Dust Collector

PRODUCT CATALOG

Clean Air Tech

www.cleanat.com

The company that regards customer impression as the best value

Clean Air Tech Co., Ltd. has been established with a great ambition to contribute to the formation of a clean and safe working environment by producing the best dust collector under the philosophy that “Clean and safe dust-free working environments are the foundation for individual health and stability of society.”

As a result of having strived for differentiated service in customer impression in addition to incessant rsearch to produce the best dust collector based on such a philosophy of establishment, Clean Air Tech was able to become a competitive company among many companies that were preoccupying the market.

At present, Clean Air Tech is exporting more than 100 diverse products to Europe, Japan, China, Southeast Asia, and Russia by developing independent technologies such as ultra nano filters and high efficiency filter dust removal devices, and has about 40 certifications such as patents, utility models, registration of designs, CE certifications and ISO certifications.

Clean Air Tech promises to continue giving its utmost effort into giving customer impression that exceeds customer satisfaction through precise designing, strict quality control and thorough follow-up service, and to make more efforts in becoming more than the best in Korea; the world’s best environmental equipment manufacturer.

Clean Air Tech

CONTENTS

Company History

2002
- **Oct.** Clean Air Tech was established

2003
- **Nov.** Concluded an agency agreement for Malaysian market with Cleanair Pollution Control & Engineering Co., Ltd.
- **Oct.** Completed the development of a workbench-integrated dust collector
- **Jul.** Completed the development of an odor and organic solvent dust collector
- **Jan.** Concluded an agency agreement for Chinese market with Shanghai Changjin Environment Conservation Science and Technology Co., Ltd.

2004
- **Sep.** Completed the development of a miniature dust collector
- **May.** Completed the development of a dual filter for dust collector
- **Apr.** The head office and the factory were moved to an expanded facility

2005
- **Dec.** Completed the development of an air pulse type welding fume dust collector
- **Sep.** Completed the development of an arm hood for dust collector
- **Sep.** Completed the development of an electric dust collector
- **Sep.** The company was converted into a corporation (Clean Air Tech Co., Ltd.)
- **Sep.** Acquired ISO 9001 certification
- **Jan.** Concluded an agency agreement for Thailand market with M.E.C Asia Pacific, Co., Ltd.

2006
- **Dec.** Completed the development of a filter attaching / detaching device
- **Jul.** Designated as a company of superior quality product by Incheon Metropolitan City
- **Jul.** Acquired ISO 14001 certification
- **Jan.** Completed the development of asbestos collector and mobile (back filter) dust collector

2007
- **Oct.** Won an award of superior small/medium company (Incheon Regional Small and Medium Business Administration)
- **Jul.** Completed the development of cylinder type sub-miniature dust collectors
- **Jun.** Acquired a patent for the arm hood structure for dust collectors
- **Jun.** Acquired Europe Quality CE certification
- **May** Acquired INNO-BIZ certification

2008
- **Dec.** Won an award of superior export businessman (Chamber of Commerce and Industry)
- **Nov.** Completed the development of KF-200 in which a nano filter is mounted for the first time in Korea
- **Oct.** Won the award of the best image in the Korea Small / Medium Company Superior Product Exhibition
- **Oct.** Started construction of the company building in Gimpo-si

2009
- **Dec.** The construction of the head office and factory in Gimpo was completed (Yangchon Industrial Complex, Gimpo-si, Gyeonggi-do)
- **Sep.** Completed the development of cylinder type sub-miniature dust collectors
- **Sep.** Completed introduction of the ERP system
- **Aug.** Completed the development of dust collectors for partial painting of automobiles
- **Jul.** Won an award for proud businessman from Incheon Metropolitan City
- **Jul.** Selected as a promising small/medium company by Incheon Metropolitan City
- **Jun.** Selected as a commodity recommended by the Small and Medium Business Administration and the Small Business Distribution Center (KF-200)
- **Jun.** Air pollution prevention facility business was added to the registration
- **Apr.** Completed the development of an ultra light asbestos collector CND-50
- **Feb.** Won an award of the director of Incheon Metropolitan City Business Agency

2010
- **Nov.** Introduced as a hopeful company by Korea Work Tv
- **Oct.** Introduced in the 'Small/medium company, the power of Korea' broadcasted by SBS
- **Jun.** Completed the development of a cyclone dust collector for carpentry
- **Apr.** Acquired a patent for a dust collector of which the dust in the filter is easily removable
- **Jan.** The head office and the factor moved to the newly constructed building in Gimpo

2011
- **Dec.** Received a citation of superior company from Incheon Employers Federation
- **Dec.** Received a citation of exemplary company from a member of the National Assembly (Yoo Jeong-bok)
- **Apr.** Received a citation from Gimpo-si Office on the day of commerce and industry
- **Apr.** Concluded an export contract with Tehnion, Russia
- **Mar.** Received a citation from the director of Incheon Metropolitan City Business Agency
- **Jan.** Established Clean Air Tech company research center

2012
- **Dec.** Selected as a promising small / medium company by Gyeonggi-do
- **Oct.** Held the 10th foundation anniversary ceremony
- **Jun.** Completed the development of an ultra nano filter
- **Apr.** Concluded the export contract for Indian Exhaust System Plant with POSCO

2013
- **Dec.** Won an award from the administrator of Gyeonggi Regional Small and Medium Business Administration
- **Oct.** Selected as a 'Small and Strong Company' by the Ministry of Employment and Labor
- **Sep.** Selected as 'a company people want to work for' by INNOBIZ
- **Aug.** Registered as a sub-contractor for POSCO ICT
- **Aug.** Concluded a R&D agreement with Ulsan Port Authority
- **May** An article introducing Clean Air Tech was put on Maeil Business Newspaper
- **Apr.** Registered as a specialized construction company
- **Mar.** An article about nano coating filter was put on Maeil Business Newspaper
- **Feb.** Introduced in the industrial ventilation course material of Inje University
- **Jan.** Acquired CE certification for the nano filter dust collector CAPU

2014
- **Aug.** Successfully completed the development of 'Green Hopper', the loading and unloading equipment of Ulsan Port Authority
- **Jun.** Registered the utility model of a high efficiency mobile dust collector
- **Apr.** Successfully completed the development of a module type smart dust collector
- **Mar.** Started the MBC and KBS radio advertisements

Global Recognition

Certification and Award-Winning History

- **Dec.** 2013 Award of the Administrator of Gyeonggi Regional Small and Medium Business Administration
- **Jan.** 2013 CE certification for CAPU
- **Dec.** 2012 Promising small/medium company by Gyeonggi-do
- **Apr.** 2011 Trade mark registration certificate
- **Apr.** 2011 Citation from Gimpo-si Office on the day of commerce and industry
- **Mar.** 2011 Citation from the director of Incheon Metropolitan City Business Agency
- **Dec.** 2010 Citation from Small & Medium Business Corporation
- **Jul.** 2009 Promising small/medium company by Incheon Metropolitan City
- **Jun.** 2009 Award of proud businessman from Incheon Metropolitan City
- **Jun.** 2009 Air pollution prevention business was added to the registration
- **Feb.** 2009 Award from the Director of Incheon Metropolitan City Business Agency
- **Dec.** 2008 Award of superior export businessman (Chamber of Commerce and Industry)
- **Mar.** 2008 Direct production certificate from the Korea Federation of SMEs (item: filter)
- **Oct.** 2007 Award of superior small/medium businessman (Incheon Small and Medium Business Administration)
- **Jun.** 2007 Europe Quality CE certification
- **May.** 2007 INNO-BIZ certification
- **Mar.** 2007 Certificate of department exclusively in charge of research and development (Korea Industrial Technology Association)
- **Jul.** 2006 Appointment of recommended superior quality product (item: industrial dust collector)
- **Jul.** 2006 ISO 14001 certification
- **Sep.** 2004 ISO 9001 certification

Patent

- **Apr.** 2010 [No. 10-0955252] Dust collector of which the dust in the filter is easily removable.
- **Jun.** 2007 [No. 10-0731265] Arm hood structure for dust collectors

Utility Model

- **Jun.** 2014 [No. 20-0473251] Mobile dust collector which has convenience in filter replacement and efficiency
- **May.** 2006 [No. 20-0419229] Filter case attaching/detaching device for dust collectors
- **Aug.** 2004 [No. 0359044] Dual filter for dust collector
- **Jan.** 2004 [No. 0341505] Dust collector for odor removal
- **Oct.** 2003 [No. 0331097] Dust collector with a workbench
- **Mar.** 2003 [No. 0310134] Indoor dust collector of which the filter can be easily replaced
- **Mar.** 2003 [No. 0310133] Dust collector which can be also used as a workbench for one person with adjustable work space
- **Mar.** 2003 [No. 0310132] Mobile dust collector of which the filter can be easily replaced
- **Mar.** 2003 [No. 0310131] Dust collector that can also be used as a workbench with a easily replaceable filter

Design Registration

- **Jan.** 2005 [No. 0372918] Grinder-integrated dust collector
- **Jan.** 2005 [No. 0372917] Indoor dust collector
- **Oct.** 2004 [No. 0364329] Dust collector for odor and smoke removal
- **Jun.** 2004 [No. 0354980] Workbench dust collector
- **Feb.** 2004 [No. 0345041] Workbench dust collector
- **Feb.** 2004 [No. 0345040] Workbench dust collector
- **Feb.** 2004 [No. 0345039] Dust collector
- **Feb.** 2004 [No. 0345038] Dust collector
- **Feb.** 2004 [No. 0345038-2] Dust collector
- **Feb.** 2004 [No. 0345038-1] Dust collector

Design Registration

- **Aug.** 2007 [No. 30-0458906] Cylinder type subminiature dust collector
- **Apr.** 2006 [No. 30-0411897] Dust collector
- **Jul.** 2005 [No. 0388144] Oil mist dust collector
- **Jul.** 2005 [No. 0388141] Indoor dust collector

CAPM-Series

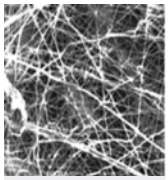
Smart Nano Dust Collector : Laser & Plasma Fume / Fine Dust Removal

CAPM-616

CAPM-828

What is nano fiber?

Nano fiber is ultra-fine fiber of which the diameter is one-hundred-thousandth of a hair diameter. It is attracting attention in the garment industry as the next generation fiber material to replace Goretex, and is used as a protective material and for functional cloths. When nano fiber is coated on a filter, it can remove very minute particles down to 0.3μm (1μm = 0.001 mm), and the life of the filter is lengthened by about two folds.


3000fold picture

Microscope picture


Test report

Product Introduction

It is the main dust collector of Clean Air Tech Co., Ltd., which uses the descending air current method. It can remove:

1. a large volume of fume (smoke) generated during processing of acryl, steel and stainless steel using laser or plasma; and
2. a large volume of dust generated from polishing, pulverizing, drilling, cutting and grinding works.

The capacity can be increased by adding modules.

Main Features

Dust collector of descending air current method

- It is a descending air current method dust collector where the contaminants are absorbed from top to bottom and the filter is mounted crosswise.
- The dust collected is not re-scattered by ascending air current due to the structure of descending air current method, and the life of the filter is lengthened as the dust which has fallen off from the filter surface does not ·adhere to the filter again when the filter is air pulsed during the operation of the dust collector.

Equipped with an ultra nano filter

- It is equipped with an ultra nano filter of which the surface is coated with nanofiber.
- Ultra nano filter has a high filtering efficiency (99.1% @0.3μm) and its service life is longer than that of the generally used polyester filter by about two times.
- Ultra nano filter can remove not only minute dust but also adhesive fume.

Analog differential pressure gauge made in germany

- Being equipped with an analog differential pressure gauge made by Afriso, a world class German manufacturer specialized in measuring instruments, it has little minor trouble and can make precise measurements.
- The differential pressure gauge informs the time to clean it and replace it by grasping the degree of clogging.

High efficiency turbo fan

- As a high efficiency turbo fan with an excellent durability is used, it exercises stable and superior absorptive power.
- Vibration and noise have been reduced through ultra-precision electronic balancing treatment.

Sturdy structure that allows convenient maintenance

- It has little minor trouble as all the parts which may be affected by pollutants have been externally mounted.
- It is convenient as the filter can be individually replaced from outside without using a separate tool.
- The pollutants collected are heaped up in a separate dust box and can be easily thrown away.

Upgradable structure

- When building additional manufacturing equipment later, the capacity of the dust collector can be increased by adding modules to the existing dust collector.

Others

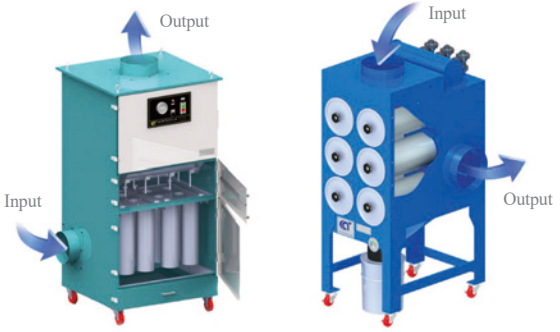
- It can be conveniently moved as it is equipped with casters. (It will be fixed after being installed.)
- The inlet can be mounted either on the left or right side.

Options

- Flame blocking device : A device that prevents a fire caused by flame
- Flexible conduits are used.
- Measurement hole and measurement workbench, watt-hour meter
- Alternative power specifications : 220V / 380V / 440V, single phase / three ·phases, 50Hz / 60Hz

Structure and Specification

Model	Air flow (㎥/min)	Static pressure (mmAq)	Motor (Kw)	Filter		Inlet
				Filtration area (㎡)	Quantity	
CAPM-612	25	230	1.5	12	2	150
CAPM-614	40	230	2.2	24	4	200
CAPM-614	60	230	3.7	24	4	250
CAPM-616	80	250	5.5	36	6	300
CAPM-818	100	250	7.5	48	8	350
CAPM-626	150	250	11	72	12	300 X 2EA
CAPM-828	200	250	15	96	16	350 X 2EA



Existing Air Pulse Dust Collector Smart Nano Dust Collector

Comparison 80CMM

Smart Nano Dust Collector Existing Bag Filter Dust Collector

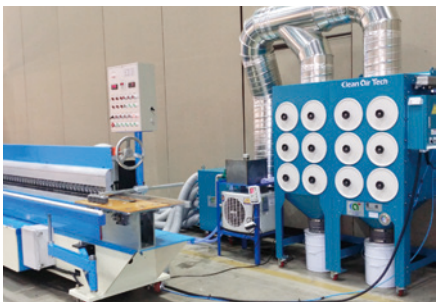
Comparison 800CMM

Cautions

· An air compressor is required as the filter is cleaned using compressed air.
· As to the dust with a risk of explosion such as aluminum, titan, and epoxy, an inquiry should be sent for separate consultation.
· In the case flame is sucked together with pollutants, a [Flame Blocking Device] should be installed.
· It is not suitable for the dust with moisture or oil content.








CAPU-Series

Air Pulse Dust Collector : Laser & Plasma Fume / Fine Dust Removal

Ultra nano filter

CAPU-300

Hopper
dust discharge

Rotary valve

Butterfly valve

CAPU-2000 (Non-standard, Hopper, Rotay valve)

CAPU-300OT
(One touch deatchable type)

CAPU-200BIN
(Binvent type)

Product Introduction

It is a dust collector which uses the ascending air current method. It can remove:
1. a large volume of fume (smoke) generated during processing of acryl, steel and stainless steel using laser or plasma; and
2. a large volume of dust generated from polishing, pulverizing, drilling, cutting and grinding works.

It can be customized in diverse forms when requested.

Main Features

Dust collector for which a CE certification has been acquired
- A product for which a CE certification conforming to European standard conditions has been acquired
  ※ Relevant models : CAPU-200 / 300 / 500 / 750 / 1000

Equipped with an ultra nano filter
- It is equipped with an ultra nano filter of which the surface is coated with nano fiber.
- Ultra nano filter has a high filtering efficiency (99.1% @0.3μm) and its service life is longer than that of the generally used polyester filter by about two folds.
- Ultra nano filter can remove not only minute dust but also adhesive fume.

Air Pulse Jet
- The filter is cleaned using the air pulse device.
  (The compressed air stored in the air tank is sprayed at a fixed interval.)
- The filter can be cleaned while the dust collector is in operation.
- There is a device that increases the efficiency while the filter is cleaned.

Analog differential pressure gauge made in germany
- Being equipped with an analog differential pressure gauge made by Afriso, a world class German manufacturer specialized in measuring instruments, it has little minor trouble and can make precise measurements.
- The differential pressure gauge informs the time to clean it and replace it by grasping the degree of clogging.

High efficiency turbo fan
- As a high efficiency turbo fan with an excellent durability is used, it exercises stable and superior absorptive power.
- Vibration and noise have been reduced through ultra-precision electronic balancing treatment.

Disposal of the dust collected
- When the filter is cleaned, the dust purged is collected at the bottom, which shall be disposed in the following method:

1. Drawer type (basic) : A drawer type dust box
2. One-touch separation type dust box (option) : A one-touch separation type dust box with casters
3. Hopper type (option) : A dust disposal device of hopper form (It is suitable for disposal of a large volume of dust, and the dust collector gets higher.

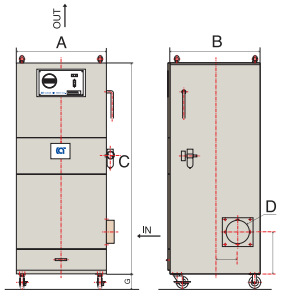
Others
- It can be conveniently moved as it is equipped with casters.
  (It will be fixed after being installed.)
- The inlet can be mounted either on the left or right side.

Options

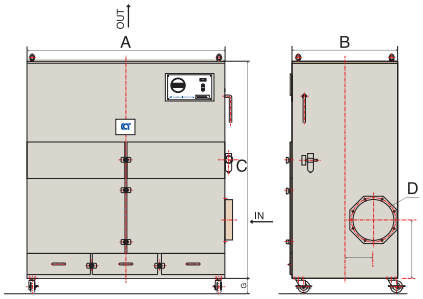
- GDC-TEX filter : A filter coated with fluorine resin
- Explosion-proof type : Explosion-proof design and application of a safety device against explosion
- Bin vent type : A form applicable to a silo
- Flame blocking device : A device that prevents a fire caused by flame
- Alternative dust disposal methods : One-touch separation type dust box, or hopper (equipped with a rotary valve or a butterfly valve)
- Flexible conduits are used.
- Measurement hole and measurement workbench, watt-hour meter
- Alternative power specifications : 220V / 380V / 440V, single phase / three phases, 50Hz / 60Hz

Structure and Specification

Model	Air flow (㎥/min)	Static pressure (mmAq)	Motor (Kw)	Filter		Size					Dust box (ℓ)	Weight (Kg)
				Quantity	Filtration area (㎡)	A	B	C	D (Inlet)	Outlet		
CAPU-100	12	200	0.75	6	6.75	650	650	1,385	Ø125	Ø150	22	160
CAPU-200	25	230	1.5	6	11.2	650	650	1,655	Ø150	Ø200	22	178
CAPU-300	40	230	2.2	9	16.9	770	770	1,705	Ø200	Ø250	31	224
CAPU-500	60	230	3.7	12	22.5	900	850	1,775	Ø250	Ø300	41	280
CAPU-750	80	250	5.5	18	33.8	1,360	900	1,865	Ø300	Ø350	84	490
CAPU-1000	100	250	7.5	24	45	1,800	900	1,925	Ø350	Ø400	105	580
CAPU-1500	160	250	11	24	72	1,800	900	2,145	Ø400	Ø450	105	713
CAPU-2000	200	250	15	24	87.36	2,000	900	2,165	Ø450	Ø500	118	800



CAPU 100~500



CAPU 750~2000

※ Filter: Ultra nano filter
※ Filter specification:
CAPU-100 (Φ145 x 300 ℓ x 75th)
CAPU-200 ~ 1000 (Φ145 x 500 ℓ x 75th)
CAPU-1500 (Φ145 x 800 ℓ x 75th)
CAPU-2000 (Φ165 x 800 ℓ x 65th)
※ The height of the caster is excluded.

Cautions

· An air compressor is required as the filter is cleaned using compressed air.
· For the dust with a risk of explosion such as aluminum, titan and epoxy, please place the order as an [Explosion-proof Type].
· In the case flame is sucked together with pollutants, a [Flame Blocking Device] should be installed.
· It is not suitable for the dust with moisture or oil content.

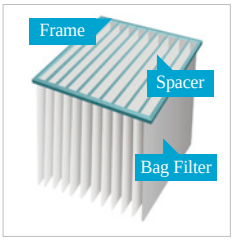





CPF-Series

Bag Filter Dust Collector : Dry Dust Removal

Bag Filter Set



CPF-200

CPF-750

CPF-50

CPF-300OT (One touch deatchable type)

Product Introduction

It is an ascending air current method dust collector, which can remove the dust of relatively big and dry particles generated by polishing, pulverizing, drilling, tailoring, crushing, powder injection, sealing, shearing, cutting, grinding and mixing. It is widely used as it has little minor trouble thanks to its simple structure and has good performance in comparison to its price.

Main Features

Equipped with a bag filter

· It is equipped with a bag filter of which the filtering area has been widened to the maximum by processing polyester fiber into a rectangular plane.
· The service life of bag filter is relatively long as it does not easily wear out and has a high tensile strength.
· A bag filter is suitable for removal of the dry dust of about flour particle size (1~100μm)
· A bag filter of which the life has come to an end can be easily replaced using a one-touch attachment/detachment device. (A utility model is applied.)

Method where the filter is manually cleaned

· No air compressor is required as the filter is cleaned by manually shaking a cleaning rod.

High efficiency turbo fan

· As a high efficiency turbo fan with an excellent durability is used, it exercises stable and superior absorptive power.
· Vibration and noise have been reduced through ultra-precision electronic balancing treatment.

Disposal of the dust collected

· When the filter is cleaned, the dust purged is collected at the bottom, which shall be disposed in the following method:
1. Drawer type (basic) : A drawer type dust box
2. One-touch separation type dust box (option) : A one-touch separation type dust box with casters

Analog differential pressure gauge made in germany (option)

· Being equipped with an analog differential pressure gauge made by Afriso, a world class German manufacturer specialized in measuring instruments, it has little minor trouble and can make precise measurements.
· The differential pressure gauge informs the time to clean it and replace it by grasping the degree of clogging.

Others

· It can be conveniently moved as it is equipped with casters. (It will be fixed after being installed.)
· The inlet can be mounted either on the left or right side.

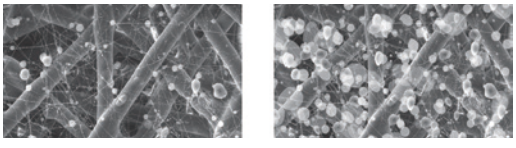
Options

· Anti-static/water repellant-coated bag filter : Water repellant and anti-static functions have been added.
· Rubber coated bag filter (3D POLEX) : Suitable for fine dust
· Explosion-proof type : Explosion-proof design and application of a safety device against explosion
· Flame blocking device : A device that prevents a fire caused by flame
· One-touch separation type dust box
· Flexible conduits are used.
· Measurement hole and measurement workbench, watt-hour meter
· Analog differential pressure gauge made in Germany
· Alternative power specifications : 220V / 380V / 440V, single phase / three ·phases, 50Hz / 60Hz

tip!

Filtering efficiency and absorptive power

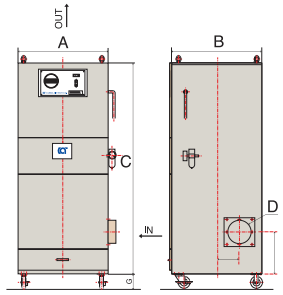
The longer a filter is used, the more it becomes able to remove more minute dust. It is because the dust layer piled up on the surface of the filter as it is used enhances the filtering efficiency. But, it impoverishes the absorptive power by increasing the resistance to air flow as time passes by. At this time, the air flow can be improved by cleaning the filter, which allows it to have better filtering efficiency than a new filter as the residual dust layer provides additional filtering surface area. If the absorptive power is not improved even after the filter is cleaned or if the filter is damaged, the filter should be replaced with a new one.



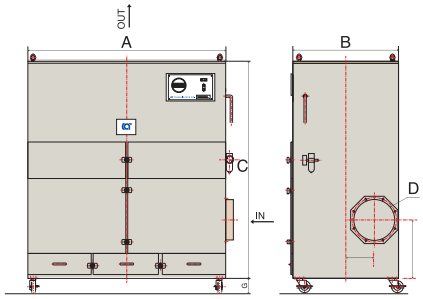
[As a dust layer is formed, fine dust becomes unable to penetrate through the filter]

Structure and Specification

Model	Air flow (㎥/min)	Static pressure (mmAq)	Motor (Kw)	Filter		Size					Dust box (ℓ)	Weight (Kg)
				Pocket Q'ty	Filtration area (㎡)	A	B	C	D (Inlet)	Outlet		
CPF-50	7	230	0.75	8	1.36	450	530	800	Ø100	Ø125	10	77
CPF-100	12	200	0.75	7	3.5	550	550	1,380	Ø125	Ø150	15	106
CPF-200	25	230	1.5	14	6.72	620	620	1,480	Ø150	Ø200	18	140
CPF-300	40	230	2.2	15	11.55	780	760	1,630	Ø200	Ø250	30	195
CPF-500	60	230	3.7	20	15.4	780	760	1,700	Ø250	Ø300	30	220
CPF-750	80	250	5.5	30	23.1	1,500	800	1,790	Ø300	Ø350	80	430
CPF-1000	100	250	7.5	40	30.8	1,600	800	1,850	Ø350	Ø400	85	490
CPF-1500	160	250	11	48	36.96	1,700	800	1,770	Ø400	Ø450	91	550



CPF 100~500



CPF 750~1500

※ Filter: Bag filter
※ The height of the caster is excluded.

Cautions

· For the dust with a risk of explosion such as aluminum, titan and epoxy, please place the order as an [Explosion-proof Type].
· In the case flame is sucked together with pollutants, a [Flame Blocking Device] should be installed.
· It is not suitable for the dust with moisture or oil content.






CPM-Series

Mobile Bag Filter Dust Collector : Dry Dust Removal

CPM-200

CPM-100

CPM-300

Product Introduction

It is a dust collector easily movable, which can remove the dust of relatively big and dry particles generated by polishing, pulverizing, drilling, tailoring, crushing, powder injection, sealing, shearing, cutting, grinding and mixing. It is of a simple structure, has little minor trouble, and has good performance in comparison to it's price.

Main Features

Mobile dust collector

· As it is equipped with a flexible arm, no separate hood or piping work is required.
· It can be easily moved to any direction as it is equipped with 4 heavy duty caters.
· It is the smallest dust collector among the products of equivalent specification.

Equipped with a bag filter

· It is equipped with a bag filter of which the filtering area has been widened to the maximum by processing polyester fiber into a rectangular plane.
· The service life of bag filter is relatively long as it does not easily wear out and has a high tensile strength.
· A bag filter is suitable for removal of the dry dust of about flour particle size (1~100μm).
· A bag filter of which the life has come to an end can be easily replaced using a one-touch attachment / detachment device. (A utility model is applied.)

Method where the filter is manually cleaned

· No air compressor is required as the filter is cleaned by manually shaking a cleaning rod.

Flexible arm

· The flexible arm is convenient as it can be freely moved or fixed.
· The air volume can be adjusted as there is a damper at the inlet.
※ CPM-100 is equipped with an A-type flexible hose, not a flexible arm.

High efficiency turbo fan

· As a high efficiency turbo fan with an excellent durability is used, it exercises stable and superior absorptive power.
· Vibration and noise have been reduced through ultra-precision electronic balancing treatment.

Specification

Model	Air flow (m^3/min)	Static pressure (mmAq)	Motor (Kw)	Size				Dust box (ℓ)	Weight (Kg)
				Width	Length	Height	Inlet		
CPM-100	12	90	0.74	620	720	600	A-type flexible hose (Ø125 X 1.2M)	12	90
CPM-200	20	170	1.5	620	1,040	750	Flexible arm (Ø185 X 2.5M)	19	170
CPM-300	40	230	2.2	820	770	1,288	Flexible arm (Ø185 X 2.5M)	32	200

※ Filter : Bag filter
※ The height of the caster is excluded.

Options

· Anti-static / water repellant-coated bag filter : Water repellant and anti-static functions have been added.
· Rubber coated bag filter (3D POLEX) : Suitable for fine dust
· Flexible conduits are used.
· Alternative power specifications : 220V / 380V / 440V, single phase / three phases, 50Hz / 60Hz

Cautions

· Do not absorb the dust with a risk of explosion such as aluminum, titan and epoxy.
· It is not suitable for the dust with moisture or oil content.

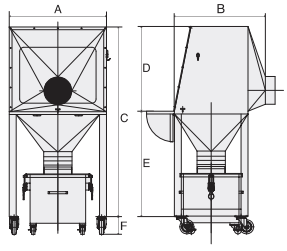
KF-200

Mobile Air Pulse Dust Collector : Welding Fume / Fine Dust Removal

KF-200

KF-200 + Separable workbench

Workbench standard



Size						
A	B	C	D	E	F	Dust box
700	655	1,365	610	755	128	56

Product Introduction

It is a dust collector easily movable, which can remove :

1. the fume (smoke) generated during various welding works such as arc, CO2, MAG (Meal Active Gas) and argon welding, and
2. a large volume of dust generated from polishing, pulverizing, drilling, cutting and grinding works.

It can be also used as a fixed type connecting a workbench.

Main Features

Mobile dust collector

· As it is equipped with a flexible arm, no separate hood or piping work is required.
· It can be easily moved to any direction as it is equipped with 4 heavy duty caters.
※ It can be also used as a fixed type connecting a separable workbench instead of the flexible arm.

Equipped with an ultra nano filter

· It is equipped with an ultra nano filter of which the surface is coated with nano fiber.
· Ultra nano filter has a high filtering efficiency (99.1% @0.3μm) and its service life is longer than that of the generally used polyester filter by ·about two folds.
· Ultra nano filter can remove not only minute dust but also adhesive fume.

3D air pulse purging method

· The filter is powerfully cleaned using a 3D air pulse device that sprays compressed air while rotating 360°.
· The filter can be cleaned while the dust collector is in operation. (The dust collector can be operated continuously for 24 hours a day.)
· The dust purged when the filter is cleaned is collected into a drawer type dust box.

Analog differential pressure gauge made in germany (option)

· Being equipped with an analog differential pressure gauge made by Afriso, a world class German manufacturer specialized in measuring instruments, it has little minor trouble and can make precise measurements.
· The differential pressure gauge informs the time to clean it and replace it by grasping the degree of clogging.

Flexible arm

· The flexible arm is convenient as it can be freely moved or fixed.
· The air volume can be adjusted as there is a damper at the inlet.

High efficiency turbo fan

· As a high efficiency turbo fan with an excellent durability is used, it exercises stable and superior absorptive power.
· Vibration and noise have been reduced through ultra-precision electronic balancing treatment.

Specification

Model	Air flow (m^3/min)	Static pressure (mmAq)	Motor (Kw)	Size			Dust box (ℓ)	Weight (Kg)
				Width	Length	Height		
KF-200	25	230	1.5	600	895	750	11	120

※ The height of the caster is excluded.

Options

· Flexible conduits are used.
· Separable workbench
· Alternative power specifications : 220V / 380V / 440V, single phase / three phases, 50Hz / 60Hz

Cautions

· An air compressor is required as the filter is cleaned using compressed air.
· Do not absorb the dust with a risk of explosion such as aluminum, titan and epoxy.
· It is not suitable for the dust with moisture or oil content.

UPC-260

Small Size Fume / Dust Collector

UPC-260 (Flexible hose)

UPC-260 (A-type Flexible hose)



Product Introduction

It is a small size dust collector, which can remove a small volume of dust and fume (smoke) generated from laser treatments in a department of dermatology, soldering, and laser marking. It has very little noise.

Main Features

Small size dust collector with little noise

· Being designed to be of 3 step noise blocking structure where the air is discharged along the curve of a circle, it is quite.
· It is quite and has little vibration as a low noise air blower is used.
· It is the smallest dust collector among the products of equivalent specification sold in Korea.
· The wired remote control can be freely attached to and detached from the product body, a table or a chair.
· Being equipped with casters, it is easily movable.

Equipped with an all-in-one type cartridge filter

· It is equipped with an all-in-one type cartridge filter made by combining a HEPA (High Efficiency Particulate Air) filter that removes minute particles of 0.3 μm size at the efficiency of 99.97% and active carbon that removes offensive odor.
· An all-in-one type filter has little loss of absorptive power and its filter can be easily replaced.

The filter can be replaced with the one suitable for the use.

· Another kind of filter can be mounted and used depending on the dust, gas and offensive odor generated.
· Removal of fume : All-in-one type cartridge filter
· Removal of dust : Bag filter
· Removal of stink : Deodorization filter


All-in-one type cartridge filter

Bag filter


Deodorization filter

Specification

Model	Air flow (m³/min)	Static pressure (mmAq)	Motor (Kw)	Size			Noise (dB)	Weight (Kg)
				Width	Length	Height		
UPC-260	10	32	0.21	Ø360	525	Ø75	55±2	15

※ Power supply : 220V
※ The height of the caster is excluded.

Options

· Flexible hose (Ø50)
· For 2 persons (2 inlets)
· Bag filter, and deodorization filter

Cautions

· It is not suitable for removal of high concentration fume, dust and offensive odor.

CEP-Series

Electric Dust Collector : Oil Mist / Smoke Removal

CEP-100D | CEP-30D

CEPR-30D (Separable air blower)

Product Introduction

It is a dust collector which uses electrostatic force and can remove the oil mist and smoke generated by a CNC lathe, CNC milling, cylindrical grinder, machining center, high speed machining system, and a robot drill.

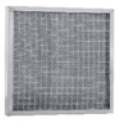
Main Features

Pollutants are removed using electrostatic force

- It filters pollutant particles by attaching them to the dust collecting cells using electrostatic force, and has high dust collection efficiency. (It can filter minute particles of 0.01μm size at an efficiency of 95 to 98%.)
- It can be semi-permanently used depending on the management of dust collecting cells.
- It purifies the air by emitting anions and has a good effect on the autonomic nervous system of human body.
- Over-current detection function is embedded in the high voltage power supply.
- Being equipped with a low noise fan, it has little noise and vibration.

Multi-step filter structure

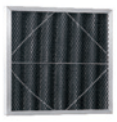
- First step : The demister takes the role of spreading the absorbed pollutants by inertia and gravitational sedimentation.
- Second step : The ionizer makes the pollutants carry an electric charge by cationizing them.
- Third step : The pollutants carrying an electric charge are removed being attached to the dust collecting cells by electrostatic force.
- Fourth step : The carbon mat filter removes offensive odor.



First step
Demister

Second step
Ionizer

Third step
Pollutants carrying



Fourth step
Carbon mat filter

Specification

Model	Air flow (m^3/min)	Static pressure (mmAq)	Motor (Kw)	Size				
				Width	Length	Height	Inlet	Outlet
CEP-30	34	68	0.27	795	490	600	Ø150	-
CEP-30-SR	17	28.5	0.15	1,085	490	600	Ø150	-
CEP-30D	34	67.8	0.27	500	1,175	590	Ø150	-
CEP-30D-SR	37	30.5	0.2	1,750	490	600	Ø150	-
CEP-50D	75.5	36	0.75	2,020	950	600	Ø250	-
CEP-100D	114	59	2.2	2,380	950	1,178	Ø350	-
CEPR-30	-	-	-	615	490	600	Ø150	Ø150
CEPR-30D	-	-	-	1,280	490	600	Ø200	Ø200
CEPR-50D	-	-	-	1,280	950	600	Ø250	Ø250
CEPR-100D	-	-	-	1,286	950	1,178	Ø350	Ø350

※ The demister is made of SUS, and the ionizer and the dust collecting cells are made of aluminum.

Cautions

- Do not inhale an inflammable material such as gasoline or thinner.

COMS-200

Small Size Oil Mist Collector : Water Soluble Oil Mist Removal

COMS-200

COMS-200 + After filter




Product Introduction

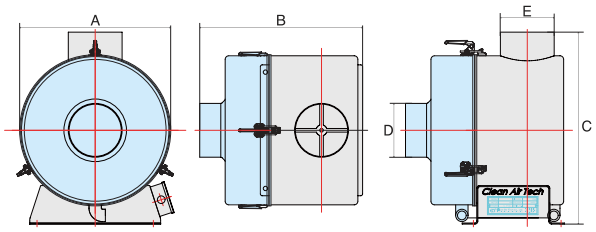
It is a small size dust collector used being one to one connected to processing equipment. It can remove water soluble oil mist generated by a CNC lathe, CNC milling, cylindrical grinder, machining center, high speed machining system, and a robot drill.

Main Features

It uses centrifugal force and gravitational sedimentation.

- It is designed to be of a structure where the oil mist absorbed flows along the circular structure to the drain at the bottom by centrifugal force and gravitational sedimentation.
- The oil flown out of the system via the drain can be recycled.
- Being of a simple structure, it has little minor trouble and its performance is good in comparison to its price.
- The filtering efficiency can be increased and offensive odor can be removed by installing an after filter provided as an option.
- It is a dust collector exclusively for water soluble oil.

Structure and Specification



COMS-200

Model	Air flow (m^3/min)	Static pressure (mmAq)	Motor (Kw)	Size					Weight (Kg)
				A	B	C	D (Inlet)	E (Outlet)	
COMS-200	25	230	1.5	Ø410	365	463	Ø150	Ø150	31

※ Basic supplies: Dual flange, drain hose, anti-vibration rubber, and SUS band

Options

- After filter (pre + hepa+ carbon) : Increase in the filtering efficiency
- Body support, and suction hose
- Alternative power specifications :
  220V / 380V / 440V (three phases), 50Hz / 60Hz
- Single phase is not supported.

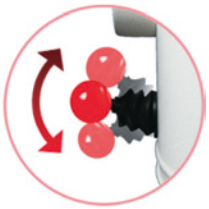
Cautions

- It is not suitable for water-insoluble oil.
- Do not inhale inflammable materials such as gasoline or thinner.

CCF-60

Small Size Dust Collector : Dry Dust Removal

Polyester
Cartridge filter.



Cleaning rod

CCF-60

Product Introduction

It is a small size dust collector, which can remove a small volume of dust generated from gold/silver handicraft and part machining.

Main Features

· Dust is removed using a polyester cartridge filter.
· Fine dust can be also removed by using a GDC-TEX filter coated with fluorine resin (option).
· No air compressor is required as the filter is cleaned by manually shaking a cleaning rod.
· It is quite and has little vibration as a low noise air blower is used.

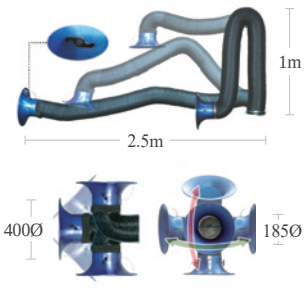
Specification

Model	Air flow (m^3/min)	Static pressure (mmAq)	Motor (Kw)	Size			Noise (dB)	Weight (Kg)
				Width	Height	Inlet		
CCF-60	15	34	0.27	Ø454	500	Ø98	65	19

※ Options : Absorption hose, and high efficiency filter (GDC-TEX)
※ The height of the caster is excluded.

F-185

Flexible Arm



Product Introduction

It is an arm hood which can be freely moved and fixed. It is helpfully used under the environment where a fixed type hood and a duct are difficult to be installed.

Main Features

· It moves freely and smoothly, and the shape can be maintained being firmly secured.
· It can rotate 360 degrees.
· As the internal structure of the hose is simple, the air resistance is small and transfer of particles is smooth.
· The inside of the hose is made of two-ply aluminum material and the outside is made of incombustible material that burns poorly.

The hood is produced in a streamlined shape so that pollutants can be smoothly absorbed, and the air volume can be adjusted as a damper is attached to the inlet.

Specification

Model	Pipe size	Length	Hood size	Material		
				Hood	Hose	Inside
F-185	185	2.5M	Ø400	aluminium	AL (Inside), PP (Outside) Flame retardancy, Steel wire	aluminium

SND-Series

Smart Nano Dust Collector
Dirty Gas Removal

It is a dust collector of descending air current type which removes a large volume of dirty gas using an ultra nano filter. The capacity can be increased even after the system has been installed by adding more modules.

CDC-Series

Bag Filter Dust Collector
Dirty Gas Removal

It is an ascending air current type dust collector of traditional method which removes a large volume of dirty gas using filter cloths.

※ It is designed, manufactured and installed by way of engineering to make it conform to the use environment and laws/regulations.

EP-Series

Electrostatic Precipitator
Fine Particles Removal

It is a highly efficient filtration device that removes fine particles, like dust and smoke, from a flowing gas using the force of an induced electrostatic charge minimally impeding the flow of gases through the unit.

CAC-Series

A/C Tower
Gaseous Pollutants Removal

It is an ascending air current type dust collector of traditional method which removes a large volume of gaseous pollutants using active carbon.

The company that regards
customer impression as the best value

Clean Air Tech

Main Office & Factory : 97, Hwanggeum-ro 109-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, KOREA
Tel. +82-1577-8898 Fax. +82-31-988-6989 E-mail. cat@cleanat.com

www.cleanat.com