adopts ceramic catalytic filters that are used in reduction devices which treat Dust, NOx simultaneously in combustion process.
- **Properties of high temperature ceramic filter**
 - Superior heat resistance, chemical resistance, wear resistance
 - Stable operation under high temperature (450°C)
 - Constant 99.9% of dust collection efficiency during using period
 - Selectively contain NOx / VOC's reduction catalyst
 - High durability / wear resistance / chemical resistance
 - Low pressure loss of filter, less than 20mmH2O



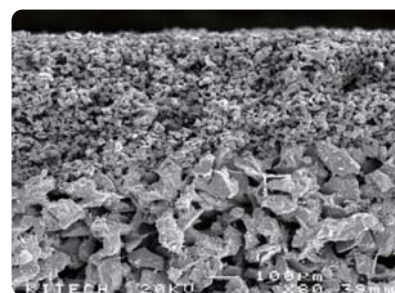
Off Line Damper



Air Pulse Jet system



Filter connecting system



3D Pore Structure Ceramic Filter
(High dust collection efficiency, 99.9% of PM 2.5)



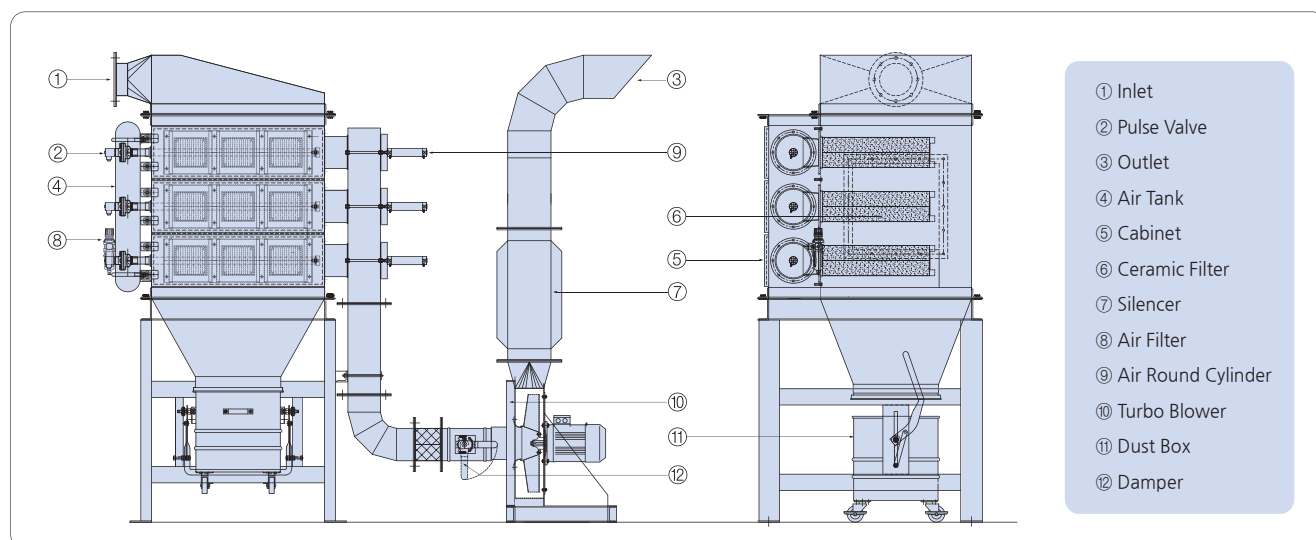
Section x 30



Section x 80

※ This product is custom-built by a customer's request.

Outstanding dust collecting ability to high temperature pollutant Ceramic filter dust collectors



APPLICATIONS

Thermal power plant, backside of incinerator, melting non-ferrous metals, refining non-ferrous metals, glass furnace, refractories manufacturing process, desulfurization facility, collecting vessel exhaust fumes, combustion boiler, steel mill, steel manufacture, collecting engine exhaust fumes, etc.

SPECIFICATIONS

Item		For Low Temp.	For Midium Temp.	For High Temp. Module	For High Temp. Bag Filter			
Shape of the Filter								
Adaptation Temp.	~120℃	●	●	●				
	~220℃		●	●				
	~450℃			●	●			
Filtering Area (㎡)	500mm	0.725	0.825	1.65~4.125	0.725~0.825			
	1000mm	1.5	1.65	—	1.5~1.65			
	1500mm	2.175	2.475	—	—			
Material	Thickness (mm)	Length (mm)	Ventilation Rate (cm/cm/sec)	Size of pores (mm)	Porosity (%)	Wear Resistance	Acid Resistance	Alkali Resistance
SiC or Al ₂ O ₃	5~10	1000	7~8	≒15↑	50%	excellent	excellent	excellent

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※ This product is custom-built by a customer's request.

Dust collectors for explosion hazardous dust As a safety measure in case of dust explosion

FEATURES

- **Designed as a safety measure to prepare for dust explosion hazards**
To forestall possible dust combustion and explosion, it is equipped with static electricity prevention motor and flame proof motor so that serves as a safety measure against dust explosion.
- **Perfectly sealed electric box**
The electric box uses flame-retardant cables and perfectly sealed structure. Thus, the box is free from exposure to dust, and also prevents leakage in case flame occurs because of electrical factor.
(Safety Certification Standard : Ministry of Employment and Labor #2010-36, Explosion Proof Level : Exd II B+H2T6)
- **Back draft damper**
If there is explosion inside the collectors, it prevents blast degradation through duct to deter the spread of damage and to protect workers.
- **Pressure diffusion hole**
If dust explodes inside the collectors, it induces explosion energy to move to pressure diffusion hole at the upper part on the backside and to be emitted so that it can minimize explosion damage.
- **Static electricity prevention filter (Antistatic filter)**
Equipped with static electricity prevention cartridge filter, it blocks explosive dust from static electricity to prevent explosion.
(It can be installed with 3D POREX, Nomax, Flame-retardant, Membrane Filter, etc)



Perfectly sealed electric box



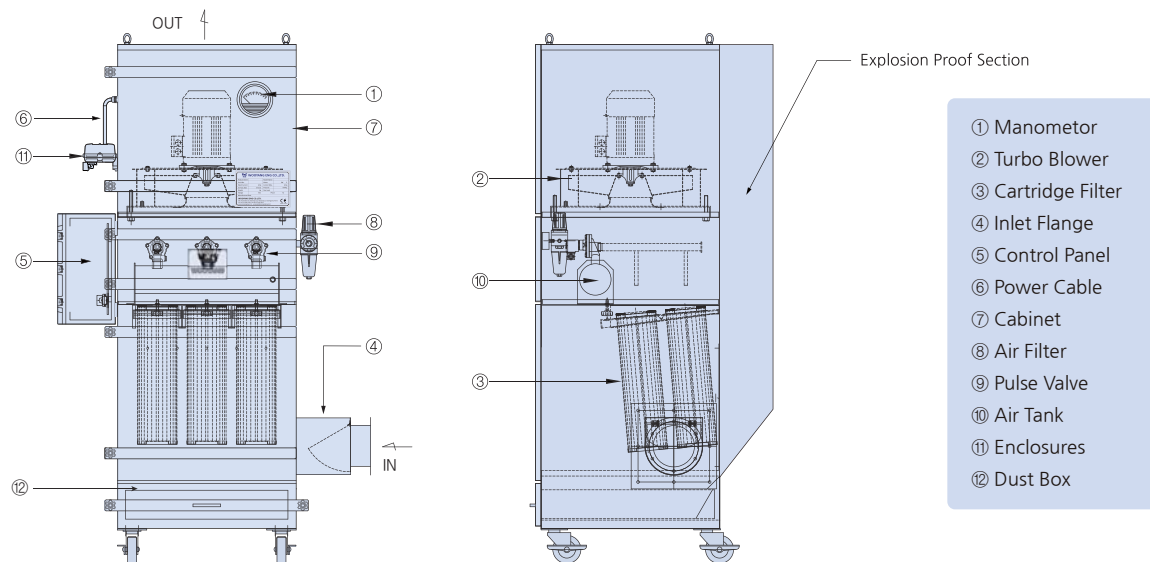
Static electricity prevention filter



CAUTION

- This product minimizes explosion cause and damage, but doesn't prevent dust explosion perfectly.
- Inflow of any flame or ignition source near the product must be prohibited.

Dust collectors disposing of explosion hazardous dust safely As a safety measure in case of dust explosion



APPLICATIONS

Collecting aluminum, magnesium, titanium, cornstarch, epoxy resins, and coal particle
(It is recommended to use wet type explosion proof dust collectors for magnesium or aluminum dust because they are specially explosion hazardous.)



SPECIFICATIONS

Item		DEC-2000	DEC-3000	DEC-5000	DEC-7500	DEC-10000	DEC-15000
Output Power (kw)		1.5	2.2	3.7	5.5	7.5	5.5x2
Air Flow (m³/min)		25	40	60	80	100	150
Static Pressure (mmAq)		200	200	200	230	250	2500
Filter	Area(m²)	11.25	16.87	22.5	33.75	45	72
	Pocket Q'ty	6	9	12	18	24	24
	Material	Polyester (Antistatic, Al coated)					
Method of Dedusting		Air Pulse Jet System					
Inlet (mm)		150	200	250	300	350	400
Weight (Kg)		330	410	490	590	690	840
Size (LxDxH,mm)		650x850x1750	700x970x1800	900x1100x1850	1300x1100x1850	1700x1100x1850	1700x1100x2150

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

To prevent dust from scattering and spreading Table type dust collectors using downward suction method

FEATURES

- **Strong downward suction method**
Fine particles caused by operation can be immediately inhaled downward by powerful turbo motor to prevent the particles scattering and spreading.
- **Adopting high efficiency filter**
It is equipped with efficient oval filters with large filtering area (5.6m²/1EA) so that it can remove ultra-fine particles perfectly.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can work 24 hours a day and help extend the filter's life span.
- **Operation with low noise**
It runs with low noise by two-level air emission system.
- **Combination with work stand and dust collectors & Convenient mobility**
It is designed to be combined work stand with dust collectors for users to work conveniently and safely and to use space efficiently.



APPLICATIONS

It is suitable for workplace with fine particles, scattering dust. Powder work, grinder work, parts manufacturing, toner work, cutting, sanding, surface treatment, polishing, etc.

SPECIFICATIONS

Item	DDT-1300	DDT-1800	DDT-2400
Output Power (kw)	2.2 (4P)	3.7 (4P)	5.5 (4P)
Air Flow (m ³ /min)	60	100	130
Static Pressure (mmAq)	120	120	120
Method of Dedusting	Air Pulse Jet System		
Size (LxDxH, mm)	1300x920x820	1800x920x820	2400x920x820

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.



Necessity for flame polishing work table type scrubbers with downward suction method

FEATURES

- **Strong downward suction method**
Fine particles caused by operation can be immediately inhaled downward by powerful turbo motor to prevent the particles scattering and spreading.
- **Optimal for flame polishing work**
Flame dust is collected after contacting to vortex made inside the product, so that fire risk can be eliminated.
- **Operation with low noise**
It is designed to release air flow with 2 levels to operate quietly.
- **Combination with work stand and dust collectors & Convenient mobility**
It is designed to be combined work stand with dust collectors for users to work conveniently and safely and to use space efficiently.
- **Installation of protection working board**
The rubber board installed on the work stand protects the working objects.



APPLICATIONS

It is suitable for workplace with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, flame dust, fire risky dust, high temperature gas, high temperature dust, and harmful gas.

For example, sanding, powder work, scattering dust work, toner work, and so on.

SPECIFICATIONS

Item	TWS-1300	TWS-1800	TWS-2400
Output Power (kw)	3.7 (4P)	5.5 (4P)	7.5 (4P)
Air Flow (m³/min)	60	100	130
Static Pressure (mmAq)	180	180	180
Size (LxDxH, mm)	1300x1370x820	1800x1370x820	2400x1370x820

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for various polishing works that need a large space

FEATURES

- **Single-body collecting system with space efficiency**
The product features high space efficiency for workplace because users don't need to install a hood additionally.
- **Enclosure structure composed of transparent partitions**
It is designed not to leak pollutant occurring during operation by enclosure structure, so that it can keep worksite fresh.
- **Prevention system from dust scattering (Push Air System)**
Equipped with Push Air System that makes air flow from top to bottom side of booth, it hinders dust scattering and maximizes dust collection efficiency. (option)
- **Control air rate**
By installing a number of Slop Damper at the front side, users can control air rate freely based on the environment of the workplace.
- **Convenient establishment & Superior expandability**
It can be conveniently established on the unit working process. Moreover, if additional collectors needed in other working processes, it is simply able to be expanded on those processes.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can work 24 hours a day and help extend the filter's life span.

※ This product is custom-built by a customer's request.



Booth Type Dust Collector



Booth Type Scrubber



Filter system
(high efficiency / easy replacement)



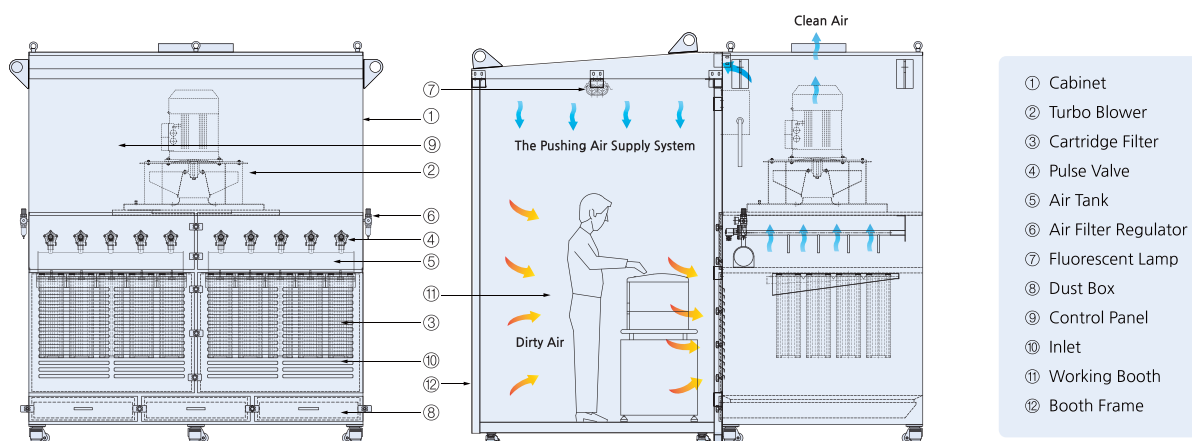
Convenient maintenance



Optimal for polishing work

Booth type dust collectors

That convert entire work space to dust collecting system



APPLICATIONS

It is suitable for workplace abundant in fine particles, scattering dust, flame dust. Powder input, powder filling, press task, grinder work, parts manufacturing, milling, cutting, mixing rubber materials, measuring work, sanding, surface treatment, polishing, etc.



SPECIFICATIONS

Item		WGB-1500	WGB-2000	WGB-3000	WGB-4000
Output Power (kw)		5.5 (4P)	7.5 (4P)	5.5 (4P)	7.5 (4P)
Air Flow (m ³ /min)		80	100	160	200
Static Pressure (mmAq)		180	180	180	180
Filter	Area(m ²)	33.75	45	67.5	90
	Pocket Q'ty	18	24	36	48
Method of Dedusting		Air Pulse Jet System			
Weight (Kg)		550	650	1100	1300
Size (LxDxH,mm)		1500x2800x2320	2000x2800x2320	3000x3300x2320	4000x3300x2320

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for disposal of explosion · flame · wet dust

FEATURES

- **No necessity of extra pump for producing vortex**
The vortex is caused in the water tank by air flow based on suction force of the blower. Thus, there is no necessity of extra pump.
- **Measuring window**
The product is equipped with a measuring window through which users can check and control the machine's operation, so that it is handy to inspect the product for maintenance.
- **Discharge of sludge and convenient cleaning**
Sludge is collected in the sludge storage installed at the bottom of the product, and can be discharged conveniently through Drain Valve or sludge transportation pump.
- **Reducing management expenses by low pressure operation**
By low pressure operation system, it minimizes power used during operation to reduce management expenses and to run economically.
- **Collecting ability for special dust**
It is suitable for disposal of special dust that is hardly collected by filter type dust collectors, such as sugary dust, dust susceptible to temperature, explosive dust, high temperature gas, harmful gas, odor gas, ignitable dust.
- **Structure without a filter**
It doesn't adopt any filter but runs based on vortex water mechanism, so that it can operate with relatively low management expenses.
- **Automatic water level control system**
Users can easily manage the product thanks to automatic water level control system performing on the basis of water level gauge.

In the case of explosive dust,
it is recommended to consult before making an order.



Hopper type



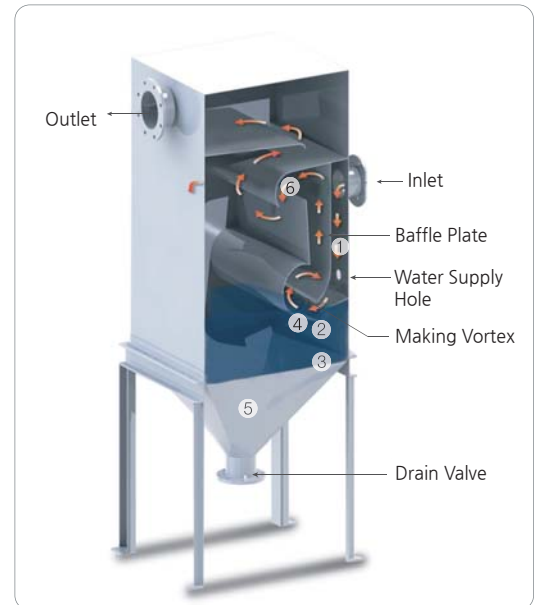
Standard type



Optimal for disposal of explosion · flame · wet dust

Mechanism of vortex water system

1. The polluted air inhaled through a blower smashes into ① partition (Baffle Plate).
2. As passing through slot between ② and ③ partitions, this air contacts to water.
3. Inside the slot ④, the powerful vortex occurs by air flow caused by the blower.
4. After the pollutant is diluted by the power of vortex, it is deposited on the sludge storage ⑤.
5. Filtered air bumps against smash board ⑥, and the rest pollutant included in the mist is filtered one more time. After that, the clean air is released to the outside.



APPLICATIONS

It is suitable for the worksite with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, fire risky dust, high temperature gas, high temperature dust, harmful gas, etc.



SPECIFICATIONS

Item	WS-500	WS-1000	WS-2000	WS-3000	WS-5000	WS-7500	WS-10000
Output Power (kw)	0.6	0.75	1.5	2.2	3.7	5.5	7.5
Air Flow (m ³ /min)	4	10	20	30	45	65	80
St. Pressure (mmAq)	100	120	190	190	190	200	200
Inlet (mm)	100	125	150	200	250	300	350
Size (LxDxH,mm)	500x300x760	520x750x1264	520x895x1339	750x945x1590	950x1140x1714	1195x1253x2104	1210x1270x2200

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Powerful refining ability with 2 step vortex water system

FEATURES

- **Maximize dust collection efficiency by 2 step vortex water system**
By increasing contact time between pollutant and water, the products maximizes dust collection efficiency and is able to collect fine particles by strong vortex.
- **Discharge of sludge and convenient cleaning**
Sludge is collected in the sludge storage of the product, and can be discharged conveniently through drain valve or sludge transportation pump.
- **Collecting ability for special dust**
The product is optimal way to dispose of special dust that is hardly collected by filter type dust collectors, such as sugary dust, dust susceptible to temperature, explosive dust, high temperature gas, harmful gas, odor gas, ignitable dust.
- **Structure without a filter**
It doesn't adopt any filter but runs based on vortex water mechanism, so that it can operate with relatively low management expenses.
- **Strongly remove 99.5% of odor by using bio-additives**
It can remove odor powerfully based on eco-friendly bio-additives and refining ability of vortex water system collectors.
- **Economical operation by using eco-friendly bio-additives**
By using eco-friendly, high efficient bio-additives, it performs environmentally friendly and economically compared to other collectors using chemicals.



APPLICATIONS

It is suitable for workplace with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, fire risky dust, high temperature gas, high temperature dust, harmful gas, etc.

SPECIFICATIONS

Item	DWS-500	DWS-1000	DWS-2000	DWS-3000	DWS-5000	DWS-7500	DWS-10000
Output Power (kw)	0.75	0.75	2.2	3.7	5.5	7.5	7.5
Air Flow (m ³ /min)	7	12	25	40	60	80	100
St. Pressure (mmAq)	200	200	250	250	250	250	250
Inlet (mm)	100	125	150	200	250	300	350
Size (LxDxH,mm)	500x300x760	520x750x1270	520x900x1340	750x950x1590	950x1140x1720	1200x1260x2110	1210x1270x2200

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Remove 99.5% of odor by using eco-friendly, effective nontoxic bio-additives

Based on powerful refining ability of 2 step vortex water system

Disposing/cleaning agents which decomposes odor fundamentally

This bio-product doesn't just hide the odor temporarily but decomposes odor fundamentally to hinder molecular structure making that causes odor sources, so that it works effectively by performing biologically by preventing emitting unpleasant gas from odor sources in air.

* Eco-friendly bio-additives developed by our company. (Contents: seaweed extracts, coconut oil, potato starch)

100% eco-friendly decomposing agents for cleaning animal/vegetable fat

The product is a cleaning agents that remove oil or cooking oil from animal fat, so that its use will be effective at the workplace such as meat processing factory, restaurant, and wherever needs removal of animal fat. Freeco is 100% eco-friendly product with outstanding cleaning effect to remove adhesive oil from the surface of hard material, metal, tile, and cement concrete.

* Eco-friendly bio-additives developed by our company. (Contents: seaweed extracts, coconut oil, potato starch)



Clean One



Freeco-Ex

Eco-friendly bio-additives & 2 step vortex water system

Wet type collectors for odor removal take the water washing method that the product inhales polluted air and make the air contact to water to remove odor. In this way, the product pursues high efficiency by removing more than 99.5% of odor based on eco-friendly bio-additives and 2 step vortex water system.



APPLICATIONS

It is suitable for workplace with odor such as animal excrement treatment plant, slaughterhouse, compost plant, excrement treatment plant, sewage treatment plant, food processing factory, feed plant, laboratory, oil station storage, toilet, waste treatment plant, food waste treatment plant, apartment waste treatment plant, etc.



food waste treatment plant



food processing factory



animal excrement treatment plant



sewage treatment plantFreeco-Ex

※ Customized collectors are available by the variety of sizes from small to large depending on the amount of odor.

Powerful refining ability Venturi Scrubbers with 2 step vortex water system

FEATURES

- **3 Levels collecting system**
By the collecting system with venture, double vortex, and adsorption, it collects and filters dust, gas, and odor at the same time.
- **Measuring window**
The product is equipped with a measuring window through which users can check and control the machine's operation, so that it is handy to inspect the product for maintenance.
- **Discharge of sludge and convenient cleaning**
Sludge is collected in the sludge storage installed at the bottom of the product, and can be discharged conveniently through drain valve or sludge transportation pump.
- **Collecting ability for special dust**
It is suitable for disposal of special dust that is hardly collected by filter type dust collectors, such as sugary dust, dust susceptible to temperature, explosive dust, high temperature gas, harmful gas, odor gas, ignitable dust.



APPLICATIONS

It is suitable for worksite with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, fire risky dust, high temperature gas, high temperature dust, harmful gas, etc.



SPECIFICATIONS

Item	VWS-1000	VWS-2000	VWS-3000	VWS-5000	VWS-7500	VWS-10000
Output Power (kw)	0.75	2.2	3.7	5.5	7.5	11
Air Flow (m ³ /min)	12	25	40	60	80	100
St.Pressure (mmAq)	200	210	250	250	300	300
Pump (kw)	0.75	0.75	0.75	1.5	1.5	2.2
Inlet (mm)	125	150	200	250	300	350
Size (LxDxH,mm)	520x750x1270	1420x980x2300	1550x980x2500	1700x980x2600	1900x1000x2700	2000x1100x2900

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

※ In the case of explosive dust, it is recommended to consult before making an order.

Cyclone scrubbers with 2 step vortex water system Three times effective by only one machine

FEATURES

- **3 Levels collecting system**
By the collecting system with venture, double vortex, and adsorption, it collects and filters dust, gas, and odor at the same time.
- **No necessity of pump for producing vortex**
The vortex is caused in the water tank by air flow based on suction force of the blower. Thus, there is no necessity of extra pump.
- **Measuring window**
The product is equipped with a measuring window through which users can check and control the machine's operation, so that it is handy to inspect the product for maintenance.
- **Discharge of sludge and convenient cleaning**
Sludge is collected in the sludge storage installed at the bottom of the product, and can be discharged conveniently through drain valve or sludge transportation pump.



APPLICATIONS

It is suitable for worksite with aluminum dust, magnesium dust, hygroscopic dust, explosive dust, fire risky dust, high temperature gas, high temperature dust, harmful gas, etc.

※ This product is custom-built by a customer's request.



SPECIFICATIONS

Item	CWS-1000	CWS-2000	CWS-3000	CWS-5000	CWS-7500	CWS-10000
Output Power (kw)	0.75	2.2	3.7	5.5	7.5	11
Air Flow (m ³ /min)	12	25	40	60	80	100
St.Pressure (mmAq)	200	210	250	250	300	300
Pump (kw)	0.75	0.75	0.75	1.5	1.5	2.2
Inlet (mm)	125	150	200	250	300	350
Size (LxDxH,mm)	520x750x1270	1420x980x2300	1550x980x2500	1700x980x2600	1900x1000x2700	2000x1100x2900

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

※ In the case of explosive dust, it is recommended to consult before making an order.

Removal system of chemical neutralization and dissolution in water Collecting harmful gas · odor · chemicals Included in droplet · liquid membrane · bubble

FEATURES

- **Corrosion resistant system**
The product has good durability and long life span, designed with corrosion resistant materials including PVC, FRP that have little influence by harmful gas.
- **Customized establishment depending on the sort of pollutant**
Based on the sort of pollutant that will be disposed of, users can choose chemicals. In addition, the nozzle size can be customized depending on properties and weight of harmful gas and dust.
- **Maximize cleaning effect by a large amount of Pall Ring**
It maximizes disposal efficiency by broadening the contact area between harmful gas and cleaning agents with a large amount of Pall Ring.
- **Circular use of cleaning agents to operate economically**
Cleaning agents jetted through a spray nozzle can be reused after filtering.
- **Reducing management expenses by low pressure operation**
By low pressure operation system, it minimizes power used during operation to reduce management expenses and to run economically.
- **Collecting ability for special dust**
It is suitable for disposal of special dust such as sugary dust, dust susceptible to temperature, explosive dust, high temperature gas, harmful gas, odor gas, ignitable dust.



Spray nozzle



Pall Ring



Demister

- ※ This product is custom-built by a customer's request.
- ※ Customized collectors are available by the variety of sizes from small to large depending on the amount of odor.

Removal system of chemical neutralization and dissolution in water

Collecting harmful gas·odor·chemicals included in droplet·liquid membrane·bubble

APPLICATIONS

It is suitable for worksite with water-soluble harmful gas, odor, and fine particles.
Chemical industry, steel industry, workplace with VOCs, sewage treatment plant, excrement treatment plant, workplace with odor, workplace with fume like plating factory, workplace with harmful gas in semi-conductor industry, workplace various harmful gases, etc.



SPECIFICATIONS

Item	SWS-100	SWS-150	SWS-200	SWS-250	SWS-300	SWS-500
Output Power (kw)	5.5	7.5	11	15	18.5	30
Air Flow (m³/min)	100	160	200	250	300	500
Static Pressure (mmAq)	150	180	180	200	200	200
Pump (kw)	5	5	5	8	8	10
Diameter (mm)	1,500	1,800	2,100	2,300	2,500	3,200
Height (mm)	4,500	4,900	4,900	5,100	5,100	5,500

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Sludge pump / WSP series

FEATURES

- This product is a special pump performing based on pressing power of a compression roller and resilient power of a hose.
- It is perfectly self-priming with powerful discharge force and suction force to high viscous sludge, and free from jam with foreign substances like a string, gloves, and a plastic bag.
- Equipped with an inverter, it easily controls flow rate and is able to operate both forwardly and backwardly so that it can release remains inside the pump perfectly.
- It is handy to clean inside the pump without disassembling, which makes the product compact and convenient for maintenance.
- It can idle.
- Users can use a wireless remote control for convenience. (option)
- There are various types of hoses, and users can choose the proper one depending on pumped materials.
- It is free from leakage because the sludge is carried only through the hose.



APPLICATIONS

It is suitable Pumping to Toothpaste, Shampoo, Paint, Dye, Ink, Paper mill, Oil Sludge, Grinding Stone sludge, Mortar, Pouring in Cohesion, etc.



SPECIFICATIONS

- | | | | |
|------------------------------|-------------------------|---------------------------------|---------------------|
| - Flow rate : max. 5.5ton/hr | - Exhaust : max. 50m | - Suctions : max. 9m | - Inner dia : Ø40mm |
| - Motor : 3HP(220V/380V) | - Weight : approx. 80kg | - Size (mm) : 850 x 650 x 1,170 | |



Special cartridge filter for fume dust collecting Strong collecting efficiency more than 99.98% by using specially coated filters

FEATURES

- **External joint type flexible arm hood**
Installed with external control joint, there is no air resistance inside the hood to improve dust collection efficiency and operate quietly.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air to improve dust collection efficiency.
- **Automatic stop system for protection**
If replacement or cleaning of the filter needed, it stops its operation for protection of the product and alarms a buzzer.
(After replacing the filter, it continues to operate.)
- **Automatic dedusting system after completing operation**
After completing its operation, it cleans filters automatically by Air Pulse Jet System so this system can raise dust collection efficiency and extend the filter's life span.
(Users can decide length of dedusting time.)



NFC series



WFC series

APPLICATIONS

It is suitable for welding worksite, powder work, and measuring work.



SPECIFICATIONS

Item	NFC-2000	NFC-3000	WFC-1000	WFC-2000	WFC-3000
Output Power (kw)	1.5	2.2	0.75	1.5	2.2
Air Flow (m³/min)	25	40	12	25	40
Static Pressure (mmAq)	200	200	200	200	200
Flexible Arm Hood	Ø150(2m)	Ø200(2m)	Ø150(2m)	Ø150(2m)	Ø150/200(2m)
Weight (kg)	150	160	65	85	90
Size (LxDxH,mm)	650x920x1280	900x920x1280	670x670x980	670x670x1050	670x670x1150

※ NFC series : Cartridge Filter. WFC series : 1st Demister Filter, 2nd Medium Filter, 3rd Carbon Filter

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for removal of gluey fume·gas·odor Caused by laser welding process

FEATURES

- **Protect filters and extending its life span by self-developed filtering agents**
The product is designed to spread self-developed filtering agents (zero power) to prevent gluey fume adhering to the filter, so that it reduces contamination of the filter and keep it clean. Thus, this helps extend the filter's life span.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can improve dust collection efficiency, work 24 hours a day, and help extend the filter's life span.
- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.
- **Automatic stop system for protection**
If replacement or cleaning of the filter needed, it stops its operation for protection and alarms a buzzer.
(After replacing the filter, it continues to operate.)
- **Automatic dedusting system after completing operation**
After completing its operation(Fan Motor Off), it cleans filters automatically by Air Pulse Jet System so this system can raise dust collection efficiency and extend the filter's life span.
(Users can decide length of dedusting time.)



Activated carbon filter
Remove harmful gas and odor
produced during laser working



Jet filter
Effectively dedust pollutant
stacked on the filter and easily
replaced without any tools.



Filtering agents (Zero Power)
Scatter filtering agents on the
filter to prevent gluey fume
adhering to the filter

Perfectly remove gluey fume·gas·odor Necessity of processing work with laser

APPLICATIONS

It is suitable for workplace with gluey dust such as laser welding work, laser cutting work, resin finishing work, welding, powder work, measuring work.



SPECIFICATIONS

Item	DFC-1000	DFC-2000
Output Power (kw)	0.75	1.5
Air Flow (m ³ /min)	10	20
Static Pressure (mmAq)	200	200
Filter Q'ty (EA)	4	8
Filtrating Area (m ²)	9	18
Method of Dedusting	Air Pulse Jet System	
Filtrating Agent(kg)	6	12
Inlet (mm)	125	150
Weight (kg)	200	360
Size (LxDxH,mm)	650x650x1803	1300x1300x1803

- ※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz
- ※ These specifications can be revised for improvement of quality without a notice.
- ※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.



An example of installation
in acryl cutting work

Perfectly remove exhaust gas caused in vehicle inspection·repair station

FEATURES

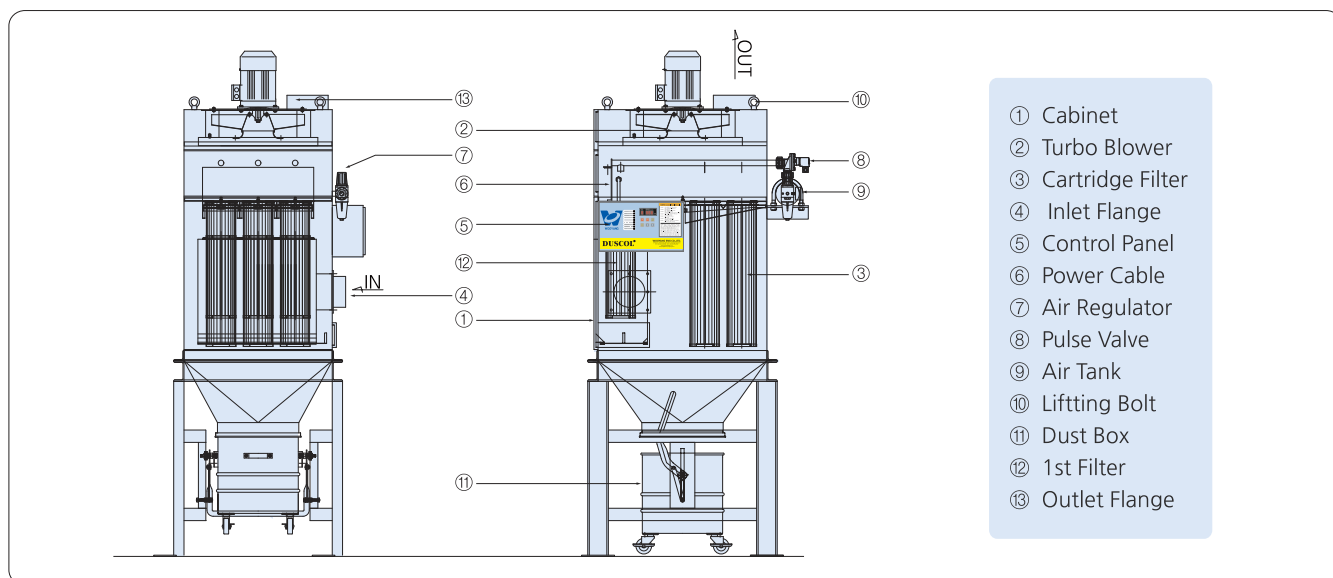
- **Two levels filter system**
The product contains a special metal filter and a cartridge filter which is capable of treating high temperature gas. Therefore, it can collect and filter exhaust gas from vehicles without fire risk.
- **Automatic filter cleaning system (Air Pulse Jet System)**
It cleans dust stacked on the filter by jetting high pressure air. Thus, it can improve dust collection efficiency, work 24 hours a day, and help extend the filter's life span.
- **Digital monitoring & Control system**
Users can conveniently monitor and control filter differential pressure, replacement period, and so on.
- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.
- **Automatic stop system for protection**
If replacement or cleaning of the filter needed, it stops its operation for protection and alarms a buzzer.
- **Simple disposal of dust**
It is designed for dust to be collected in the One touch Box at the bottom, so users can remove the dust easily without secondary contamination.



※ This product is custom-built by a customer's request.

※ In the case of explosive dust, it is recommended to consult before making an order.

Necessity of vehicle inspection·repair station that removes vehicle exhaust gas perfectly



APPLICATIONS

It is suitable for automobile inspection·repair station with exhaust gas, worksite with high temperature dust, and worksite with flame.



SPECIFICATIONS

Item	AEC-2000	AEC-3000	AEC-5000	AEC-7500	AEC-10000
Output Power (kw)	1.5	2.2	3.7	5.5	7.5
Air Flow (m ³ /min)	25	40	60	80	100
Static Pressure (mmAq)	200	200	200	230	250
1st Filter	2	3	4	6	8
2nd Filter	6	9	12	12	24
Inlet (mm)	150	200	250	250	300
Size (LxDxH,mm)	720x820x1220	800x1000x1220	900x1000x1277	900x1000x1945	900x1700x2270

※ In case of Hopper type, it adds the height of 950mm

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for removing volatile organic compounds and minimized installation space

FEATURES

- **Cost effective and high efficient collectors**
The product features compact design and large filtering area to remove organic gas and odor effectively, reduces maintenance expenses, and has convenient operating system.
- **Convenient inhalant input and maintenance**
It is designed to be able to replace activated carbon inside the filter regularly, and this method is economical because it doesn't need extra maintenance.
- **Superior deodorization ability**
It features outstanding deodorization power to the materials that cause strong odor.
 - more than 99% Ammonia
 - more than 92% Methyl Mercaptan
 - more than 83% Formaldehyde
- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.
- **Digital monitoring & Control system**
Users can conveniently monitor and control filter differential pressure, replacement period, and so on.
- **Automatic stop system for protection**
If replacement or cleaning of the filter needed, it stops its operation for protection and alarms a buzzer.
(After replacing the filter, it continues to operate.)

Absorbent can be selected
and mixed depending on material of exhaust gas.



Filter structure with large filtering area



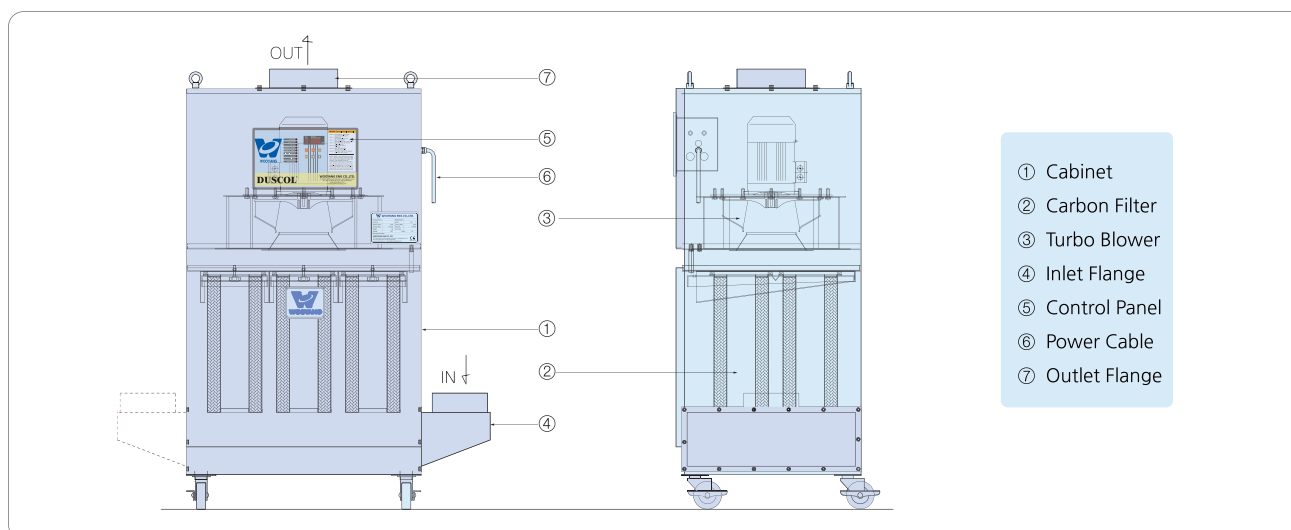
Convenient inhalant input



Large filtering area compared to its limited installation space Convenient filter management and high absorption efficiency with superior absorbent

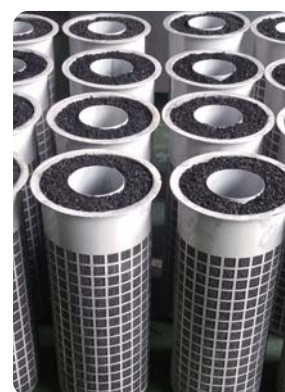
APPLICATIONS

It is suitable for disposing of volatile organic compounds(VOC'S), Ketone, Aldehyde, Ester, Organic acid, Nitrogen, Orpiment. Workplace with VOC'S, paint factory, chemical plant, feed plant, excrement treatment plant, sewage treatment plant, dryer, semi-conductor industry, electronic plant, printing factory, removing gas, painting work, cleansing work, shaping, drying, heat treatment, worksite with odor, etc.



SPECIFICATIONS

Item		PDE-2000	PDE-3000	PDE-5000
Output Power (kw)		1.5	2.2	3.7
Air Flow (m ³ /min)		25	40	60
Static Pressure (mmAq)		200	200	200
Filter	Area(m ²)	1,256	1,884	2,512
	Q'ty EA	4	6	8
Inlet (mm)		150	200	250
Weight (Kg)		330	490	590
Size (LxDxH,mm)		650x650x1495	850x770x1540	1200x900x1690



※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal to remove organic gas and odor

FEATURES

- **Cost effective and high efficient collectors**
The product features large filtering area to remove organic gas and odor effectively, reduces maintenance expenses, and has convenient operating system.
- **Convenient inhalant input and maintenance**
It is designed to be able to replace activated carbon inside the filter regularly, and this method is economical because it doesn't need extra maintenance.
- **Superior deodorization ability**
It features outstanding deodorization power to the materials that cause strong odor.
 - more than 99% Ammonia
 - more than 92% Methyl Mercaptan
 - more than 83% Formaldehyde
- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.
- **Automatic stop system for protection**
If replacement or cleaning of the filter needed, it stops its operation for protection and alarms a buzzer.
(After replacing the filter, it continues to operate.)
- **High recovery rate of organic gas, and free from waste water generation**



Small sized adsorption tower



Medium and large sized adsorption tower



Processed activated carbon
high absorption efficiency and superior to dispose of dense gas



Granular activated carbon
convenient recovery of absorbent matter and suitable for removing air pollutant

※ This product is custom-built by a customer's request.

Activated carbon facility Suitable for removing organic gas and odor

Components with high adsorption rate

Acetic Acid	Butyl Chloride	Fish Odor	Nicotine	Resin Odor
Acetic Acid Amine	Carboxyl	Food Aroma	Nitrobenzene	Sewage Odor
Acetic Acid Butyl	Butyl Chloride	Food Odor	Nitroethane	Sylene
Acetic Acid Cellulose	Cheese Odor	Fruit Odor	Nitroglycerine	Tetra Chloroethane
Acetic Acid Ethyl	Chlorobenzene	Heptane	Nitromethane	Tetrachloride Carbon
Acetic Acid Iso-propyl	Chlorobutadien	Hospital Cancer Building Odor	Nitropropane	Tetrachloride Ethylene
Acetic Acid Methyl	Chloroform	Indole	Nitrotoluene	Tetrachloride Methyl
Acetic Acid Propyl	Chloropicrin	Insecticide	Octane	Thiochsan
Acryl Metal	Cresol	Iso-propyl Alcohol	Ozone	Thiomethylamine
Acrylic Acid	Cyclohexane	Iso-propyl Ethyl	Paint Odor	Timethyl Aniline
Acrylic Acid Ethyl	Decane	Kichen Odor	Palmitin Acid	Timethyl Sulfuric Acid
Acrylic Nitrile	Drug Odor	Lactic Acid	Parathin Chlorobenzene	Tiophene
Adhesive	Essential Oil	Iodoform	Perfume	Tirepentane
Amyl Alcohol	Ethane Bichloride	Lubrication Grease	Phenol	Toluene
Amyl Ether	Ethane Dioxide	Machine Odor	Pitch	Trichloroethylene
Aniline	Ethyle Alcohol	Marker Odor	Propane Bichloride	Trichloroethane
Antiseptic	Ethylene Benzene	Methyl Ethyl Ketone	Propyl Alcohol	Urea
Benzene	Ethylene Bichloride	Methylene Chloride	Propyl Chloride	Uric Acid
Butyl Alcohol	Ethylene Chlorohydrine	Naphtha	Propyl Ethyl	Xylene
Butyl Captan	Feedstock Odor	Naphthalene	Putrefaction Odor	Kaolin

APPLICATIONS

It is suitable for disposing of volatile organic compounds(VOC'S), Ketone, Aldehyde, Ester, Organic acid, Nitrogen, Orpiment. Workplace with VOC'S, paint factory, chemical plant, feed plant, excrement treatment plant, sewage treatment plant, dryer, semi-conductor industry, electronic plant, printing factory, removing gas, painting work, cleansing work, shaping, drying, heat treatment, worksite with odor, etc



SPECIFICATIONS

Item	CAT-1025	CAT-2540	CAT-4060	CAT-6080	CAT-80100	CAT-100150
Output Power (kw)	0.75~1.5	1.5~2.2	2.2~3.7	3.7~5.5	7.5	5.5x2
Air Flow (m³/min)	10~25	25~40	40~60	60~80	80~100	100~150
Static Pressure (mmAq)	200	200	200	230	250	250
Size (LxDxH,mm)	950x750x1870	950x750x2130	1100x950x1500	1500x1100x2370	1600x1150x2650	2550x1200x2800

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Effectively collect water-soluble·water-insoluble mist

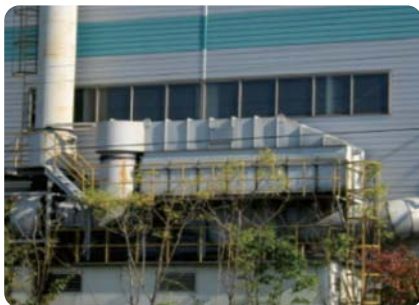
FEATURES

- **Three levels filtering system to maximize oil mist removal efficiency**
 - **Level 1 Demister** : Remove relatively bigger pollutant
 - **Level 2 VEE Bag Filter (Oil Filter)** : Filter pollutant with moisture or oil and particulates
 - **Level 3 Medium Filter** : Remove pollutant with moisture or oil as well as 99.98% of ultra-fine mist and fume
- **Centralized mist collection system**

The collectors can be established to connect to processing facilities and operated by centralized system.
- **Mist preprocessing box for mass amount of mist**

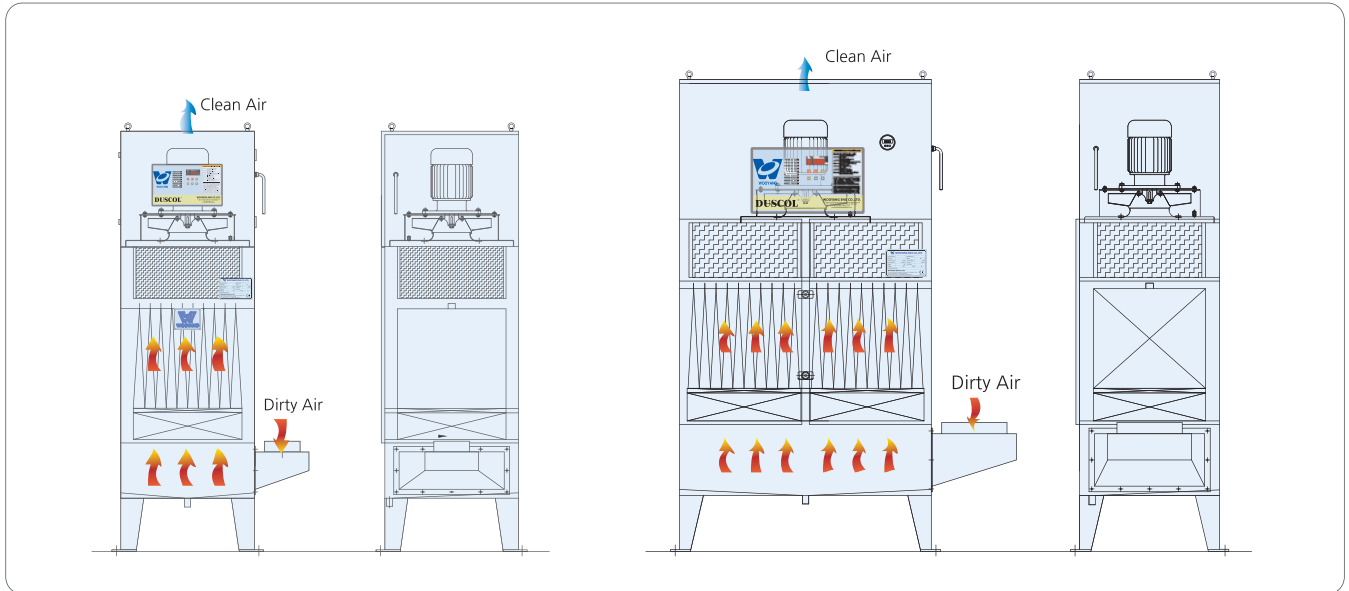
Installed with mist preprocessing box, it can control mist intake concentration to extend filter's life span.
- **Outstanding collection efficiency and oil recovery**

It collects water-soluble and water-insoluble mist highly effectively. Moreover, it inhales air including fume, separates oil from air by three level filter system, and lastly collect and recover the oil in the storage tank.



※ This product is custom-built by a customer's request.

Oil mist collectors for its exclusive use For mist produced during machinery parts processing



APPLICATIONS

It is suitable for worksite with a large amount of oil mist such as CNC lathe, milling processing, hobbing machine, polishing work, cylindrical grinder, machining center, mold spray, etc.



SPECIFICATIONS

Item	OILCOL-2000	OILCOL-3000	OILCOL-5000	OILCOL-7500	OILCOL-10000
Output Power (kw)	1.5	2.2	3.7	5.5	7.5
Air Flow (m ³ /min)	25	40	60	80	100
Static Pressure (mmAq)	200	200	200	230	250
Inlet (mm)	150	200	250	300	350
Weight (Kg)	100	130	150	210	230
Size (LxDxH,mm)	650x650x1490	770x770x1710	770x770x1710	1350x770x2090	1350x770x2090

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Oil mist collectors for its exclusive use For mist produced during machinery parts processing

FEATURES

- **Air flow of rotational collision**
The intake air rotates and collide into the filter at the inside of the product, and that the oil mist collection efficiency is maximized.
- **Maximized oil mist removal efficiency filter system**
 - 1) **Demister:** Removes contaminants of relatively large particles.
 - 2) **HEPA filter:** Removes not only contaminants containing moisture and oil, but also ultrafine ($0.3\ \mu\text{m}$) mist and fume at the minimum ratio of 99.98%.
- **Mist preprocessing box for mass amount of mist**
Installed with mist preprocessing box, it can control mist intake concentration to extend filter's life span.
- **Outstanding collection efficiency and oil recovery**
It collects water-soluble and water-insoluble mist highly effectively. Moreover, it inhales air including fume, separates oil from air by three level filter system, and lastly collect and recover the oil in the storage tank.



APPLICATIONS

These products are suitable for work sites of CNC lathe work, milled finishing, hobbing machining, pressed finishing, grinding, cylinder cutting, machining center work, mold-releasing agent spraying, where a large amount of mist or fume is created.



Medium Filter



First Filter



HEPA Filter



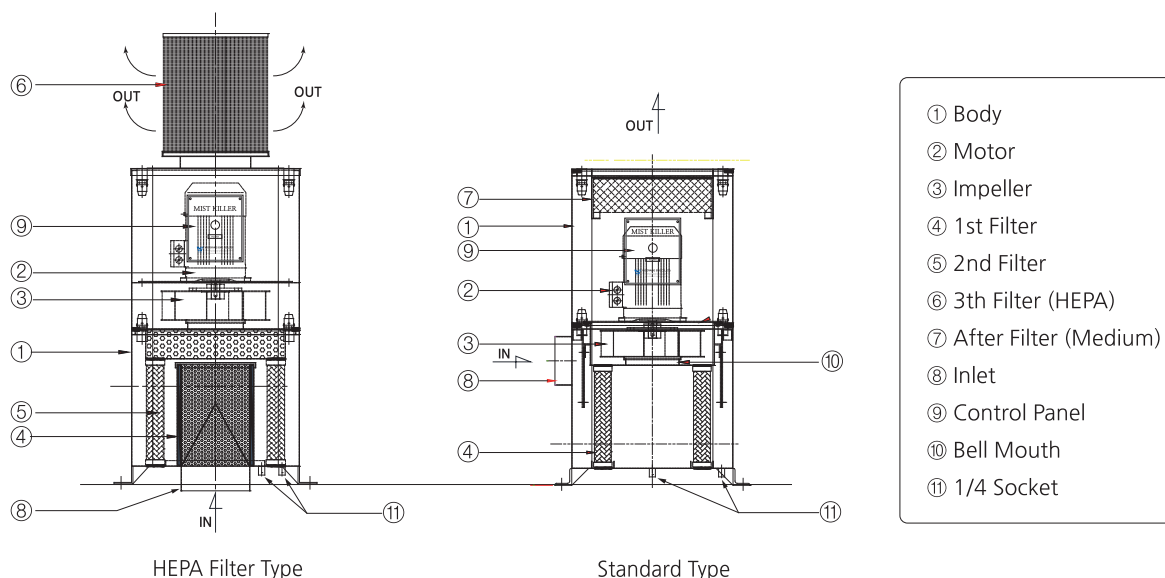
Easy maintenance



Oil Recovery



Demister & Pall ring



※ **Caution**

Do not breathe contaminants such as flammables, explosives, or sparks and do not inflow sparks or ignition sources next to this product.



SPECIFICATIONS

Model	Output Power (kw)	Air Flow(m ³ /min)		Static Pressure (mmAq)		Filter		Inlet	Weight (kg)	Size (WxDxH, mm)
		50Hz	60Hz	50Hz	60Hz	1st	2nd			
MK-1000	0.75	7	8.5	110	150	Ø300	300 x 300 x 100t	Ø125	135	410 x 410 x 760
MK-2000	1.5	13	16	110	150	Ø350	350 x 350 x 100t	Ø150	150	480 x 480 x 940

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

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※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for filtering mist·fine dust·odor·mist
Little noise·low vibration·low cost·semi-permanent operation

FEATURES

- Filter 0.01 μ m particles 95 ~ 99.5% of efficiency
(Fine dust : less than 10 μ m of diameter, Ultra-fine dust : 2.5 μ m of diameter)
- Performance with little noise and low vibration
- Semi-permanent operation by adopting washing type filter
(option : carbon mat filter)

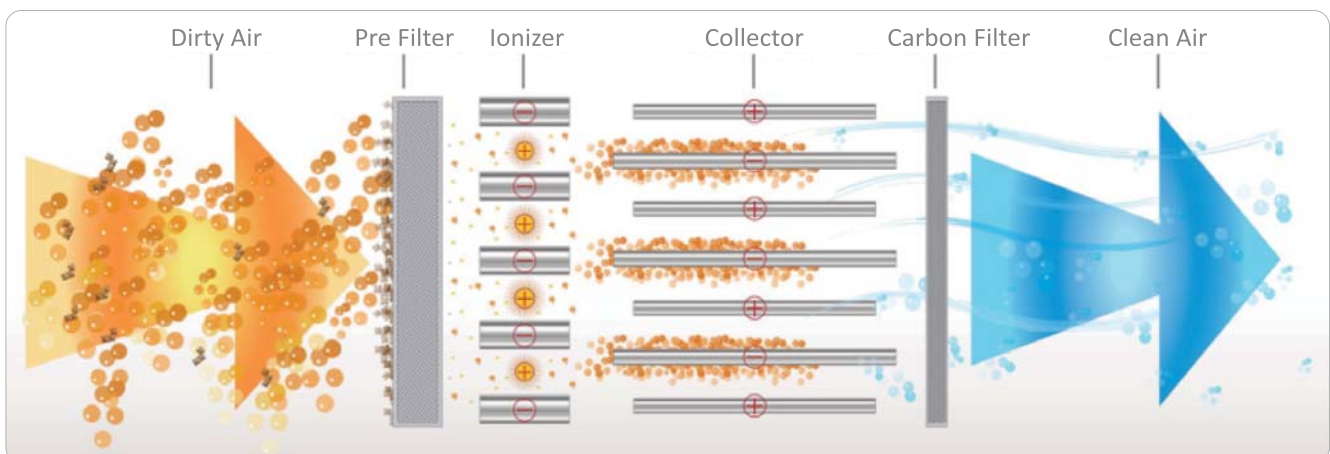
APPLICATIONS

- | | |
|-------------------------|------------------------------------|
| ● Chemical industry | ● Machine plant |
| ● Metal processing | ● Machining center |
| ● Die casting field | ● Mist-odor from charcoal broiling |
| ● Bolt, nut processing | ● Mist-odor from meat roasting |
| ● Plastic manufacturing | ● Mist-odor from cooking |
| ● Forging work | ● Mist-odor from coffee roasting |
| ● Metal heat treatment | ● Charcoal factory |
| ● Extruding work | ● Restaurant business |
| ● Surface treatment | |



MECHANISM OF STATIC ELECTRICITY FILTER

Among pollutants in air flow from outside, relatively bigger particles are collected at Pre-Filter, and fine particles are charged into positron (+). These charged fine particles are absorbed by Collector. In this way, the static electricity filter system can filter mist and fine particle which are hardly collected by other filters.



※ This product is custom-built by a customer's request.

Filtering mist·fine dust·odor·mist perfectly Semi-permanent use with washing type filter

STRUCTURER



Ionizer

This part produces high density magnetic fields to charge the fine particles included in air flow with electricity. It adopts corrosion-resistant SUS discharge plate and Spike type so that it is free from corrosion or disconnection and also highly reliable.



Collector Cell

This part collects the fine particles ionized above by the electric power of opposite pole. During collection, liquid particles flow downward by gravity.



SPECIFICATIONS

Item	WEP-15H	WEP-30HD	WEP-45HD	WEP-60HD	WEP-90HD	WEP-120HD
Power (kw)	0.75	0.75	2.2	2.2	3.7	3.7
Air Flow (m ³ /min)	30	30	45	60	90	120
Static Pressure (mmAq)	20	30	35	40	60	80
Filter Q'ty (set)	1	2	3	4	6	8
Inlet (mm)	200	250	300	400	450	500
Outlet(mm)	250	300	350	450	500	550
Weight(kg)	75	95	110	150	180	200
Size (LxDxH,mm)	860X630X810	1150X630X810	2450x630x810	1875x1075x810	5460x1075x810	2400x1075x1270

※ Input Power : 220V 50/60Hz, 220V/380V 3Ø 50/60Hz, Output Power(High Voltage) : HV 10~20kv, LH 5~6kv, Current 5mA

※ These specifications can be revised for improvement of quality without a notice.

※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal to remove pollutant caused in soldering work and experiment

FEATURES

- **Three levels filter system**
The product perfectly collects and filters dust, mist, and odor. (PRE, HEPA, Carbon Filter)
- **Operation with little noise**
Equipped with low noise blower, it performs quietly and with low vibration.
- **Convenient control of air rate**
Users can easily control air rate by Motor Speed Controller.
- **Mini sized design**
It features so compact design that it can be installed on the working table, and also high mobility to increase space efficiency.
- **Perfectly remove fine dust**
It can dispose of 99.98% of bigger than 0.3 μ m particles.

APPLICATIONS

It is suitable for worksite such as soldering work, laser marking, chemical/pharmaceutical laboratory, jewelry processing, pharmaceutical industry, carving work, etc.

SPECIFICATIONS

Item	NSC-100	NSC-125
Output Power (kw)	100	125
Air Flow (m ³ /min)	5	10
Weight (Kg)	13	20
Size (LxDxH,mm)	350x350x410	350x350x410

※ Input Power : 220V, 380V, 440V / 3 ϕ / 50Hz

※ These specifications can be revised for improvement of quality without a notice.



NSC-100



NSC-125



Superior suction force



Three levels filtering system



Convenient installation and mobility & Space efficiency

Dust collector combined with grinder, immediately collecting dust to prevent scattering

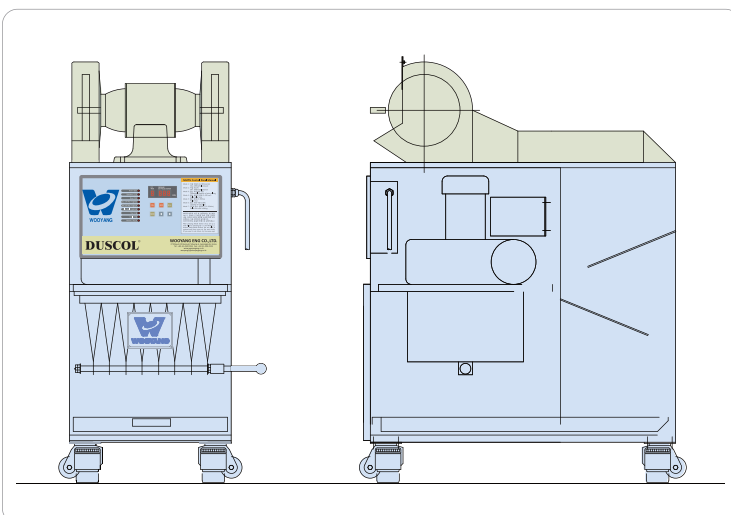
FEATURES

- **Combination with double-headed grinder and dust collector**
The product is designed to combine double-headed grinder with dust collector so that it cleanly collects dust to prevent scattering.
- **Installation of Baffle Plate to prevent flame**
The vortex is caused in the water tank by air flow based on suction force of the blower. Thus, there is no necessity of extra pump.
- **Simultaneous operation of grinder motor and collector motor**
Users can conveniently use by ON/OFF switch that makes grinder motor and collector motor operate simultaneously.
- **Digital monitoring & Control system**
Users can easily monitor and control filter differential pressure and replacement period so that use conveniently and safely.
- **High efficiency turbo fan based on the design for its exclusive use**
Equipped with high efficiency and durable turbo fan, this machine has powerful suction force with reliability, and performs quietly.



APPLICATIONS

- Grinding work



SPECIFICATIONS

Item	WGC-500
Motor (HP)	0.5
Air Flow (m ³ /min)	7
Static Pressure (mmAq)	230
Grinding Wheel	Ø220 x 20t
Method of Dedusting	Lever Handle
Power	220V 60Hz
Size(LxDxH,mm)	460x850x780

※ These specifications can be revised for improvement of quality without a notice.

Convenient mobility with ultralight weight · High dust collection efficiency Optimal for industrial and medical use

FEATURES

- **Multi-level filter system**
The product can dispose of 99.97% of bigger than $0.3\mu\text{m}$ particles.
- **Convenient mobility and space efficiency**
It features easy mobility with ultralight weight of 38kg and wheels.
- **High efficiency turbo fan with low noise**
Equipped with high efficiency turbo fan, this machine has powerful suction force with low noise.



APPLICATIONS

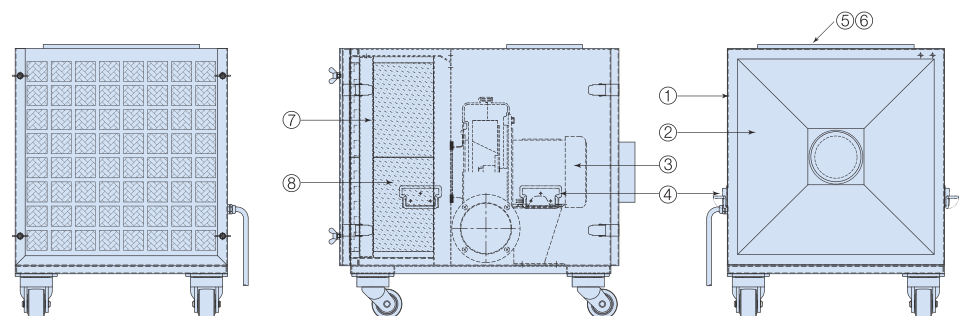
- Elimination of bacteria in the patient room
- Asbestos demolition work, and remodeling work

SPECIFICATIONS

Item	NPM-20
Output Power (kw)	0.4
Air Flow (m^3/min)	20
Static Pressure (mmAq)	170
Filter (1st)	Pre Filter
Filter (2nd)	HEPA Filter
Input Power	220V 60Hz
Weight(kg)	38
Size (LxDxH,mm)	530x620x675

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.



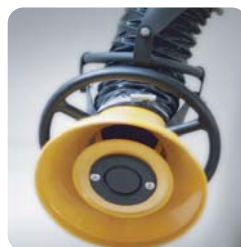
- ① Cabinet
- ② Inlet Cover
- ③ Turbo Blower
- ④ Handle
- ⑤ Display Panel
- ⑥ Manometer
- ⑦ Pre Filter
- ⑧ HEPA Filter

No air resistance with external control joint
Low noise and free from foreign particles stacked

Hood capable of controlling turbulent flow resistance



Standing Type



Hanging Type



Stainless Steel (option)



Polyethylens (option)



SPECIFICATIONS

(unit : mm)

Item	WFA-7515	WFA-7120	WFA-1015	WFA-1020	WFA-1220	WFA-1230	WFA-1520	WFA-1530	WFA-2220	WFA-2230
Arm Length	1500	2000	1500	2000	2000	3000	2000	3000	2000	3000
Arm Diameter	75	75	100	100	125	125	150	150	200	200
Hood Diameter	160	160	200	200	250	250	315	315	350	350

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※ These specifications describe standard products, but all customized dust collectors are available for customers' needs.

Optimal for factory·building with large space Centralized vacuum cleaning system

FEATURES

- **Convenient and simple cleaning**
Users don't need to carry a heavy cleaner but conveniently use cleaning hose.
- **Continuous operation for long hours**
Automatic filter cleaning system (Air Pulse Jet System) cleans dust stacked on the filter by jetting high pressure air to improve dust collection efficiency, and it can work 24 hours a day and extend the filter's life span.
- **Clean and sanitary environment**
Cleaning facility is installed apart from workers, so it removes possibility of contamination by dust during cleaning.
- **Adoption of inverter control system**
Equipped with micro switch at each intake hole, vacuum blower ensures necessary rotation frequency and reliable suction force in the range of maximum number of intake hole.



APPLICATIONS

- Food factory, pharmaceutical factory, electric factory, and semiconductor factory which need sanitation.
- Building, office, and factory with large cleaning space.
- Steel factory, cement factory, foundry with mass amount of pollutant.
- Workplace with a large amount of chip dust.

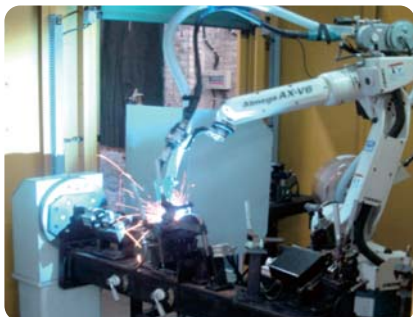


Suction of
stone·iron powder

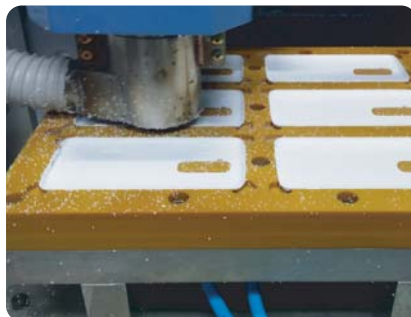


Hose reel

※ This product is custom-built by a customer's request.



Robot welding machine

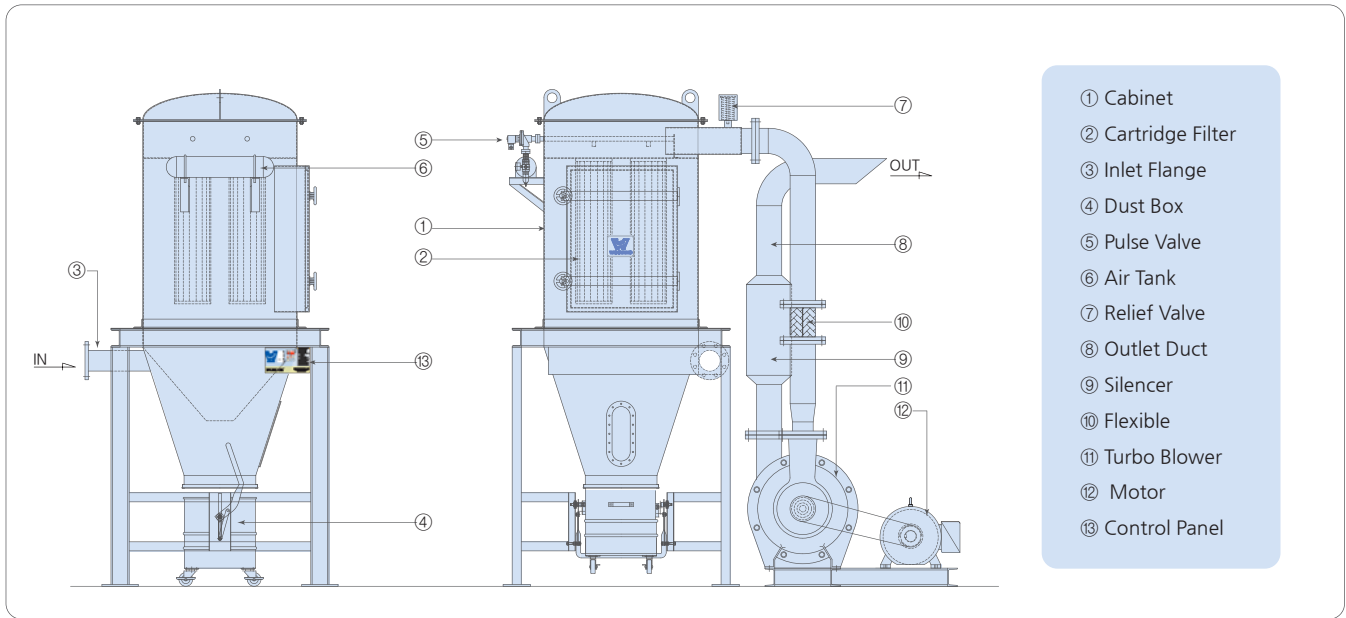


Cell phone case



Factory cleaning system

Customized design for the environment of workplace Conveniently use of special cleaning system



- ◎ Convenient and simple cleaning
- ◎ Continuous operation for long hours
- ◎ Clean and sanitary environment
- ◎ Adoption of inverter control system



※ This product is custom-built by a customer's request.

Necessity of sanding·polishing work, mini vacuum dust collectors!

FEATURES

- **Powerful suction force & Low consumption power**
Equipped with high-intermediate pressure turbo fan, the product features superior suction force and low power consumption.
- **Convenient management of filter**
Users can easily dedust by Shaking Lever, and replace a filter handily.
- **Adoption of cooling system**
It prevents generating heat by self cooling system.
- **Speed control function**
It includes a controller that can control air rate.
- **Cleaner function**
It can serve as a vacuum cleaner by connecting to a cleaner.
(effective to clean fine dust)



for polishing work



for cleaning work

APPLICATIONS



Polishing work before automobile painting



Cleaning fine dust

SPECIFICATIONS

Item	WSD-1350
Motor (W)	1350
Air Flow (m ³ /min)	2.5
Static Pressure (mmAq)	2400
Filter Material	3D Porex
Inlet (mm)	25
Method of Dedusting	Lever Handle
Weight (Kg)	50
Size (LxDxH,mm)	400 x 530 x 730

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.

Dust collector combined with grinder, immediately collecting dust to prevent scattering

FEATURES

- It can perfectly dispose of 99.98% of bigger than $0.3\mu\text{m}$ particles.
- First filter can be managed conveniently because of its pocket type.
- It is designed to operate with low noise.
- It includes Motor Speed Controller that can control air rate.

APPLICATIONS

- Jewelry polishing
- Dentistry & Dental laboratory
- Producing pharmaceutical & Pharmaceutical laboratory
- Worksite with a small amount of dust



SPECIFICATIONS

Item	GDC-1350
Output Power (kw)	1350
Air Flow (m ³ /min)	2.5
Weight (Kg)	20
Size (LxDxH,mm)	400 x 570 x 450

※ Input Power : 220V, 380V, 440V / 3Ø / 50Hz

※ These specifications can be revised for improvement of quality without a notice.



Clean Environment Good Health for Humans



Specialized in Customized Dust Collectors



- Reliability and quality recognized in domestic and overseas.
- Capability of technology development demonstrated by 20 patents.
- Competitive products of the quality, reliability, variety and service.
- Environmental construction enterprise registered (#122).



**As an enterprise
considering environment**

A specialist of Environmental Equipments



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