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Initiatives by CHIKO AIRTEC to create a clean environment

In the US in the 1940s, if electric aircraft parts and components were manufactured in dusty environments, this frequently led to mechanical failures which resulted in serious accidents.After that, it turned out that the principal cause of these failures was particles of dust floating in the air. It is said that when these parts and components were assembled in a “clean room” where dust levels were carefully controlled, the failure rate was drastically reduced.
“Clean rooms” were introduced to Japan later on. They were expanded into other industries such as medical products, pharmaceuticals and food. In the 1980s when the semiconductor industry developed, a clean manufacturing environment became the basis of the high quality standards attained by Japanese products.
Recently, with the downsizing of production lines, along with energy and space saving considerations, it has also become necessary to miniaturize the dust collectors used to create clean environments. Up until now dust collectors have always been miniaturized by the manufacturer (manufacturing side). However, the style of miniaturization done by the manufacturers has tended not to be what the users (customers) actually require.
Therefore, we have looked to miniaturize dust collectors the way the customer wants, and have developed products that help to collect and remove “contaminants, particles, trash” according to individual work environments, be they processing, assembly or inspection.

Development Technology

“We make what the customer needs”
To this end, our designs do not fit with the existing norms and conventions of traditional dust collectors.
There has been a need for new ideas for every aspect of a dust collector: component design, materials, air volume, pressure and so on...
The reason why we have succeeded in miniaturizing high-performance machines and retained the machines’ level of performance was that we considered the customer's point of view, with ideas that were contrary to the usual notions.

Can be used even in narrow places. | **High powered dust collecting capability.** | **Effectively removes smells and odors.** | **Compatible with “clean rooms”**

Approach to quality

EMC Third Party Certification (CE Marking)
Our major products comply with EMC directives through external evaluation tests.

For our clean room-compatible dust collectors equipped with a HEPA filter, we inspect for dust particles in a “clean room” prior to shipment (evaluated by a coefficient table with a light scattering automatic particle measuring device).

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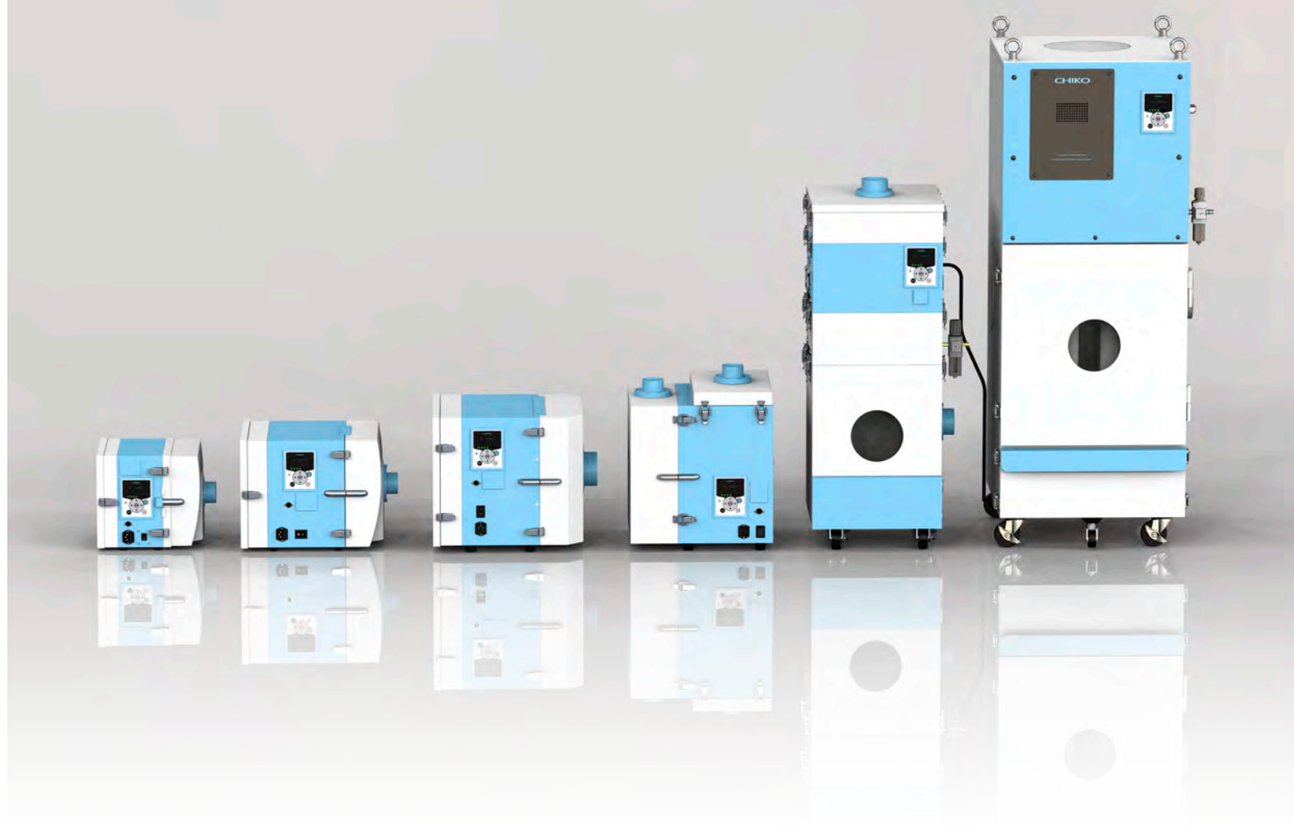
Inquiries to your agent...

CHIKO

Compact Dust Collector
General Catalog

Effective Elimination of Dust Particles For a Better Quality



INDEX

Products

Cyclone

Hood / Hose / Filter / List of Applications

Safety Precautions ⚠

- Please read the Operation Manual carefully before use to ensure you use the product correctly.
- Use the product for sucking up dry, non-explosive dust.
- Do not use the product in places where flammable, explosive or corrosive mist, smoke or gas is accumulated or located nearby.
- Follow the instructions in the Operation Manual for installation, connection, operation, running, inspection and fault diagnosis. Incorrect operation of this product may cause fire, electric shock or injury.
- Do not suck up the following substances:

■Flammable substances…Gasoline, thinner, benzene, kerosene, paint, ozone, solvent, volatile gases (petroleum etc.)
■Corrosive gases…Hydrogen chloride, formic acid, ozone, fluorine, etc.
■Explosive dust…Aluminum, magnesium, titanium, zinc, epoxy resin, cobalt, silicon, toner, wheat flour, sugar, rubber, etc.
■Dust containing sparks…Dust containing sparks generated by high-speed cutters, grinders, welding machines, etc.
■Fire sources... Cigarette butts, ashes, etc.
■Other…Water, oil, chemical liquid, etc.

●Notes on transportation, installation, storage and moving the product

○Please keep the product in a safe place when transporting and storing, within a temperature range of -10 ℃ to +60℃ and humidity below 80%.
○Two or more people are required when moving or installing the product. There is a risk of injury through falling.
○Rotary equipment is built into the product. Install the product in a horizontal place without vibrations.
○Do not use the product near explosive or flammable gas, corrosive substances, splashing water or combustible substances.
○The product is designed to be installed in an indoor clean room or highly cleaned factory environment. Do not install it outdoors.
○Install the product in a place without dew condensation at room temperature (ambient temperature: 10 to 40ºC, humidity:80% or less).
High temperature and dew condensation may cause electrical parts to fail and may cause an electrical shock.
Please be careful if the ambient temperature for suction is high. This could cause a deterioration in the performance of the motor or a motor failure.
○Provide sufficient space around the exhaust port (100 mm or more).
If the exhaust port is clogged, this diminishes the product's regular suction power.
This may also cause motor overheating and electrical parts failure due to insufficient cooling inside the product.
○Continued use with a narrow suction port (high pressure) may result in the motor becoming excessively hot due to diminished cooling capability.
○Install the product in a place where filter replacement and maintenance can be performed easily.
(To replace filters, a space of 350mm or more is required from the main body front face.)
○Install the product in a place 0.2 to 2.0 m from any walkway.
○The installation headroom of the product is 1,000 m or less.
○The installation classification is "Contamination level Ⅱ"

●Connection precautions

○Connect the product securely. Do not bend or pull cables forcibly.
Forcible bending or pulling may cause a fire and electrical shock.
○Use the correct power supply. Also, ensure the earth wire is connected.
○The over-voltage category of the power supply is "Division II".

●Operation precautions

○Do not move the product during the operation.
○Turn OFF the power if any sudden interruption of power occurs.
Otherwise, injury or product damage may be caused when the product restarts.
○Operating the product without the filter or with a clogged and damaged filter may cause a malfunction, if foreign matter enters the blower or sucked up dust is re-scattered into the surrounding environment.
Install the filter properly before operating the machine

●Repair, disassembly and modification precautions

○Do not disassemble or modify the machine. Disassembly and modification may cause an electrical shock or injury.
Contact your dealer for internal inspection and repair.

●Disposal precautions

○Dispose of the product properly as industrial waste.

PANEL

AT3 Panel

Rich information can be viewed on the Evolved AT3 Panel.

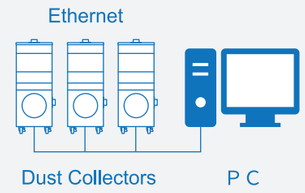
Creating "Visualization"
Pressure and temperature sensors installed, enabling you to check the status and condition of the dust collector in detail.

Centralized Control
A communication function enables you to control of multiple dust collectors as a linked part of your equipment. *Optional function (Model: RS-EN).

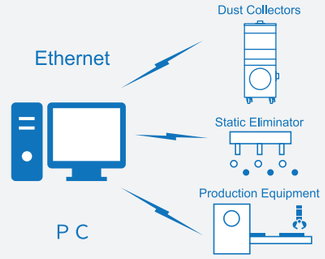
Diagnostic Function
By retrieving log data via Ethernet communication, you can identify the operational status of the dust collector.

Example of AT3 Panel Implementation

1 case
Centralized control I
Centralized management of multiple dust collectors.



2 case
Centralized control II
Centralized management as an integrated device.



3 case
Data Analysis (diagnostic function)
Checking past data and identify the status at the time when the issue occurred.
↓
Resolve the problem smoothly

Convenience Functions

Management

Suction pressure
External pressure
Filter differential pressure at the suction side
Exhaust pressure

You can identify 4 pressures. You can monitor the current capability level of the dust collector and the clogging condition in each filter.

Machine Preservation

You can monitor the temperature of the area around the blower. You can check the rotation speed of the motor, and identify equipment abnormalities early and take rapid countermeasures.

Diagnostic Function

Detects abnormalities in pressure; blower temperature; rotation speed and shows these on the display. It is also possible to output an error signal via an optional remote cable or Ethernet communication.

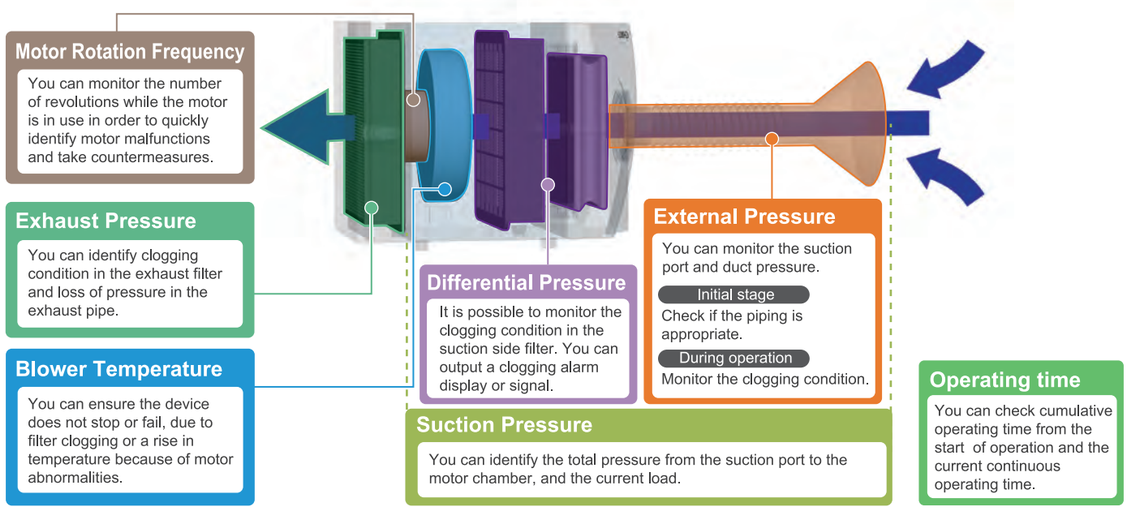
Communication Option

We have enabled Ethernet communication for the first time in a dust collector. This allows centralized control of multiple units, or in automated/unmanned factories.

Data Saving / Confirmation

By using the built-in lithium-ion battery included with the unit, you can log dust collection data.
You can save and review past operating conditions on the time axis (every 1 h). (Up to 3 months)
By retrieving the logged review data using Ethernet communication, you can now manage the unit from the time it is initialized.
You can also carry out maintenance at appropriate times by using the saved data. If there are any operational issues, it is possible to quickly and accurately investigate the causes.

Creating "Visualization"



AT3 Panel Display / Operation

Organic EL (OLED)

Able to check the condition of the machine with data.

Differential Pressure	External Pressure	Exhaust Pressure
Suction Pressure	Motor Rotation Frequency	Operating time

Alarm function
Filter clogging & abnormal temperature alarm etc.

1. **Mode Selection**
The mode select mode operates if pressed when the unit is OFF. This key can also be used to "go back to the previous stage."

2. **Cursor**
This is used for changing the operating level and selecting / changing items on the display.

3. **ON/OFF**
Beside the power ON / OFF function, if you press and hold down the OFF button you can register the initial pressure.

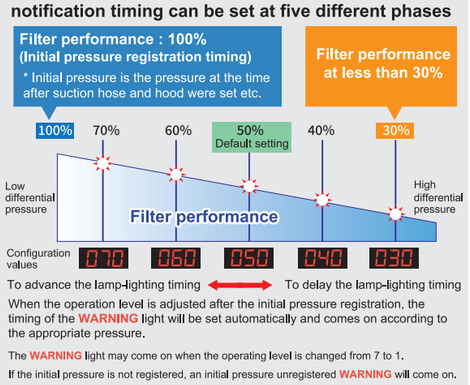
4. **Error Lamp**
This lamp lights up or blinks when an error occurs (insufficient airflow, pressure shortfall, etc.).

5. **Enter**
Press it to confirm the contents during mode select mode. Also the initial pressure is registered by pressing and holding down it during operation.

Filter Clogging Notification Function

Accurately assess the state of clogging in the filter by monitoring the differential pressure in the filter.
Filter clogging notification timing can be set at five different phases, you can receive the filter clogging notice base on your preferred setting.

【Filter Clogging Notification WARNING ☼】 notification timing can be set at five different phases



When the operation level is adjusted after the initial pressure registration, the timing of the WARNING light will be set automatically and comes on according to the appropriate pressure.

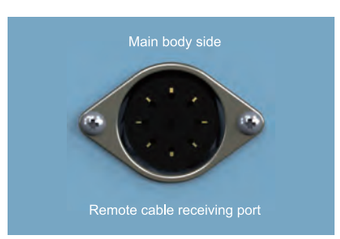
The WARNING light may come on when the operating level is changed from 7 to 1.

If the initial pressure is not registered, an initial pressure unregistered WARNING will come on.

External Control (sold separately)

Communication option (LAN board for ethernet communication, remote cable) enables the connection with surrounding equipment, remote operation and output of abnormality signal.

LAN board for ethernet communication
(sold separately/model: RS-EN)

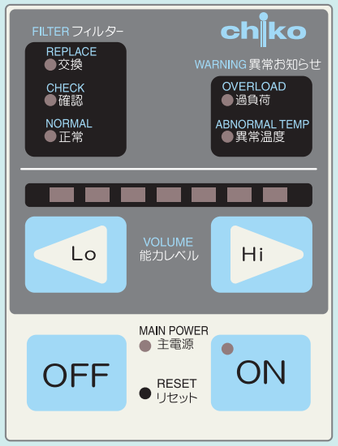


Remote cable
(sold separately/model: mt-173-8(3m))

- **Operation ON/OFF**
- **Change capacity level (air volume)**

1.Operation input signal
2.Operation pressure signal (DC1-5V)
3.Filter clogging signal
4.Remote-control operation switching input signal
5.Operating signal
6.Abnormality signal
7.Change of operating level input signal (DC0-5V)
8.Gnd

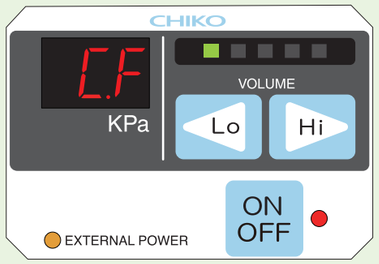
PANEL



AT Panel

Lamp Notification for Filter Condition & Abnormality

■Installed model
SK-250AT / SK-450AT-HI / SK-750AT-PM

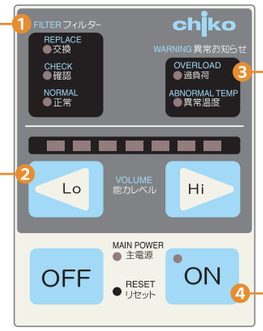


AD Panel

Ultra Compact Dust Collector use Simple Panel

■ Installed model
CHV-030AD-HI-V1

AT Panel Display / Operation



1 Filter Notification lamp
Notifies you about the status of clogging.

2 Operating Level (Tact switch)
Adjusts the dust collector suction level. Can be set according to 7 operating levels.

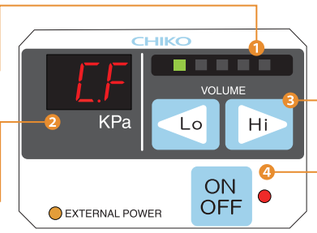
3 Anomaly Signal

4 ON/OFF (Tact switch)

AD Panel Display / Operation

Power Degradation Notification Feature

When power degradation occurs due to reasons like filter clogging, [C.F] will be displayed on the panel.



1 Capacity Level Lamp
Capacity level displayed by green lamp.

2 Display Panel
Notification of operation pressure or errors condition etc.

3 Capacity Level (Tact switch)
Button for adjustment of the suction level of the dust collector.
It can be set in 5 levels.

4 ON/OFF (Tact switch)

Warning Lamp Notification

Filter clogging condition notification feature

Replace / Confirm / Normal

Notification lamp for filter condition

Replace: Filter need to be replaced
Confirm: Filter condition need to be confirmed
Normal: Filter condition is normal

Abnormality notification feature

Overload / Abnormal Temperature

Notification lamp for Abnormality

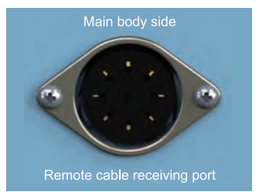
Overload: The invertor of the dust collector detects an overload / lights up and stop operation
Abnormal temperature: lights up when the motor reaches an abnormal temperature, the operation stops at the same time.

External Control (sold separately) *For AT & AD panel

Communication option (remote cable) enables the connection with surrounding equipment, remote operation and output of abnormality signal.

- **Operation ON/OFF**
- **Change capacity level (air volume)**

1.Operation input signal
2.Operation pressure signal (DC1-5V)
3.Filter clogging signal
4.Remote-control operation switching input signal
5.Operating signal
6.Abnormality signal
7.Change of operating level input signal (DC0-5V)
8.Gnd

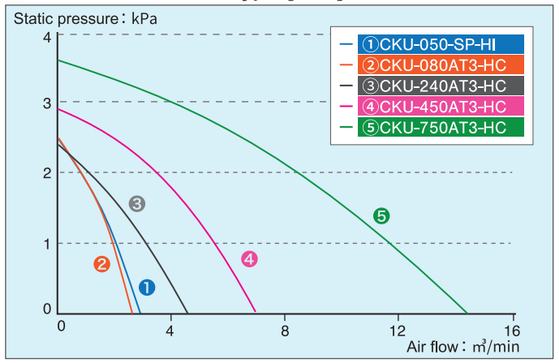


Remote cable
(sold separately/model: mt-173-8(3m))

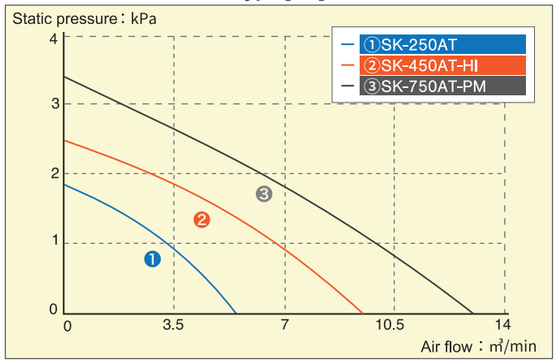
Dust Collector Performance Curve / List of Product Specifications

The suction performance of the dust collector is shown by pressure on the vertical axis (this catalog uses kPa as the unit for static pressure) and air flow on the horizontal axis (unit: ㎥/min).In this catalog, the maximum values are displayed for the respective units. For example, if air volume (horizontal axis) is zero, the maximum static pressure is displayed, and if static pressure (vertical axis) is zero, the maximum air volume is displayed. The lists of specifications on each page show maximum air volume and maximum static pressure. *Using capacity level 7

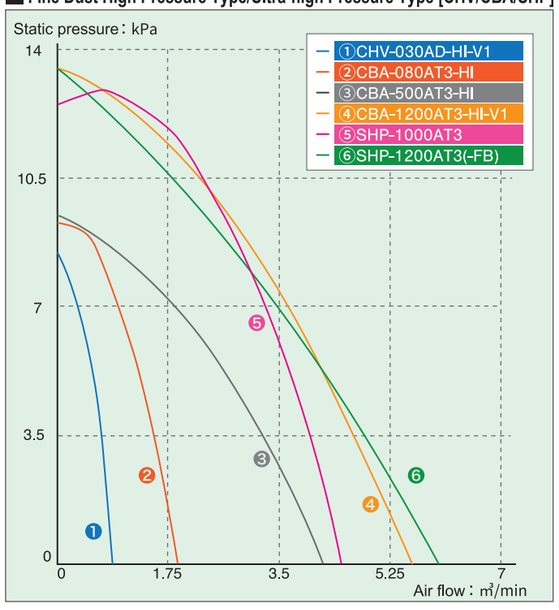
■ Fine Dust Air Blower Type [CKU]



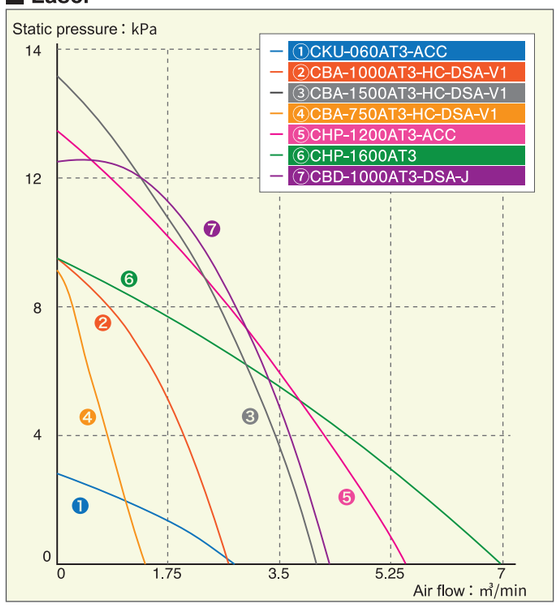
■ Fine Dust Air Blower Type [SK]



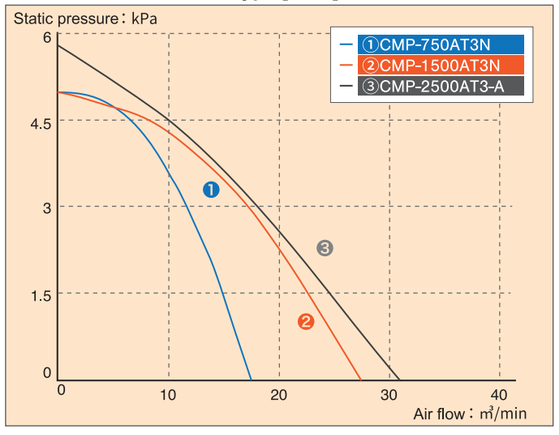
■ Fine Dust High Pressure Type/Ultra-high Pressure Type [CHV/CBA/SHP]



■ Laser



■ Fine Dust Air Blower Type [CMP]



■ List of product specifications

Product model	Air blower type	High pressure type	Laser fumes	General environments	For installation inside clean rooms	Main body suction port diameter (hose size)	Panel	Remote connector	Activated carbon	HEPA filter	Compressed air	Clean class compliant (clean class during operation)	RoHS compliant	200-230V compliant	CE compliant
CKU Series															
CKU-080AT3-HC	●	—	—	●	●	65	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	●
CKU-240AT3-HC	●	—	—	●	●	75	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	●
CKU-450AT3-HC	●	—	—	●	●	100	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	●
CKU-750AT3-HC	●	—	—	●	●	125	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	—
CBA Series															
CBA-080AT3-HI	—	●	—	●	●	65	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	●
CBA-500AT3-HI	—	●	—	●	●	75	AT3	●	—	OP	—	100,000-10,000(1,000)	●	●	●
CBA-1200AT3-HI-V1	—	●	—	●	●	75	AT3	●	—	●	—	1,000	●	●	●
SHP Series															
SHP-1000AT3	—	●	—	●	●	75	AT3	●	—	●	●	1,000	●	●	—
SHP-1200AT3	—	●	—	●	●	75	AT3	●	—	●	●	1,000	●	●	—
Laser Clean Series															
CBA-750AT3-HC-DSA-V1	—	●	●	●	●	75	AT3	●	●	●	—	100,000-10,000	●	●	●*2
CBA-1000AT3-HC-DSA-V1	—	●	●	●	●	75	AT3	●	●	●	—	100,000-10,000	●	●	●
CBA-1500AT3-HC-DSA-V1	—	●	●	●	●	100	AT3	●	●	●	—	100,000-10,000	●	●	●
CHP-1200AT3-ACC	—	●	●	●	●	100	AT3	●	●	●	●	100,000-10,000	●	●	—
CHP-1600AT3	—	●	●	●	●	100	AT3	●	●	●	●	100,000-10,000	●	●	—
CKU-060AT3-ACC	●	—	●	●	—	65	AT3	●	●	●	—	—	●	●	●
CBD-1000AT3-DSA-J	—	●	●	●	●	75	AT3	●	●	●	●	100,000-10,000	●	●	—
CMP Series															
CMP-750AT3N	●	▲ Medium pressure	—	●	OP	125	AT3	●	—	OP	●	1,000(OP)	●	● 3phase	—
CMP-1500AT3N	●	▲ Medium pressure	—	●	OP	150	AT3	●	—	OP	●	1,000(OP)	●	● 3phase	—
CMP-2500AT3-A	●	▲ Medium pressure		●	OP	150	AT3	●	—	OP	●	1,000(OP)	●	● 3phase	●
Compact															
CKU-050-SP-HI	●	—	—	●	—	50	—	—	—	—	—	—	●	—	—
CHV-030AD-HI-V1	—	●	—	●	●	38	AD	●	—	●	—	1,000	●	●*1	—
SK Series															
SK-250AT	●	—	—	●	—	75	AT	●	—	—	—	—	●	●	●
SK-450AT-HI	●	—	—	●	—	100	AT	●	—	—	—	—	●	●	●
SK-750AT-PM	●	—	—	●	—	125	AT	●	—	—	—	—	●	●	●
Cyclone Series															
SCC-60-10	—	—	—	—	—	38	—	—	—	—	—	—	●	—	—
SCC-150-8	—	—	—	—	—	50	—	—	—	—	—	—	●	—	—
SCC-60-13-SUS	—	—	—	—	—	38	—	—	—	—	—	—	●	—	—
SCC-150-13-SUS	—	—	—	—	—	50	—	—	—	—	—	—	●	—	—
SCC-300-24-SUS	—	—	—	—	—	75	—	—	—	—	—	—	●	—	—

*1 To be used with AC-DC power supply. *2 Scheduled to be CE compliant after Nov 2022.

■ Information about Icons

Ability

- Air blower type
- High pressure
- Medium pressure
- Ultra-high pressure

Panel

- AT3 panel
- AT panel
- AD panel

Filter cleaning function

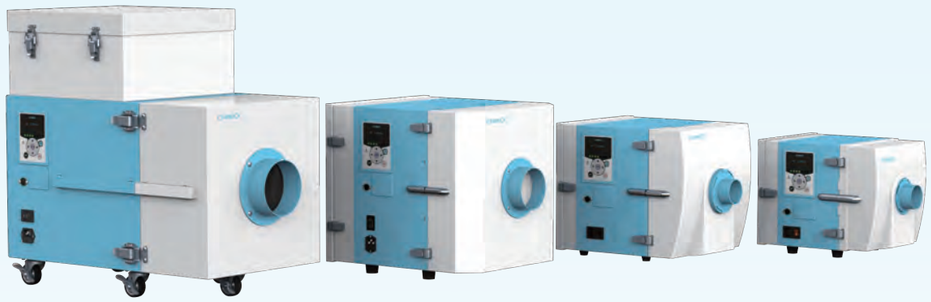
- Filter cleaning function Vibration type
- Back wash type
- Filter cleaning function Pulse type

RoHS / CE / Installation environment

- RoHS compliant as Standard
- CE compliant model can be provided where a delivery date is specified *see back cover
- For general environment
- Clean rooms For installation inside clean rooms

CKU series

Air blower type that sucks in floating dust particles, etc. using a ventilation-like air flow.
Suitable for clean rooms. (Complies with cleanliness class 100,000 to 10,000)



CKU-750AT3-HC　CKU-450AT3-HC　CKU-240AT3-HC　CKU-080AT3-HC

Air blower type

24 hours operation

Control panel AT3 panel
details P.4-P.5

Remote control feature
details P.5

RoHS compliant

CE compliant (except CKU-750AT3-HC)

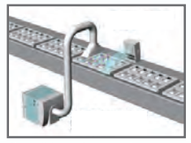
Clean room compliant

Compact & High-performance

We have redeveloped the inner part of the fan motor and its control to realize our vision of “compact high performance”.
Compared to competing products, it has a 50% lower volume ratio, and is a successful answer for the high demand of device miniaturization in recent years.
Operating efficiency is the same at 50Hz/60Hz.

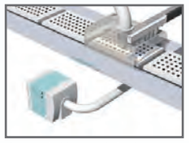
CKU Series (with filter cases open)

List of Applications

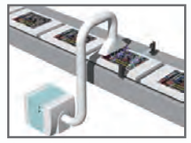


Blow off the dirt on mobile phone surface prior to packing with static elimination

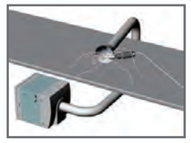
Removal of dust on container with air blower



Removal of fine particles from electric components (such as chips or sensors) with air blower & static elimination



Removal of dust on surface of circuit board with air blower & static elimination



Recycle of powder from machining of precious metals

Filter Type

Model	Primary filter	Secondary filter	Exhaust filter
CKU-080AT3-HC	FB-25	CHF-2525-50	CHF-2525-50
CKU-240AT3-HC	FB-30	CHF-3030-50	CHF-3030-50
CKU-450AT3-HC	FB-700-22	CHF-3535-70	CHF-3535-70
CKU-750AT3-HC	FB-700-33-125	CHF-3535-95	CHF-3535-95

Easily Detachable Flange Type (sold separately)

Model	φ38	φ50	φ65	φ75	φ100
CKU-080AT3-HC	FRJ-D-38-35-92	FRJ-D-50-35-92	Standard	—	—
CKU-240AT3-HC	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard	—
CKU-450AT3-HC	FRJ-D-38-37-139	FRJ-D-50-37-139	FRJ-D-65-37-139	FRJ-D-75-37-139	Standard
CKU-750AT3-HC	—	—	—	—	—

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *1	Suction port (hose) size	Separately sold suction port (available size)
CKU-080AT3-HC	50W	100V single phase	50/60	2.4A	2.9m³/min	2.5kPa	54-58dB	φ65	φ50・φ38
CKU-240AT3-HC	250W	100V single phase	50/60	5.3A	4.6m³/min	2.4kPa	52-60dB	φ75	φ65・φ50・φ38
CKU-450AT3-HC	500W	100V single phase	50/60	9.8A	7.0m³/min	2.9kPa	57-65dB	φ100	φ75・φ65・φ50・φ38
CKU-750AT3-HC	1000W	200V single phase	50/60	11.0A	13.2m³/min	3.6kPa	63-67dB	φ125	—

Model	200-230V compliant	CE compliant	Panel	Power cable	Remote *2 control feature	Clean room compliant	Primary filter capacity	Mass	Main body dimensions (D×W×H)
CKU-080AT3-HC	○	○	AT3	3m	○	○	2.5L	10.3kg	385×290×276mm
CKU-240AT3-HC	○	○	AT3	3m	○	○	4.5L	16.4kg	422×340×328mm
CKU-450AT3-HC	○	○	AT3	3m	○	○	5.0L	29.0kg	472×400×399mm
CKU-750AT3-HC	Standard	—	AT3	3m	○	○	15L	41kg	675×400×630mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.　*2 Separately sold remote cable is needed.

Structure and Features

Primary Filter

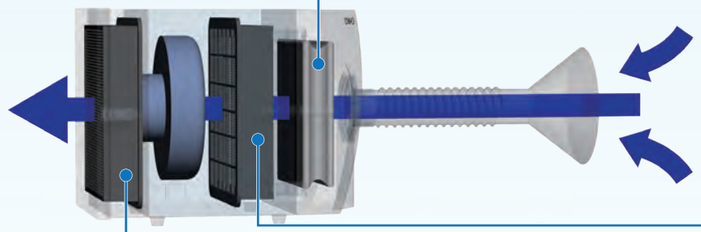
Filter bag is made of five layers of nonwoven polypropylene fabric with high overall strength that does not tear easily like a paper pack. Each layers have different air permeation rates to minimize clogging.

Filtration rate: Above 95% for 45μ particulates

Secondary Filter

Nonwoven polypropylene fabric is formed into a pleated filter with an ABS resin outer frame.
(CKU-240AT3-HC is polypropylene).

Filtration rate: Above: 99% for 0.3μ particulates



Exhaust Filter

The same filter as the secondary filter. collecting dust particles generated in the fan motor chamber. Enable to be used inside a clean room.

Filtration rate: Above: 99% for 0.3μ particulates

V1 Model

HEPA exhaust filter model.
Standard specification models can be easily converted to V1 specification after purchase. (CKU-240AT3-HC requires replacement of the exhaust cover).

■HEPA filter Model

CKU-080AT3-HC-V1	HEP-2525-50
CKU-240AT3-HC-V1	HEP-3030-69
CKU-450AT3-HC-V1	HEP-3535-69
CKU-750AT3-HC-V1	HEP-3535-96

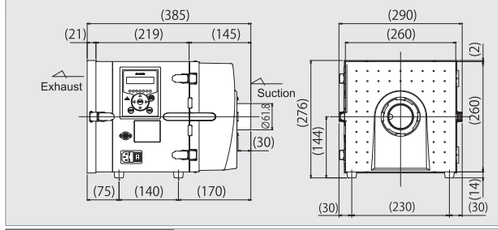
Filtration rate:
Above: 99.97% for 0.3μ particulates

Clean Class Compliant:
1,000*

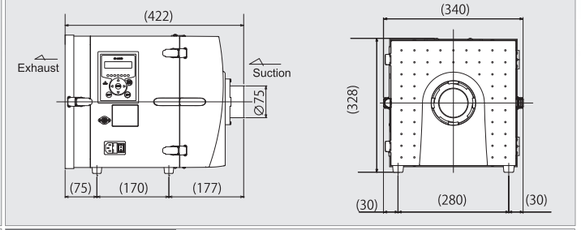
*Refer to the examination before shipment

Dimensions

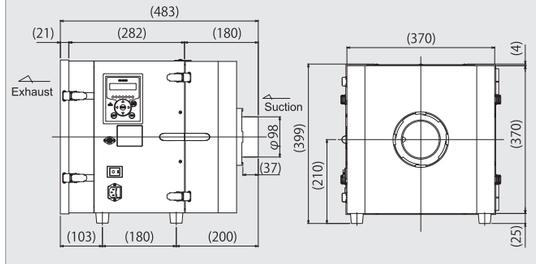
CKU-080AT3-HC



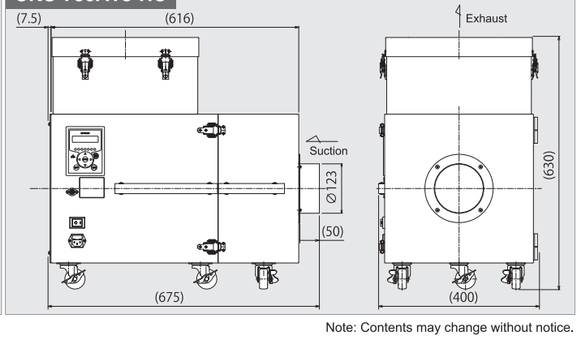
CKU-240AT3-HC



CKU-450AT3-HC



CKU-750AT3-HC



Note: Contents may change without notice.

CBA series

A high pressure model that sucks up adhering fine dust like a vacuum cleaner.
Suitable for clean rooms. (Complies with cleanliness class 100,000 to 10,000.)
A perfect fit for removing adhering dust with a small diameter tube or slit nozzle.

CBA-080AT3-HI　CBA-500AT3-HI　CBA-1200AT3-HI-V1

High pressure type　24 hours operation　Control panel AT3 panel　Remote control feature　RoHS compliant　CE compliant　Clean room compliant

details P.4-P.5　details P.5

Compact & High-performance

By using a brushless motor, we have created a product with a high suction static pressure (maximum 13.5 kPa). It is suitable for sucking in adhering dust using a fine tube or slit nozzle take advantage of high suction pressure. Efficiency is the same at 50Hz or 60Hz. The compact design ensures that it can answer to the high demand of device miniaturization in recent years. This is the product that most embodies our concept of "compact high performance".

* Not subject to high efficiency regulations with brushless motor equipped.

List of Applications

Removal of dust from film surface　Removal of dust from film cross-section　Collecting metal powder from lithium-ion electrode surface　Dust collection with a brush cleaner　Dust collection with a thin tube

Filter Type

Easily Detachable Flange Type (sold separately)

Model	Primary filter	Secondary filter	Exhaust filter	Motor cooling filter	φ38	φ50	φ65	φ75
CBA-080AT3-HI	FB-25	CHF-2525-50	CHF-2525-50	—	FRJ-D-38-35-92	FRJ-D-50-35-92	Standard	—
CBA-500AT3-HI	FB-30	CHF-3030-50	CHF-3030-50	—	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard
CBA-1200AT3-HI-V1	FB-30	CHF-3030-50	HEP-3030-69	HEP-1293-34	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *1	Suction port (hose) size	Separately sold suction port (available size)
CBA-080AT3-HI	450W	100V single phase	50/60	7.6A	1.9㎥/min	9.3kPa	58-70dB	φ65	φ50・φ38
CBA-500AT3-HI	500W	100V single phase	50/60	7.9A	4.2㎥/min	9.5kPa	61-69dB	φ75	φ65・φ50・φ38
CBA-1200AT3-HI-V1	1200W	200V single phase	50/60	9.5A	5.5㎥/min	13.5kPa	60-77dB	φ75	φ65・φ50・φ38

Model	200-230V compliant	CE compliant	Panel	Power cable	Remote control feature *2	Clean room compliant	Primary filter capacity	Mass	Main body dimensions (D×W×H)
CBA-080AT3-HI	○ *3	○	AT3	3m	○	○	2.5L	10.0kg	340×290×276mm
CBA-500AT3-HI	○	○	AT3	3m	○	○	4.5L	17.4kg	452×340×328mm
CBA-1200AT3-HI-V1	Standard	○	AT3	3m	○	○	4.5L	26.7kg	537×340×351mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.
*2 Separately sold remote cable is needed.　*3 Depending on the voltage used, product capability may differ slightly from the 100V product.

Structure and Features

Primary Filter

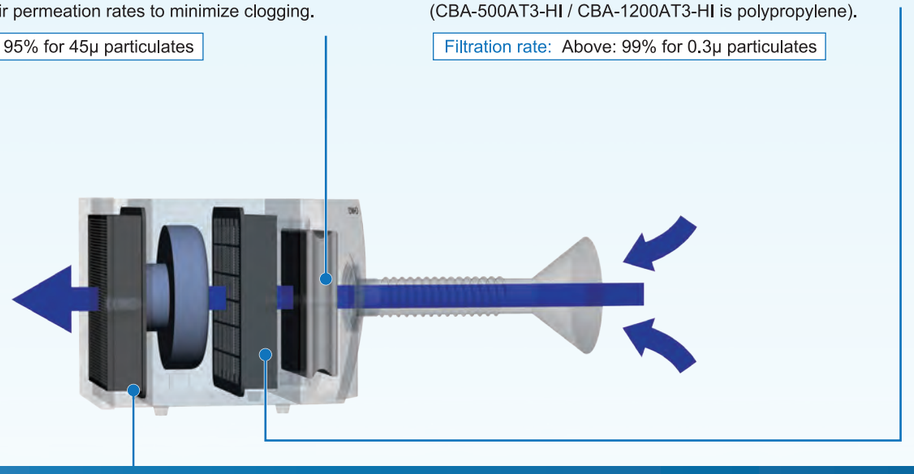
Filter bag is made of five layers of nonwoven polypropylene fabric with high overall strength that does not tear easily like a paper pack. Each layers have different air permeation rates to minimize clogging.

Filtration rate: Above 95% for 45μ particulates

Secondary Filter

Nonwoven polypropylene fabric is formed into a pleated filter with an ABS resin outer frame.
(CBA-500AT3-HI / CBA-1200AT3-HI is polypropylene).

Filtration rate: Above: 99% for 0.3μ particulates



Exhaust Filter

The same filter as the secondary filter. collecting dust particles generated in the fan motor chamber. Enable to be used inside a clean room.

■CBA-080AT3-HI / CBA-500AT3-HI

Filtration rate: Above: 99% for 0.3μ particulates

■CBA-1200AT3-HI-V1　HEPA filter installed standard model

Filtration rate: Above: 99.97% for 0.3μ particulates

Clean class: 1,000

V1 Model

With a V1 at the end of the model name, standard specification models can be easily converted to V1 specification after purchase. (CBA-500AT3-HI requires replacement of the exhaust cover).
With HEPA filter installed, the dust collector is clean class 1000 compliant(*).
(*Refer to the examination before shipment)

■HEPA filter Model

CBA-080AT3-HI-V1	HEP-2525-50
CBA-500AT3-HI-V1	HEP-3030-69

*CBA-1200AT3-HI-V1 is installed with HEPA filter as standard.

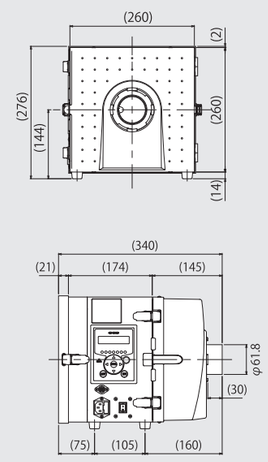
Filtration rate: Above: 99.97% for 0.3μ particulates

Clean class: 1,000*

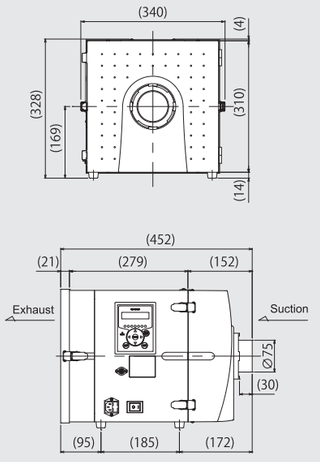
*Refer to the examination before shipment

Dimensions

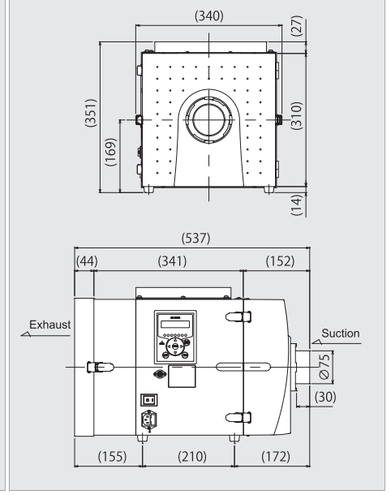
CBA-080AT3-HI



CBA-500AT3-HI



CBA-1200AT3-HI-V1



Note: Contents may change without notice.

High static pressure /medium air volume dust collector.
Suitable for processes requiring high static pressure suction, such as circuit board division, and removal of adhered dust. The compact structure and minimal installation space required for this device ensures it is highly space efficient.

SHP-1000AT3　SHP-1200AT3　SHP-1200AT3-FB

Ultra-high pressure type　24 hours operation　Control panel AT3 panel　Remote control feature　Back wash type　RoHS compliant　Clean room compliant

details P.4-P.5　details P.5

Equipped with High Pressure Brushless Motor

High-pressure brushless motor is Equipped. Ensuring high power dust collection with performance quality maintained at a high level even when used with a thin nozzle or the suction port.

Recommended for circuit board divider lines and battery production lines with high dust volumes)

Not subject to high efficiency regulations with brushless motor equipped.
(As of August 2021)

Large Inspection Window

Able to check the filter cleaning efficiency, suction status, filter condition etc. from the large inspection window.

Dust Pan

A large volume of dust can be collected in the dust pan when collecting with multiple branches. Large quantities dirt and trash can be disposed of easily.

Structure and Features

Primary Filter

A conductive filter is installed as standard to prevent the generation of static electricity.

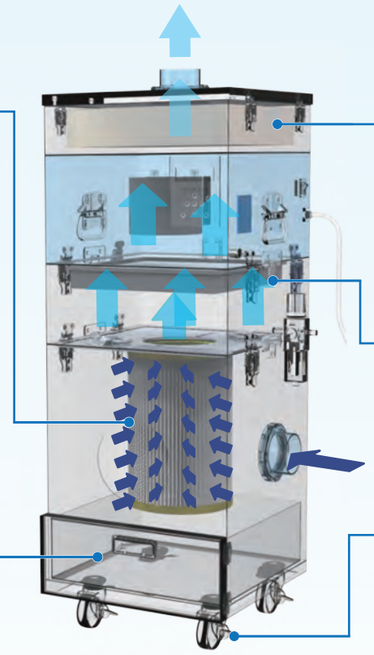
■SHP-1000AT3/SHP-1200AT3

Filtration rate: Above 99.9% for 5μ particulates

■SHP-1200AT3-FB

Filtration rate: Above 95% for 45μ particulates

Dust and dirt are collected in a bag which is easy to replace the filter.



Exhaust Filter

Equipped with a HEPA filter and can be used inside a clean room.

Filtration rate: Above: 99.97% for 0.3μ particulates

Clean class: 1,000

Secondary Filter

Equipped with a high-performance filter to protect electric parts from dust.

Filtration rate: Above: 99% for 0.3μ particulates

Dust Pan

Dust collected in the dust box can be easily disposed of.

Electro-conductive Caster

With the electro-conductive caster, static electricity can be released to the ground.

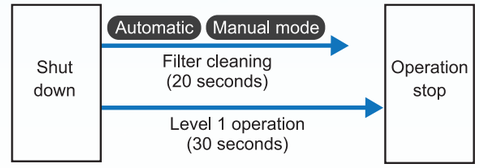
*Set the device on an electro-conductive ground / mat during electrostatic discharge.

Filter Cleaning Function [Gyro Air Type]

*SHP-1200AT3-FB has no filter cleaning function.

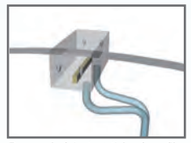
Inbuilt mechanism of filter cleaning for approx. 20 seconds.
In automatic filter cleaning mode, the device will operate at Level 1 for approx. 30 seconds to prevent reverse flow.

Automatic filter cleaning mode is operated when:
1) The device is OFF after cumulative operation time exceeds 1 hour
2) The device is switched to Level 1 by remote operation



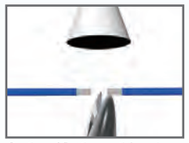
List of Applications


Removal of dust when perforating PET bottle labels


Removal of dust particles from film surface with static elimination


Removal of dust particles created by cutting lithium-ion battery electrodes


Collecting particles when cutting or drilling with board dividing machine


Suction of floating particles when cutting/peeling optical fiber

Filter Type

Model	Primary filter	Secondary filter	Exhaust filter		
			Filter model	Blower cooling filter(suction)	Blower cooling filter(exhaust)
SHP-1000AT3	CS-200-300-75P-E	CHF-2525-50	HEP-3030-69	AE-100(113×47)	HEP-1293-34
SHP-1200AT3	CS-250-300-93P-E	CHF-2525-50	HEP-3535-69	AE-100(100×100)	HEP-1293-34
SHP-1200AT3-FB	FB-900-33-125	CHF-2525-50	HEP-3535-69	AE-100(100×100)	HEP-1293-34

Easily Detachable Flange Type (sold separately)

Model	φ38	φ50	φ65	φ75
SHP-1000AT3	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard
SHP-1200AT3	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard
SHP-1200AT3-FB	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard

List of Specifications

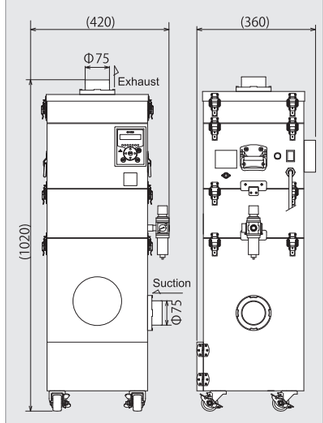
Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *2	Suction port (hose) size	Separately sold suction port(available size)	Compressed air consumption volume	Compressed air pressure
SHP-1000AT3	1200W	200V single phase	50/60	11.0A	4.5㎥/min	12.5kPa	56-71dB	φ75	φ65・φ50・φ38	approx. 70L/Operation	0.4～0.5Mpa
SHP-1200AT3	1200W	200V single phase	50/60	11.0A	6.0㎥/min	13.5kPa	55-70dB	φ75	φ65・φ50・φ38	approx. 70L/Operation	0.4～0.5Mpa
SHP-1200AT3-FB	1200W	200V single phase	50/60	11.0A	6.0㎥/min	13.5kPa*1	55-70dB	φ75	φ65・φ50・φ38	—	—

Model	200-230V compliant	CE compliant	Panel	Power cable	Filter cleaning function	Remote control feature *3	Clean room compliant	Primary filter capacity *4	Mass	Main body dimensions (D×W×H)
SHP-1000AT3	Standard	—	AT3	5m	Gyro air type	○	○	8.8L	45.0kg	420×360×1020mm
SHP-1200AT3	Standard	—	AT3	5m	Gyro air type	○	○	12.9L	56.0kg	495×420×1030mm
SHP-1200AT3-FB	Standard	—	AT3	5m	—	○	○	45L	49.0kg	482×420×1030mm

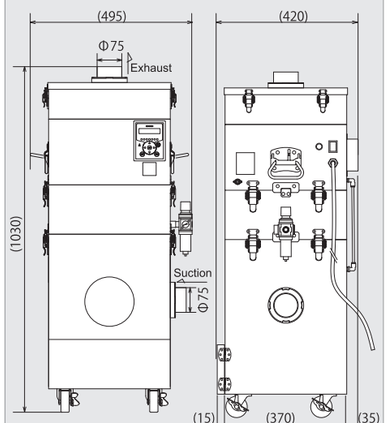
*1 Maximum specified pressure：13kpa
*2 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port. (Pulse noise not included)
*3 Separately sold remote cable is needed.　*4 The dust collectable capacity is about 70% of the withdrawal capacity as a guide.

Dimensions

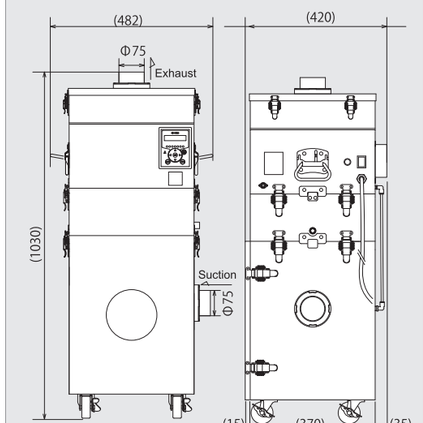
SHP-1000AT3



SHP-1200AT3



SHP-1200AT3-FB



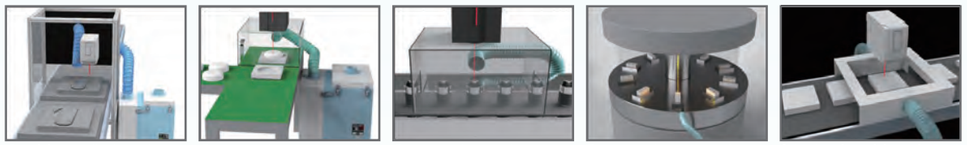
Note: Contents may change without notice.

Suction power will not decrease during extended use, even for the suction of highly viscous fumes caused by laser marking, which typically cause filter clogging.

CBA-1500AT3-HC-DSA-V1　CBA-1000AT3-HC-DSA-V1　CBA-750AT3-HC-DSA-V1

High pressure type　24 hours operation　Control panel AT3 panel details P.4-P.5　Remote control feature details P.5　Vibration type　RoHS compliant　CE compliant　Clean room compliant

List of Applications



Dust & fumes collection during vehicle headlight production

Fume extraction when manually marking duracon

Fume extraction when laser processing bearings

Fume extraction when marking resin connector

Collection of dust & fumes from silicon isolator

Filter Type

Model	Primary filter	Secondary filter	Exhaust filter	Activated carbon cassette
CBA-750AT3-HC-DSA-V1	HDF-3030-120-F1-ZEO	HEP-1714-30	HEP-2720-69	ACC-2720-75
CBA-1000AT3-HC-DSA-V1	HDF-3535-120-F1-ZEO	CHF-2030-50-F1	HEP-3220-69	ACC3220-100
CBA-1500AT3-HC-DSA-V1	HDF-3535-176-F1-ZEO	CHF-2030-50-F1	HEP-3225-69	ACC3225-125

Easily Detachable Flange Type (sold separately)

Model	φ38	φ50	φ65	φ75
CBA-750AT3-HC-DSA-V1	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard
CBA-1000AT3-HC-DSA-V1	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard

Suction Flange Type (sold separately)

Screw fixing type for CBA-1500AT3-HC-DSA-V1.

Model	φ38	φ50	φ65	φ75	φ100
CBA-1500AT3-HC-DSA-V1	FRJ-B-38-40-140	FRJ-B-50-40-140	FRJ-B-65-40-140	FRJ-B-75-40-140	Standard

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow *1*2	Maximum static pressure	Noise level *3	Suction port (hose) size	Separately sold suction port (available size)
CBA-750AT3-HC-DSA-V1	440W	100V single phase	50/60	6.5A	1.3㎥/min (when zeolite is deposited)	9.5kPa	49-63dB	φ75	φ65・φ50・φ38
CBA-1000AT3-HC-DSA-V1	500W	100V single phase	50/60	7.8A	2.7㎥/min (when zeolite is deposited)	9.3-9.5kPa	54-59dB	φ75	φ65・φ50・φ38
CBA-1500AT3-HC-DSA-V1	1140W	200V single phase	50/60	11.6A	4.1㎥/min (when zeolite is deposited)	15kPa	55-58dB	φ100	φ75・φ65・φ50・φ38

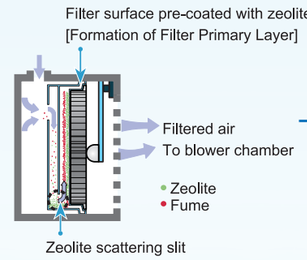
Model	200-230V compliant	CE compliant	Panel	Power cable	Filter cleaning function	Remote control feature *4	Clean room compliant	Primary filter capacity *5	Mass	Main body dimensions (D×W×H)
CBA-750AT3-HC-DSA-V1	○	○ *6	AT3	3m	Vibration type	○	○	1.2L	28.5kg	424×336×490mm
CBA-1000AT3-HC-DSA-V1	○	○	AT3	3m	Vibration type	○	○	1.5L	32.5kg	405×386×512mm
CBA-1500AT3-HC-DSA-V1	Standard	○	AT3	3m	Vibration type	○	○	2L	41.8kg	537×386×535mm

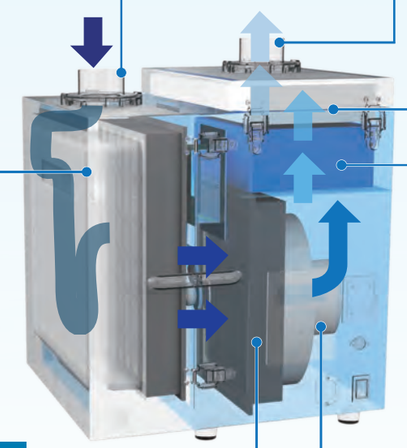
*1 Maximum air volume: 2.7 - 2.9 ㎥ /min when zeolite is deposited.　*2 2.5 ㎥ /min (CBA-1000AT3-HC-DSA-V1-T) for voltage 200 V voltage only.
*3 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.　*4 Separately sold remote cable is needed.
*5 Because of the present of zeolite, the primary filter capacity will differ from the dust collection capacity.　*6 Scheduled to be CE compliant after Nov 2022.

Structure and Features

Primary Filter

Cassette filter that combined filter and fume adsorbent substance zeolite
Uses a cassette filter incorporating zeolite (combined filter and fume adsorbent substance). Zeolite is scattered by sucked in air and instantaneously laminated onto the filter surface, to prevent the adhesion of fumes to the filter surface.
Frame and filter material are flame resisting material.





Easily Removable Flange

The size of the flange can be changed with a single touch.
Note: Please set the diameter of the exhaust flange to be wider than the suction flange.

Exhaust Filter

Equipped with HEPA filter as standard.

Filtration rate:
Above: 99.97% for 0.3μ particulates

Clean class:
100,000~10,000

Activated Carbon Cassette

Odor-absorbing cassette type. Easy to replace.

Secondary Filter

Protects electric parts from dust.

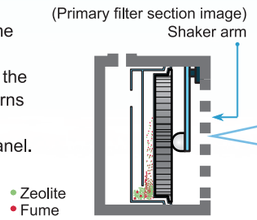
Filtration rate: Above: 99% for 0.3μ particulates

Blower

Blower suction pressure automatically increases according to the load of the primary filter.
Suction power is not affected by accumulated loads.

Filter Cleaning Function [Vibration Type]

When the device stops after cumulative operating time exceeds any preferred setting, the shaker arm automatically vibrates the back of the filter. It causes the primary layer of the filter to peel off/drop off, and returns the filter to its initial condition.
The shaker can also be manually operated via the panel.

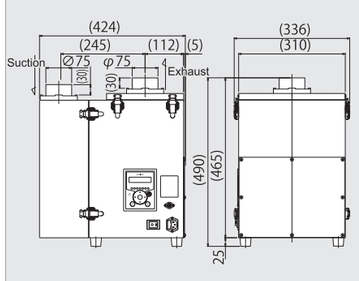


High speed automatic shaking function

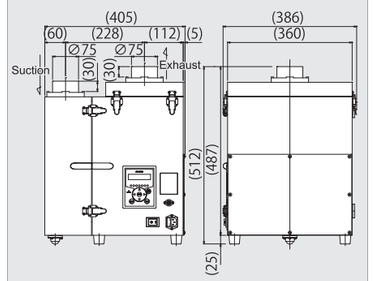
We have accelerated the shaking process after the device switches off to 20 seconds (previously lasted 55 seconds). It improved operational efficiency and enhanced dust removal performance.　*Compared with our old model

Dimensions

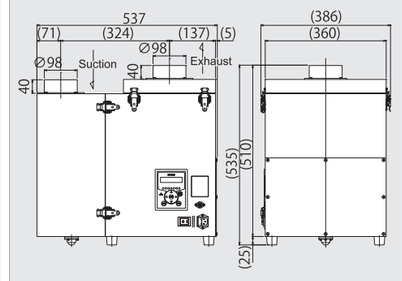
CBA-750AT3-HC-DSA-V1



CBA-1000AT3-HC-DSA-V1



CBA-1500AT3-HC-DSA-V1



Note: Contents may change without notice.

CHP series

A specialized model for laser processing.
Able to maintain a high suction power for a long time even under conditions where filter clogging is likely to occur, such as extraction of highly sticky fume generated by laser processing or collection of large volume of dust.

CHP-1200AT3-ACC　CHP-1600AT3

Air blower type　High pressure type　24 hours operation　Control panel AT3 panel　Remote control feature　Pulse type　RoHS compliant　Clean room compliant

details P.4-P.5　details P.5

Powerful Clog Resisting Structure

Top level of dust handling ability amounts the others thanks to the large filter filtration area and huge amount of zeolite.

Filter Cleaning with Pulse Air

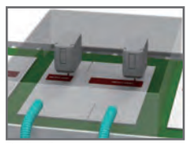
Pre-coated zeolite is removed from the surface of the filter by pulse air (compressed air). (Other air supply source is needed)

Suitable for Multiple Material

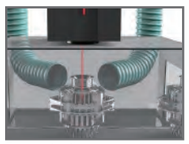
Other than fume, the large volume primary filter room enhance the ability to store particles Metal or glass etc.

List of Applications

Fume extraction when laser cutting lithium-ion battery electrodes



Peeling/flaking ink when marking cardboard



Fume extraction when marking a starter motor

Extraction of fumes during the laser cutting process of interior cutting sheet

Fume extraction during automobile components and material solder processing

Filter Type

Model	Primary filter		Secondary filter	Exhaust filter	Blower cooling filter (suction)	Blower cooling filter (exhaust)	Activated carbon cassette
	Filter model	No.					
CHP-1200AT3-ACC	CS-145-300-75P-R	4	CHF-3030-20	HEP-3535-69	P/S 150N(215×115)	CHF-3517-30	CHP-1215*1
CHP-1600AT3	CS-170-500-63P-R	4	CHF-3030-20	HEP-4040-69	P/S 300N(150×90)	CHF-3517-30	ACC-4343-BOX

*1 Activated carbon (Model: YAC-10000) can also be separately purchased.

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *2	Suction port (hose) size	Separately sold suction port (available size)	Compressed air consumption volume	Compressed air pressure
CHP-1200AT3-ACC	1200W	200V single phase	50/60	11.0A	5.5 ㎥ /min	13.5kPa	54-65dB	φ100	φ65·φ50·φ38	approx. 24L /cycle	0.3～0.4Mpa
CHP-1600AT3	1200W	200V single phase	50/60	15.0A	7.0 ㎥ /min	9.5kPa	60-68dB	φ100	φ65·φ50·φ38	approx. 27L /cycle	0.4～0.5Mpa

Model	200-230V compliant	CE compliant	Panel	Power cable	Filter cleaning function	Remote *3 control feature	Clean room compliant	Primary filter capacity *4	Mass	Main body dimensions (D×W×H)
CHP-1200AT3-ACC	Standard	—	AT3	3m	Pulse air type	○	○	11.5L	130.0kg	520×617×1352mm
CHP-1600AT3	Standard	—	AT3	3m	Pulse air type	○	○	34L	160.0kg	680×620×1465mm

*1 Maximum specified pressure：13kpa
*2 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port. (Pulse noise not included)
*3 Separately sold remote cable is needed.　*4 The dust collectable capacity is about 70% of the withdrawal capacity as a guide.

Structure and Features

Primary Filter

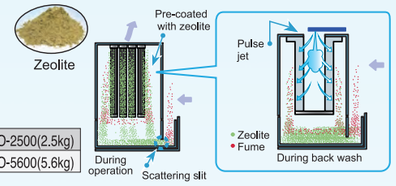
■**Teflon Microporous Membrane Filter**
Highly effective at stripping away dust. Demonstrates maximum cleaning capability with the filter cleaning function.

■**Zeolite is pre-coated using a proprietary scattering mechanism**
【Patents acquired】
Fumes and dust particles generated by laser marking are effectively adsorbed and collected with the precoating zeolite on the 0.3μ99.5% filtration rate filter.

Filtration rate: Above: 99.5% for 0.3μ particulates

■Zeolite model

CHP-1200AT3-ACC	ZEO-2500(2.5kg)
CHP-1600AT3	ZEO-5600(5.6kg)



Airborne fumes and dust particles are sucked in by the suction blower, then stirred up with zeolite from the scattering port and coated on the filter.

Exhaust Filter

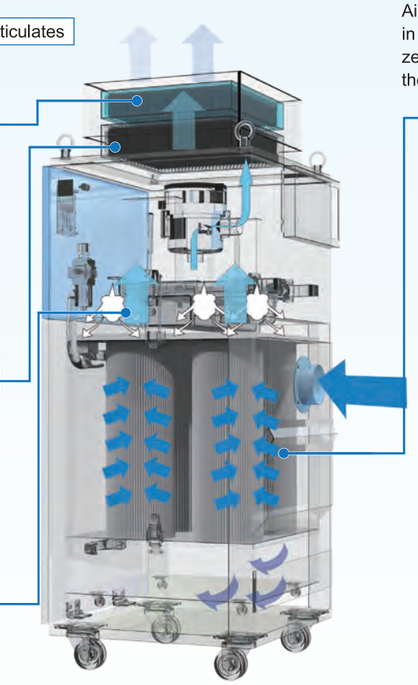
Prevent dust released from the motor, enable the device to be used inside a clean room.

Filtration rate:
Above: 99% for 0.3μ particulates

Clean class:
100,000~10,000

Activated Carbon Cassette

Deodorizing activated carbon is installed for removal of odor of the fume.



Protective Filter

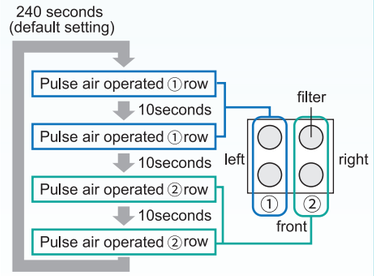
Collect the particles that are not collected in the primary filter.

Filtration rate:
Above: 99% for 0.3μ particulates

Filter Cleaning Function [Pulse Type]

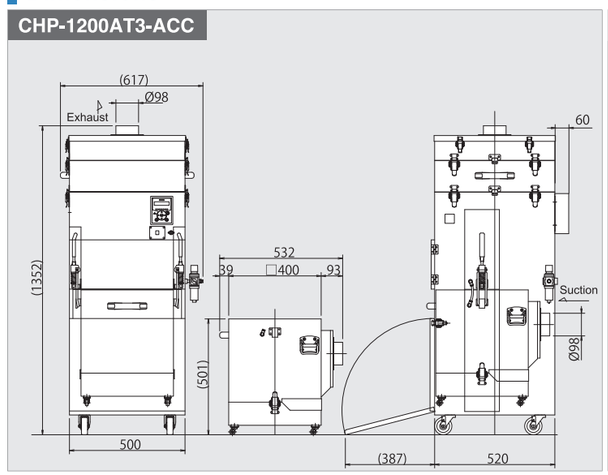
Our original developed consecutive pulse air (compressed air) cleaning system.

Can be changed between 10~9000 seconds
*Default setting is 240 seconds.

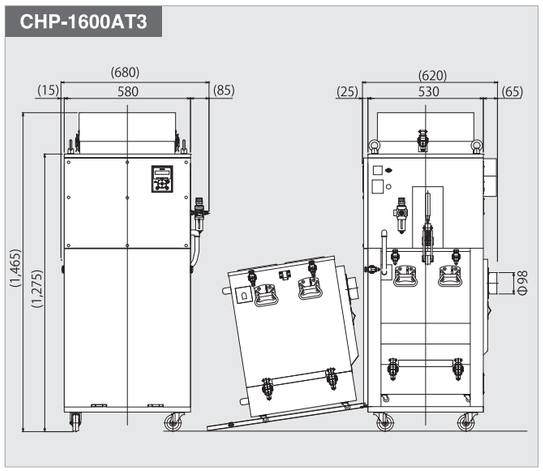


Dimensions

CHP-1200AT3-ACC



CHP-1600AT3



Note: Contents may change without notice.

CKU series

Dust collector for laser marking equipment with relatively short operating time.
Suitable for dust collection with low viscosity fumes, such as metal and glass.

CKU-060AT3-ACC

Air blower type · For general environment · RoHS compliant · CE compliant · 24 hours operation

Control panel AT3 panel
details P.4-P.5

Remote control feature
details P.5

Structure and Features

Pre-filter (Primary Filter)

The specially designed structure causes dust collision and buffering. The particles become larger and are caught by the primary filter.
The primary filter is an easily replaceable cassette type with a shape.

■ Primary filter model <pre-filter>
CHF-2222-40
Filtration rate: Above: 80% for 45μ particulates

Activated Carbon Filter (Secondary Filter)

Any fine particles not trapped by the primary filter collide with the granular activated carbon and are trapped as they pass through. Odor is removed at the same time.

■ Secondary Filter model < activated carbon volume about 1.6kg (secondary filter)>
ACC-2525-75ST

High Performance Filter (Tertiary Filter)

As dust is adsorbed from the activated carbon filter, the air is cleaned and expelled as exhaust. Any dust particles not trapped by the secondary filter are caught by the high-performance filter. Prevents activated carbon particles from coming into the blower side.

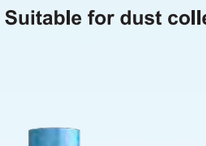
■ Tertiary filter model < high-performance filter>
CHF-2525-50
Filtration rate: Above: 99% for 0.3μ particulates

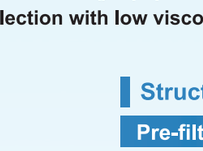
Detachable Flange

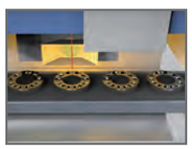
The size of the flange at the suction port can be changed with a single touch.

■ Easily detachable flange model (sold separately)
φ38：FRJ-D-38-35-92　φ50：FRJ-D-50-35-92

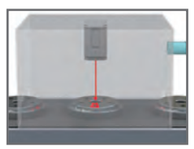
List of Applications


Fume extraction when marking metal workpiece


Fume extraction when marking bearings


Fume extraction when marking bearings


Removing fumes caused by laser marker


Fume extraction when marking drum brake

List of Specifications

Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure
50W	100V single phase	50/60	2.3A	2.8 ㎥ /min	2.5kPa

Noise level *1	Suction port (hose) size	Separately sold suction port (available size)	200-230V compliant	CE compliant
53-61dB	φ65	φ50・φ38	○	○

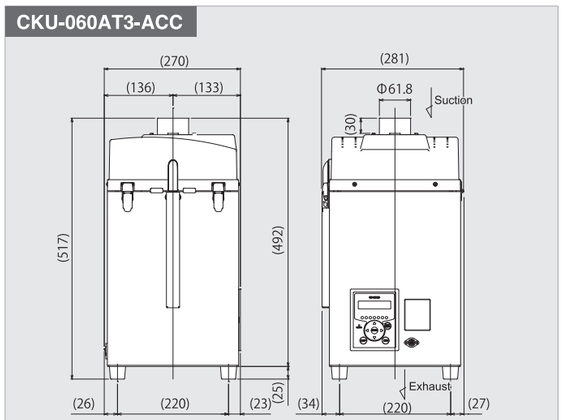
Panel	Power cable	Remote *2 control feature	Clean room compliant
AT3	3m	○	—

Mass	Main body dimensions (D×W×H)
15.8kg	270×281×517mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.
*2 Separately sold remote cable is needed.

Dimensions

CKU-060AT3-ACC



Note: Contents may change without notice.

CBD series

Suitable for laser marking and laser peeling processes where dust is generated in large quantities.
Equipped with a high static pressure blower, able to maintains suction power even when used with a small diameter nozzle.

CBD-1000AT3-DSA-J

Ultra-high pressure type · Back wash type · Clean room compliant · 24 hours operation

Control panel AT3 panel
details P.4-P.5

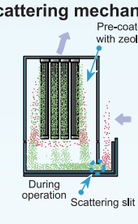
Remote control feature
details P.5

Structure and Features

Primary Filter

■**Teflon Microporous Membrane Filter**
Highly effective at stripping away dust. Demonstrates maximum cleaning capability with the filter cleaning function.

■**The zeolite is pre-coated using a proprietary scattering mechanism.【Patents acquired】**
Fumes and dust particles generated by laser marking are effectively adsorbed and collected by precoating the filter with zeolite for 99.99% or higher for particulates of 0.5μ.




Zeolite
ZEO-2500(2.5kg)

Airborne fumes and dust particles are sucked in by the suction blower, then stirred up with zeolite from the scattering port and coated on the filter.

■ Primary filter model
CS-250-300-93P-R/ Quantity：1
Filtration rate: Above: 99.9% for 0.5μ particulates

Secondary Filter

Protects electric parts from dust.

■ Secondary filter model
CHF-2525-50
Filtration rate: Above: 99% for 0.3μ particulates

Activated Carbon Cassette

Odor-absorbing cassette type.
Easy to replace.

■ Activated carbon model
ACC-3220-100

Exhaust Filter

Equipped with a HEPA filter and can be used inside a clean room.

■ Exhaust filter model
HEP-3220-69
Filtration rate: Above: 99.97% for 0.3μ particulates
Clean class: 100,000-10,000

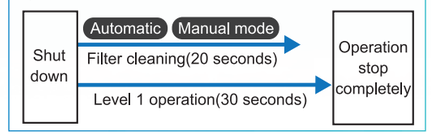
Blower Cooling filter

■ Blower cooling suction filter
AE-100(113×47)
■ Blower cooling exhaust filter
HEP-1293-34
Filtration rate:
Above: 99.97% for 0.3μ particulates

Filter Cleaning Function [Gyro Air Type]

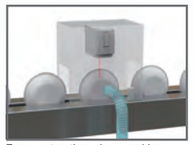
Inbuilt mechanism of filter cleaning for approx. 20 seconds.
In automatic filter cleaning mode, the device will operate at Level 1 for approx. 30 seconds to prevent reverse flow.

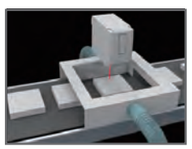
Automatic filter cleaning mode is operated when:
1) The device is OFF after cumulative operation time exceeds 1 hour
2) The device is switched to Level 1 by remote operation



List of Applications


Fume extraction when cutting lithium-ion battery electrodes


Fume extraction when marking production date on cup noodle pack


Collection of dust & fumes from silicon isolator


Extraction of fumes during the laser cutting process of interior cutting sheet


Fume extraction when laser marking medical product label

List of Specifications

Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *1
1200W	200V single phase	50/60	11.0A	4.3 ㎥ /min	12.5kPa	55-70dB

Suction port (hose) size	Compressed air consumption volume	Compressed air pressure	200-230V compliant
φ75	approx.70L/operation	0.4～0.5Mpa	Standard

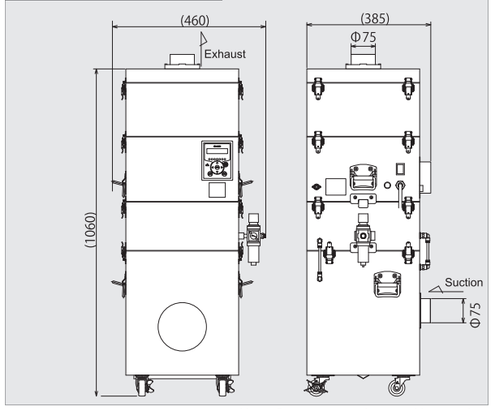
CE compliant	Panel	Power cable	Filter cleaning function	Remote *2 control feature	Clean room compliant
—	AT3	5m	Gyro Air Type	○	○

Dust collection volume capability	Mass	Main body dimensions (D×W×H)
3.5L	53.5kg	460×385×1060mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port. (Pulse noise not included)
*2 Separately sold remote cable is needed.

Dimensions

CBD-1000AT3-DSA-J



Note: Contents may change without notice.

CMP series

CMP series dust collectors are medium size with medium pressure / high air blower capability. Suitable for sucking in surrounding air by using a hood with large diameter or by branching to multiple hoses.

CMP-2500AT3-A　CMP-750AT3N　CMP-1500AT3N

Easy Dust Recycle

The dedicated antistatic plastic bag (garbage bag) ensures dust can be easily disposed of. This material prevents static electricity being generated and minimizes scattering of dust when collected dust is withdrawn.

*Except CMP-2500AT3-A

Enhanced Compatibility with Options

Complies with Cleanliness Class 1,000-100

HEPA filter can be installed with custom specifications.
Suitable for clean room.

Exhaust Flange

Exhaust can be directed outside by attaching a flange to the exhaust port.

Air blower type　Medium pressure type

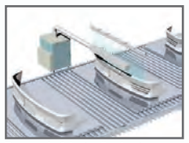
24 hours operation　Control panel AT3 panel details P.5-P.6　Remote control feature details P.6　Pulse type　RoHS compliant　For general environment　CE compliant *CMP-2500AT3-A only　Clean room compliant *Custom model (-V1) only

List of Applications

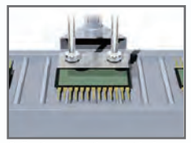
Removal of dust particles created by cutting lithium-ion battery electrodes

Handling floating dust during rechargeable battery winding process

Removal of dust from car components with air blower



Removal of dust adhering to car bumper with static elimination air blower



Collection of floating dust before pasting on LCD panels

Filter Type

Model	Primary filter		Exhaust HEPA filter *1	Inverter cooling filter		Blower cooling filter
	For standard/custom model	Number		Inverter cooling filter	Inverter cooling filter(OP)	
CMP-750AT3N	CS-175-300-63P-R	4	HEP-5040-80	PS300N (90×150)	HEP-1293-34	—
CMP-1500AT3N	CS-175-500-63P-R	4	HEP-5040-80	PS300N (90×150)	HEP-1293-34	—
CMP-2500AT3-A	CS-170-500-63P-R	4	HEP-5040-80	—	—	CHF-3517-30

*1 For clean class 1,000~100 compliance option model.

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise *1 level	Suction port (hose) size	Compressed air consumption volume	Compressed air pressure
CMP-750AT3N	1000W	200V three phase	50/60	6.5A	17.5㎥/min	5.0kPa	57-68dB	φ125	17L/min	0.4 ～ 0.5Mpa
CMP-1500AT3N	1500W	200V three phase	50/60	9.3A	27.5㎥/min	5.0kPa	57-68dB	φ150	17L/min	0.4 ～ 0.5Mpa
CMP-2500AT3-A	2800W	200-230V three phase	50/60	16.0A	30.0㎥/min	5.5kPa	65-69dB	φ150	27L/cycle	0.4 ～ 0.5Mpa

Model	200-230V compliant	CE compliant	Panel	Power cable	Filter cleaning function	Remote *3 control feature	Clean room compliant	Primary filter capacity *4	Mass	Main body dimensions (D×W×H)
CMP-750AT3N	Standard	—	AT3	5m	Pulse air type	○	Option	20L	125.0kg	580×581×1265mm
CMP-1500AT3N	Standard	—	AT3	5m	Pulse air type	○	Option	20L	133.0kg	580×581×1465mm
CMP-2500AT3-A	Standard	○	AT3	— *2	Pulse air type	○	Option	14L	135.0kg	588×627×1459mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port. (Pulse noise not included)
*2 Power cable is not included for CMP-2500AT3-A.　*3 Separately sold remote cable is needed.　*4 The dust collectable capacity is about 70% of the withdrawal capacity as a guide.
• "-V1" is added to the end of the product model for custom product (compatible with cleanliness class 1000).
• "-E" is added to the end of the product model for custom product (conductive painting type).

Structure and Features

Primary Filter

Teflon microporous cylindrical filter. Effective filter for pulses filter cleaning.

Filtration rate: Above: 99.9% for 0.5μ particulates
*CMP-750AT3N　*CMP-1500AT3N

Filtration rate: Above: 99.5% for 0.3μ particulates
*CMP-2500AT3-A

High Efficiency Motor

Compact design achieved through installation of high efficiency PM motor. Installation space is approximately half the amount required for the others available three-phase induction motor.

Dust Box

Carefully designed structure minimizes scattering of dust when opening/closing the drawer. Collected dust is stored in a specified antistatic plastic bag, which is easy to replace.

■Antistatic plastic bag (Common type for standard / custom model)

CMP-750AT3N	DP-1055-450E
CMP-1500AT3N	DP-1055-450E

*CMP-2500AT3-A does not equip with a plastic bag.

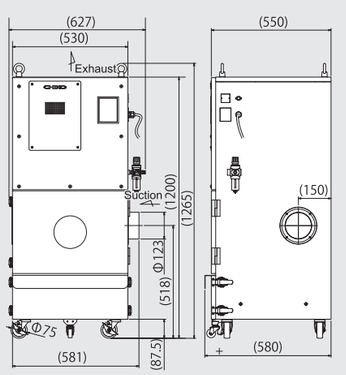
Dust collection is possible from either side.

Filter Cleaning Function [Pulse type]

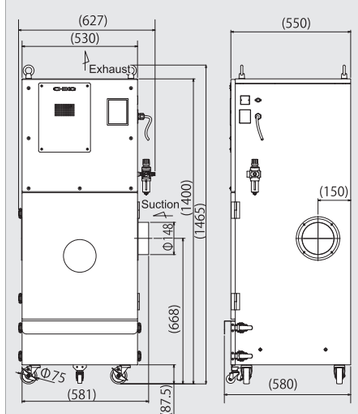
Filter cleaning is carried out using pulse air (compressed air) to ensure suction power is not diminished. The large capacity pulse jet helps to maintain the filter in a clean condition.

Dimensions

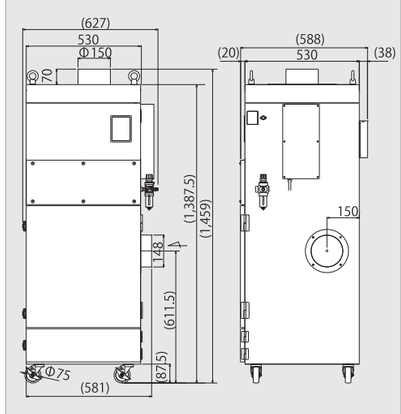
CMP-750AT3N



CMP-1500AT3N



CMP-2500AT3-A



Note: Contents may change without notice.

CKU series

Compact, low-cost, high suction power dust collector.
Two-way type dust collector can be installed either horizontally or standing upright.

CKU-050-SP-HI

Air blower type · 24 hours operation · RoHS compliant · For general environment

Structure and Features

Primary Filter

Filter bag is made of five layers of nonwoven polypropylene fabric. The five layers have different air permeation rates to minimize clogging. The filter also offers high overall strength which does not tear easily like a paper pack.

■ Primary filter model

FB-25

Filtration rate: Above: 95% for 45μ particulates

Secondary Filter

Nonwoven polypropylene fabric is formed into a pleated filter. The frame is molded in ABS resin.

■ Secondary filter model

CHF-2525-50

Filtration rate: Above: 99% for 0.3μ particulates

Detachable Flange

The size of the flange can be changed with a single touch.

■ Easy detachable flange model (sold separately)

ϕ38：FRJ-D-38-35-92

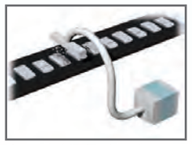
2 Way Type

Two-way setup dust collector can be installed either horizontally or standing upright.

Compact

Installation area 280 × 276mm, height 352 mm. Low cost and high suction power (2.5 kPa). It is also extremely light, with a total weight of 8.5 kg.

List of Applications



Removal of dust particles from mobile phone surface prior to painting with air blower & static elimination

Collecting floating dust when air blowing adhered particles

Collecting floating dust when attaching labels

List of Specifications

Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure
50W	100V single phase	50/60	2.3A	2.6 ㎥/min	2.5kPa

Noise level *1	Suction port (hose) size	Separately sold suction port (available size)	200-230V compliant	CE compliant
57dB	φ50	φ38	—	—

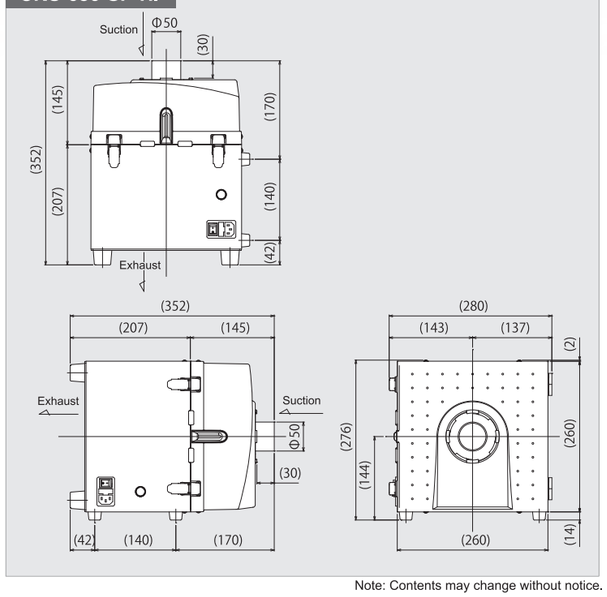
Panel	Power cable	Remote control feature	Clean room compliant	Primary filter capacity
—	3m	—	—	2.5L

Mass	Main body dimensions (D×W×H)
8.5kg	352×280×276mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.

Dimensions

CKU-050-SP-HI



Note: Contents may change without notice.

CHV series

Ultra-compact dust collector which can be installed inside other equipment in the production line. It can also be used for cleaning purpose for equipment inside cleanrooms. Complies with clean room specifications and is made of materials that do not create dust anywhere in the main body. The casing has an aluminum baked coating.

CKU-050-SP-HI / CVH-030AD-HI-V1

Structure and Features

Primary Filter

Filter bag is made of five layers of nonwoven polypropylene fabric. The five layers have different air permeation rates to minimize clogging. The filter also offers high overall strength which does not tear easily like a paper pack.

■ Primary filter model

FB-15

Filtration rate: Above: 95% for 45μ particulates

Secondary Filter

Nonwoven polypropylene fabric is formed into a pleated filter. The frame is molded in ABS resin.

■ Secondary filter model

HEP-1714-30

Filtration rate: Above: 99.9% for 0.3μ particulates

Exhaust Filter

The HEPA filter provided as standard equipment. Able to be used inside clean rooms.

■ Exhaust filter model

HEP-1714-30

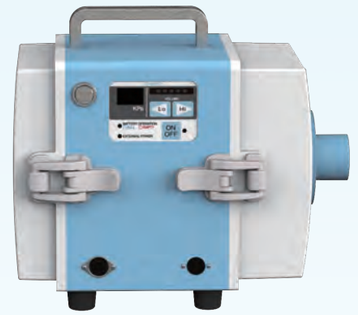
Filtration rate: Above: 99.9% for 0.3μ particulates

Clean class: 1,000

The Smallest Dust Collector in the Industry *1

This is the industry's smallest high pressure dust collector, with size of 267x183x230 mm.
The product is exceptionally light and weighs only 2.4(2.38)kg. It also has a handle to make it easy to carry.

*1 (As of January 21, 2013, according to our company survey)



CHV-030AD-HI-V1

High pressure type · 24 hours operation · RoHS compliant · Clean room compliant

Control panel AD panel · Remote control feature

details P.7 details P.7

AC adaptor (sold separately)

Adaptor for AC100V (24V 6.67A)
Model For 100V : CHV-030AD-100V-Adapter
For 200V : CHV-030AD-200V-Adapter

Adaptor for 200-240V is without plug-socket. Separate connector is required for a DC power source. (Manufacturer: KYCON Model: KPPX-4P)

List of Specifications

Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure
—	DC24V	50/60	5.8A	0.8 ㎥/min	8.5kPa

Noise level *1	Suction port (hose) size	Separately sold suction port (available size)	200-230V compliant	CE compliant
56-68dB	φ38	—	○	—

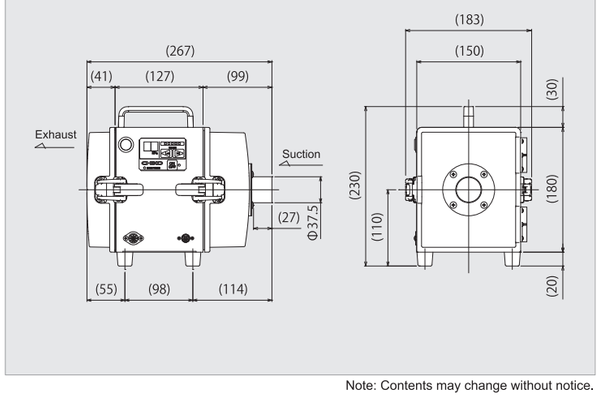
Panel	Power cable	Remote control feature *2	Clean room compliant	Primary filter capacity
AD	—	○	○	0.5L

Mass	Main body dimensions (D×W×H)
2.4kg	267×183×230mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.
*2 Separately sold remote cable is needed.

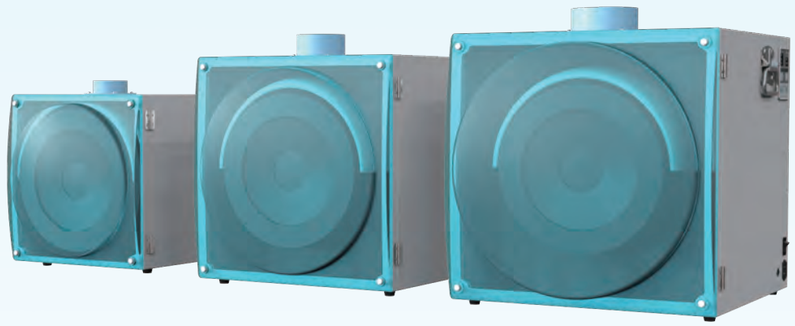
Dimensions

CHV-030AD-HI-V1



Note: Contents may change without notice.

High performance dust collector for general environments.
The filter can easily be replaced by opening the skeleton panel at the front. The primary filter is a bag type, so can easily be replaced without getting your hands dirty. In addition, the secondary filter incorporates a cylindrical filter for improved air flow efficiency. This ensures that the dust collector is very powerful despite its compact size.



SK-250AT SK-450AT-HI SK-750AT-PM

Air blower type
24 hours operation
Control panel AT panel
details P.7
Remote control feature
details P.7
RoHS compliant
For general environments
CE compliant

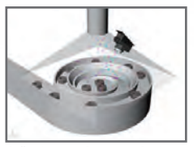
SK Series

The front opening is made of transparent polycarbonate resin, so you can check the status of the filters during operation.

List of Applications

Removal of dust adhering to cosmetic bottle lid or compact surface with air blower & static elimination

Removal of dust when molding mold with air blower



Collecting dust from parts feeder with static elimination

Removal of dust from circuit board with air blower

List of Specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level *1	Suction port(hose) size
SK-250AT	250W	100V single phase	50/60	6.5A	5.5m³/min	1.85kPa	50-67dB	φ75
SK-450AT-HI	500W	100V single phase	50/60	10.0A	9.5m³/min	2.5kPa	57-68dB	φ100
SK-750AT-PM	500W	200V single phase	50/60	7.0A	13.0m³/min	3.4kPa	60-64dB	φ125

Model	200-230V compliant	CE compliant	Panel	Power cable	Remote control feature *2	Clean room compliant	Primary filter capacity	Mass	Main body dimensions (D×W×H)
SK-250AT	○	○	AT	3m	○	—	3.0L	22.3kg	376×396×424mm
SK-450AT-HI	○	○	AT	3m	○	—	5.0L	36.5kg	493×476×514mm
SK-750AT-PM	Standard	○	AT	3m	○	—	8.0L	48.0kg	581×526×579mm

*1 Measurements obtained in Scale A (dBA) from a randomly selected position at a distance of 1m using a unit with a hose connected to its suction port.
*2 Separately sold remote cable is needed.

Structure and Features

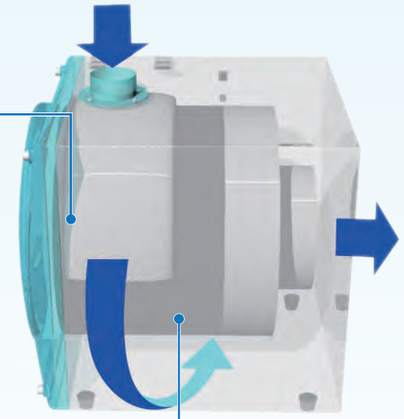
Primary Filter

Filter bag is made of five layers of nonwoven polypropylene fabric. The five layers have different air permeation rates to minimize clogging. The filter also offers high overall strength which does not tear easily like a paper pack.

■Primary filter model

SK-250AT	FB-700-16
SK-450AT-HI	FB-700-22
SK-750AT-PM	FB-900-25

Filtration rate: Above: 95% for 45μ particulates



Secondary Filter

Polyester molding filter installed. The outside frame of the filter is made of ABS resin and is designed to ensure easy maintenance.

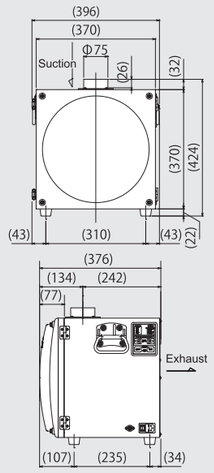
■Secondary filter model

SK-250AT	CS-300-150
SK-450AT-HI	CS-300-200
SK-750AT-PM	CS-300-250

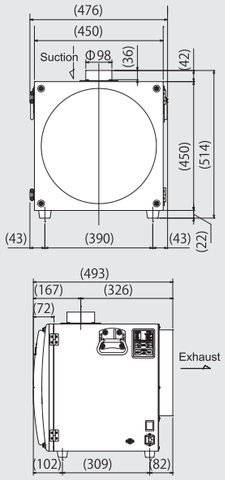
Filtration rate: Above: 99% for 10μ particulates

Dimensions

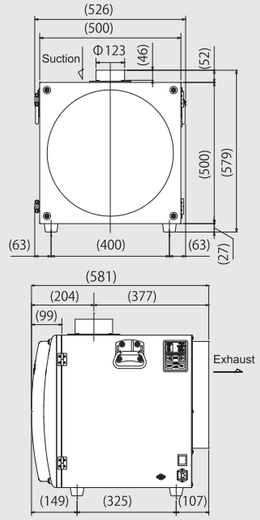
SK-250AT



SK-450AT-HI



SK-750AT-PM



Note: Contents may change without notice.

Cyclone series

Stainless steel-type is standard for each model. The lower part of the tank is also made of stainless steel. Both surfaces of the cyclone are polished to reduce dust adhesion to the surface walls. Low cost resin type SCC-60 and SS type SCC-150 are also available.

All Stainless — SCC-60-13-SUS / SCC-150-13-SUS / SCC-300-24-SUS

RoHS compliant

SCC-60-13-SUS
0.8-1.5㎥/min
Suction port (hose) size:φ38
Tank volume:13L
Mass:6.0kg

SCC-150-13-SUS
For 1.5-3.0㎥/min use
Suction port (hose) size:φ50
Tank volume:13L
Mass:6.7kg

SCC-300-24-SUS
For 3.5-6.5㎥/min use
Suction port (hose) size:φ75
Tank volume:24L
Mass:11.0kg

Reduces Load on Dust Collector

With the excellent dust separation performance, the cyclone can enable a significant reduction in load on the dust collector. It can help to prevent filter clogging when the dust volume is large.

Easy Maintenance

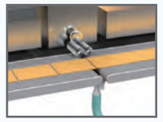
The cyclone head can be detached easily by removing the catch clip. This enables the whole unit to be washed.

Optional stainless steel tank with observation window is also available, so you can visually check the amount of dust trapped inside the tank during operation.
* The inner surface of the observation window option tank is not polished.

■Materials

Cyclone body	**SUS304**
Lower tank section	**SUS316**
Wheeled platform	**SUS304**

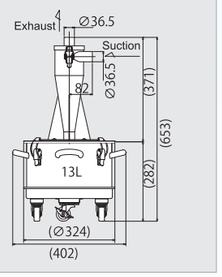
List of Applications



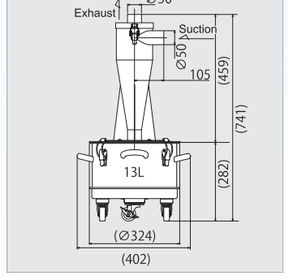
Removal of large amount of dust created through dividing boards

Dimensions

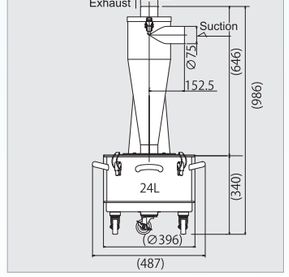
SCC-60-13-SUS



SCC-150-13-SUS



SCC-300-24-SUS



* Our dust collectors cannot be connected up for sucking up liquids.
* The product is capable of a speed of 13-25m/sec at the inlet port. A pressure loss of approx. 1.5 kPa occurs at 17m/sec.
*Contents may change without notice.

Stainless Steel ＋Chrome Plating — SCC-150-8

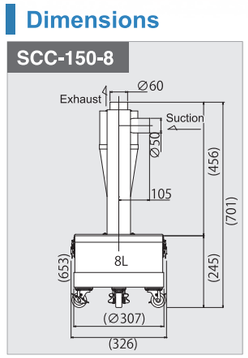
RoHS compliant

Upper lower separable

SCC-150-8
For 1.5-3.0㎥/min use
Suction port (hose) size:φ50・φ60
Tank volume:8L
Mass:9.0kg

Dimensions

SCC-150-8



* Our dust collectors cannot be connected up for sucking up liquids.
* The product is capable of a speed of 13-25m/sec at the inlet port. A pressure loss of approx. 1.5 kPa occurs at 17m/sec.
*Contents may change without notice.

Stainless Steel ＋Chrome Plating Processing

The main body has been treated with stainless steel and chrome plating to ensure dust slips off the inner surface.

Polycarbonate — SCC-60-10

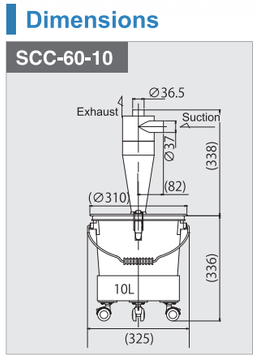
RoHS compliant

Upper lower separable

SCC-60-10
For 0.8 ～ 1.5㎥/min use
Suction port (hose) size:φ38
Tank volume:10L
Mass:5.5kg

Dimensions

SCC-60-10



* Our dust collectors cannot be connected up for sucking up liquids.
* The product is capable of a speed of 13-25m/sec at the inlet port. A pressure loss of approx. 1.5 kPa occurs at 17m/sec.
*Contents may change without notice.

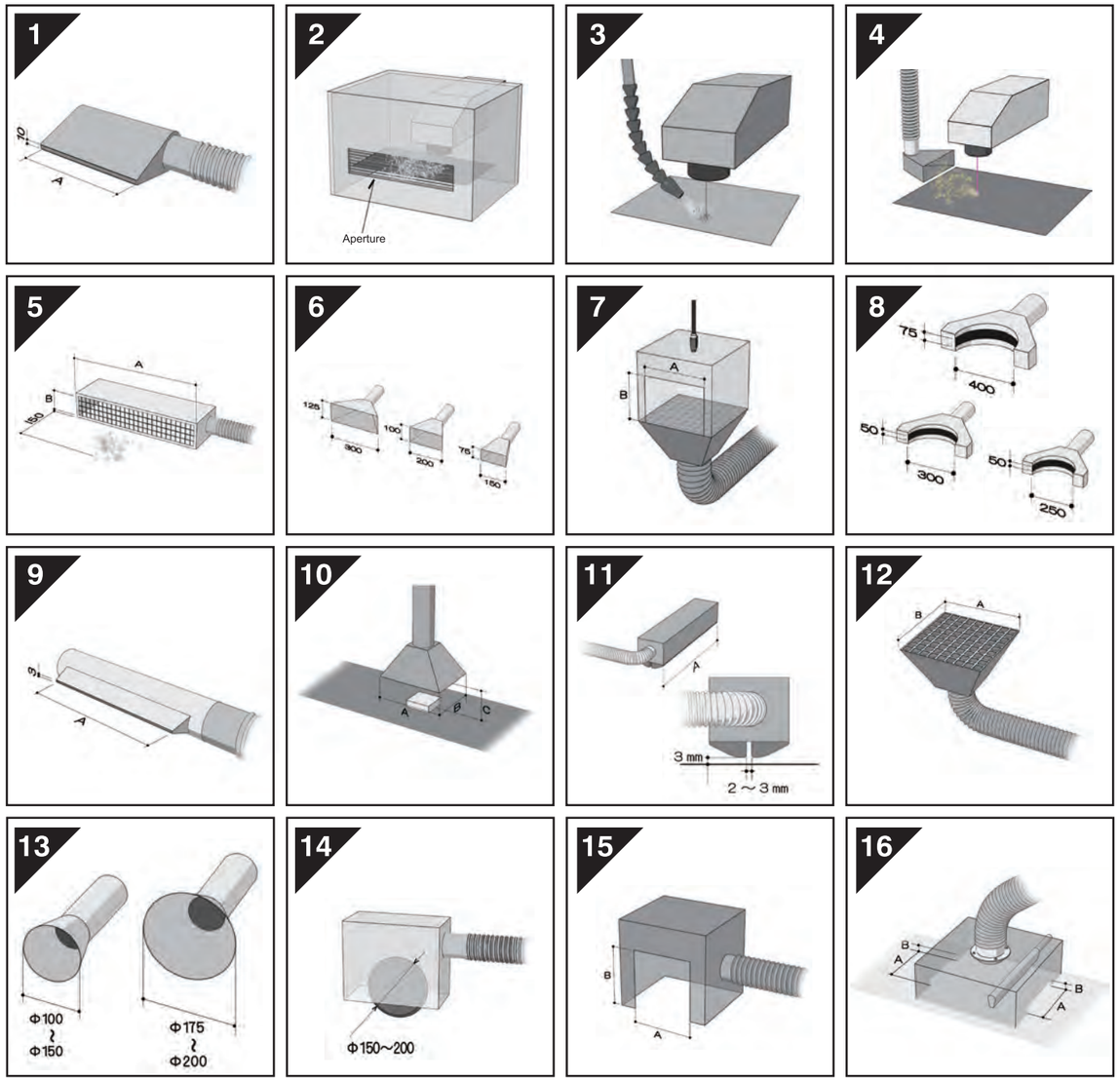
Caution: If static electricity is a concern, please use an all stainless steel specification model.

*Contents may change without notice.

HOOD

Various Shapes of Suction Hood [Example]

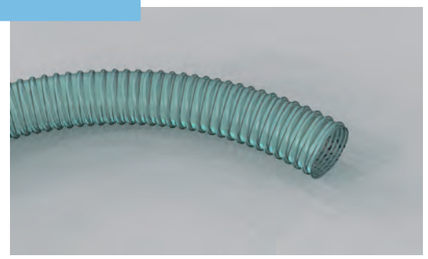
List of hood aperture shapes



Note: Hoods are treated as a custom order. Please contact us.

HOSE

Suction Hose and Hose Band



Antistatic clean hose model			Hose band model	
1m	2m	3m	Plating type	Stainless steel type
TAC-AS-φ38-1m	TAC-AS-φ38-2m	TAC-AS-φ38-3m	SY-φ38	SY-φ38-SUS
TAC-AS-φ50-1m	TAC-AS-φ50-2m	TAC-AS-φ50-3m	SY-φ50	SY-φ50-SUS
TAC-AS-φ65-1m	TAC-AS-φ65-2m	TAC-AS-φ65-3m	SY-φ65	SY-φ65-SUS
TAC-AS-φ75-1m	TAC-AS-φ75-2m	TAC-AS-φ75-3m	SY-φ75	SY-φ75-SUS
TAC-AS-φ100-1m	TAC-AS-φ100-2m	TAC-AS-φ100-3m	SY-φ100	SY-φ100-SUS
TAC-AS-φ125-1m	TAC-AS-φ125-2m	TAC-AS-φ125-3m	SY-φ125	SY-φ125-SUS

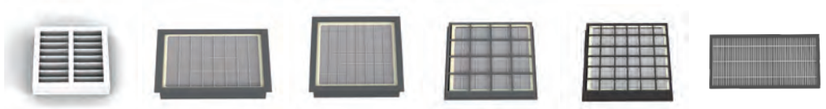
FILTER

Filter Bags

Model	Configuration	Dimensions (length×width) mm	Filter capacity	Material	Filtration rate	Maximum allowable working temperature	Compatible models
FB-15	Nonwoven cloth	160×130	0.5ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	CHV-030AD-HI-V1
FB-25	Nonwoven cloth	250×300	2.5ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	CKU-080AT3-HC / CBA-080AT3-HI / CKU-050-SP-HI
FB-30	Nonwoven cloth	300×300	4.5ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	CKU-240AT3-HC / CBA-500AT3-HI / CBA-1200AT3-HI-V1
FB-700-16	Nonwoven cloth	700×160	3ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	SK-250AT
FB-700-22	Nonwoven cloth	700×220	5ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	SK-450AT-HI / CKU-450AT3-HC / CBA-2000AT3-HI-V1(☆)
FB-900-25	Nonwoven cloth	900×250	8ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	SK-750AT-PM
FB-700-33-125	Nonwoven cloth	700×330	15ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	CKU-750AT3-HC
FB-900-33-125	Nonwoven cloth	900×330	20ℓ	Polypropylene + cardboard	45μ 95% or above	60℃	SHP-1200AT3-FB

*(☆) Discontinued model

High Performance Filter



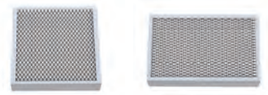
Model	Configuration	Dimensions (length×width) mm	Filter frame material	Material	Filtration rate	Maximum allowable working temperature	Compatible models
CHF-2222-40	Mini pleat	220×220×40	Cardboard	Polypropylene	45μ 80% or above	60℃	CKU-060AT3-ACC
CHF-2030-50-F1	Mini pleat	200×300×50	ABS	Polyester + PTFE	0.3μ 99% or above	60℃	CBA-1000AT3-HC-DSA-V1 / CBA-1500AT3-HC-DSA-V1
CHF-2525-50	Mini pleat	250×250×50	ABS	Polypropylene	0.3μ 99% or above	60℃	CKU-080AT3-HC / CBA-080AT3-HI / CKU-050-SP-HI / CKU-060AT3-ACC / CBD-1000AT3-DSA-J / SHP-1000AT3 / SHP-1200AT3 / SHP-1200AT3-FB
CHF-3030-50	Mini pleat	300×300×50	Polypropylene	Polypropylene	0.3μ 99% or above	60℃	CKU-240AT3-HC / CBA-500AT3-HI / CBA-1200AT3-HI-V1
CHF-3535-70	Mini pleat	350×350×70	ABS	Polypropylene	0.3μ 99% or above	60℃	CKU-450AT3-HC / CBA-2000AT3-HI-V1(☆)
CHF-4040-30	Mini pleat	400×400×30	Cardboard	Polypropylene	45μ 80% or above	60℃	CHP-1200AT3-ACC / CHP-1600AT3
CHF-3030-20	Mini pleat	300×300×20	Cardboard	Polypropylene	0.3μ 99% or above	70℃	CHP-1200AT3-ACC / CHP-1600AT3
CHF-3535-95	Mini pleat	350×350×95	Aluminum	PET + PTFE	0.3μ 99% or above	60℃	CKU-750AT3-HC
CHF-3517-30	Mini pleat	350×170×30	Cardboard	Polypropylene	0.3μ 99% or above	70℃	CMP-2500AT3-A / CHP-1200AT3-ACC / CHP-1600AT3

*(☆) Discontinued model

Activated Carbon Cassette

Model	Configuration	Dimensions (length×width) mm	Filter frame material	Material	Filtration rate	Maximum allowable working temperature	Compatible models
ACC-3220-100	Cassette type	320×200×100	Cardboard	Fibrous activated carbon + granular activated carbon	—	60℃	CBA-1000AT3-HC-DSA-V1 / CBD-1000AT3-DSA-J
ACC-2525-75ST	Cassette type	250×250×75	SPCC	Fibrous activated carbon	—	80℃	CKU-060AT3-ACC
ACC-3225-125	Cassette type	320×250×125	SPCC	Fibrous activated carbon	—	80℃	CBA-1500AT3-HC-DSA-V1
ACC-4343-BOX	Cassette type	430×430×170	SPCC	Fibrous activated carbon	—	60℃	CHP-1600AT3
ACC-2720-75	Cassette type	270×200×75	Cardboard	Fibrous activated carbon + granular activated carbon	—	60℃	CBA-750AT3-HC-DSA-V1
CHP-1215	Cassette type	505×525×135	SPCC	Fibrous activated carbon	—	60℃	CHP-1200AT3

HEPA Filter



Model	Configuration	Dimensions (length×width) mm	Filter frame material	Material	Filtration rate	Maximum allowable working temperature	Compatible models
HEP-1714-30	Mini pleat	172×142×30	ABS	Polypropylene + PTFE	0.3μ 99.9% or above	60℃	CHV-030AD-HI-V1 / CBA-750AT3-HC-DSA-V1
HEP-2525-50	Mini pleat	250×250×50	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CKU-080AT3-HC-V1 / CBA-080AT3-HI-V1
HEP-3220-69	Mini pleat	200×320×69	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CBA-1000AT3-HC-DSA-V1 / CBD-1000AT3-DSA-J
HEP-3030-69	Mini pleat	300×300×69	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CKU-240AT3-HC-V1 / CBA-500AT3-HC-V1/ CBA1200AT3-HI-V1 / SHP-1000AT3 / CSC-1500TP
HEP-3535-69	Mini pleat	350×350×69	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CKU-450AT3-HC-V1 / SHP-1200AT3 SHP-1200AT3-FB / CHP-1200AT3-ACC
HEP-5040-80	Mini pleat	500×400×80	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CMP-750AT3N(-E)-V1 / CMP-1500AT3N(-E)-V1
HEP-1293-34	Mini pleat	123× 93×34	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CBA-1200AT3-HI-V1 / CBD-1000AT3-DSA-J / CMP-750AT3N(-E)-V1 / CMP-1500AT3N(-E)-V1 / SHP-1000AT3 / SHP-1200AT3
HEP-3225-69	Mini pleat	320×250×69	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CBA-1500AT3-HC-DSA-V1
HEP-4040-69	Mini pleat	400×400×69	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CHP-1600AT3
HEP-3535-96	Mini pleat	350×350×96	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CKU-750AT3-HC-V1
HEP-2720-75	Mini pleat	270×200×75	Aluminum	Glass fiber	0.3μ 99.97% or above	80℃	CBA-750AT3-HC-DSA-V1

Cylinder type filter

Model	Configuration	Dimensions (length×width) mm	Filter frame material	Material	Filtration rate	Maximum allowable working temperature	Compatible models
CS-300-150	Cylinder type	300×150	ABS	Polyester	10μ 99% or above	60℃	SK-250AT
CS-300-200	Cylinder type	300×200	ABS	Polyester	10μ 99% or above	60℃	SK-450AT-HI
CS-300-250	Cylinder type	300×250	ABS	Polyester	10μ 99% or above	60℃	SK-750AT-PM
CS-250-300-93P-R	Cylinder type	250×300	Upper: Steel Lower: Rigid urethane	Polyester spunbond nonwoven cloth + PTFE	0.5μ 99.9% or above	60℃	CBD-1000AT3-DSA-J
CS-200-300-75P-E	Cylinder type	200×300	Upper: Steel Lower: Rigid urethane	Polyester + Metal	5μ 99.9% or above	80℃	SHP-1000AT3
CS-250-300-93P-E	Cylinder type	250×300	Upper: Steel Lower: Rigid urethane	Polyester + Metal	5μ 99.9% or above	80℃	SHP-1200AT3
CS-175-300-63P-R	Cylinder type	175×300	Upper: Steel Lower: Rigid urethane	Polyester spunbond nonwoven cloth + PTFE	0.5μ 99.9% or above	60℃	CMP-750AT3N
CS-175-500-63P-R	Cylinder type	175×500	Upper: Steel Lower: Rigid urethane	Polyester spunbond nonwoven cloth + PTFE	0.5μ 99.9% or above	60℃	CMP-1500AT3N
CS-145-300-75P-R	Cylinder type	145×300	Upper: Steel Lower: ABS	Polyester nonwoven cloth + Teflon Microporous	0.3μ 99.5% or above	60℃	CHP-1200AT3
CS-170-500-63P-R	Cylinder type	170×500	Upper: Steel Lower: ABS	Polyester nonwoven cloth + Teflon Microporous	0.3μ 99.5% or above	60℃	CHP-1600AT3 / CMP-2500AT3-A

Precoat and Cassette Filter

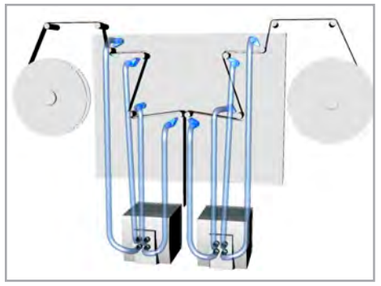
Cassette type filter

Model	Configuration	Dimensions (length×width) mm	Filter frame material	Material	Filtration rate	Maximum allowable working temperature	Compatible models
HDF-3535-120-F1-ZEO	Mini pleat	350×350×124	ABS+ Polycarbonate	Polyester + PTFE + SUS	—	60℃	CBA-1000AT3-HC-DSA-V1
HDF-3535-176-F1-ZEO	Mini pleat	350×350×182	Aluminum + Polycarbonate	Polyester + PTFE + SUS	—	60℃	CBA-1500AT3-HC-DSA-V1
HDF-3030-120-F1-ZEO	Mini pleat	300×300×125	Aluminum + Polycarbonate	Polyester + PTFE + SUS	—	60℃	CBA-750AT3-HC-DSA-V1

*Please contact us for details on viledon filter models

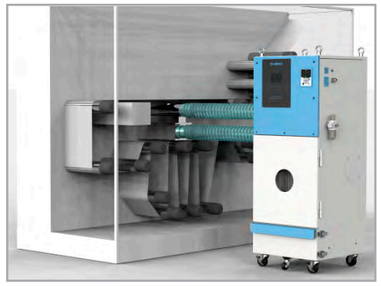
* Contents may change without notice.

Compact Dust Collector of CHIKO AIRTEC is widely utilized in the Rechargeable Battery Production Process

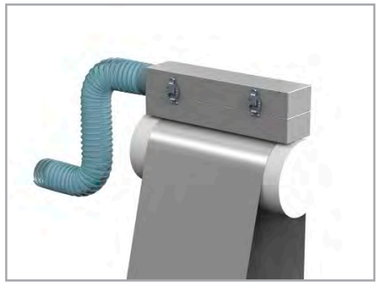


Surface metal powder removal during lithium-ion battery winding process

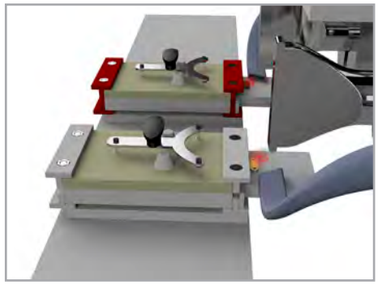
Surface metal powder removal during lithium-ion battery stacking process



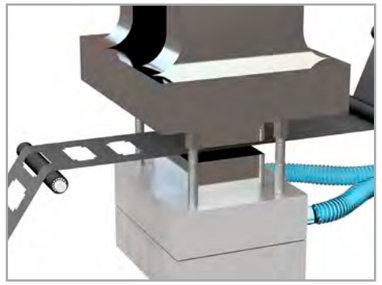
Prevent scatter of dust in the lithium-ion battery conveying and winding process



Removal of dust particles created by cutting lithium-ion battery electrodes

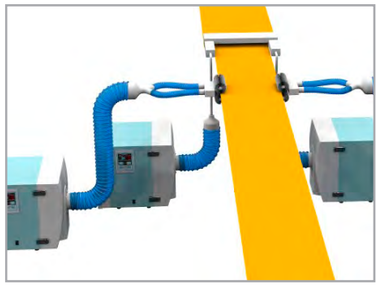


Fume extraction during terminal welding process

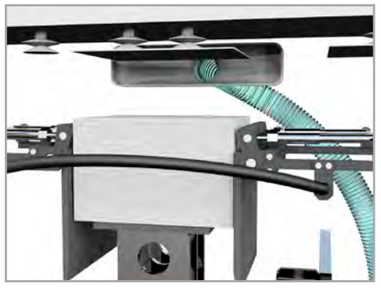


Dust Handling during electrodes stamping process

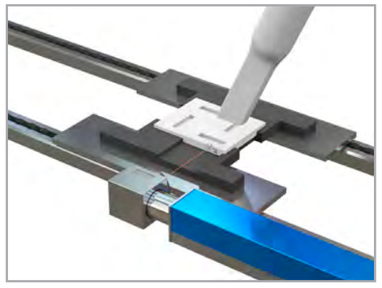
Dust Handling when cutting battery tab or positive/negative electrode material



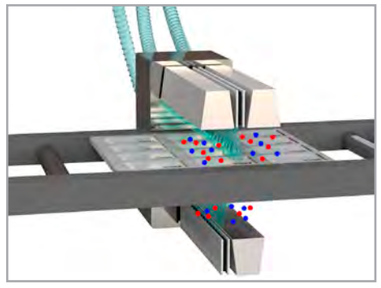
Removal of surface particles after cutting electrodes



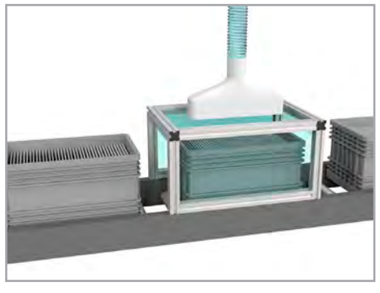
Removal of dust during the electrodes / separator conveying process



Fume extraction during laser marking of cases

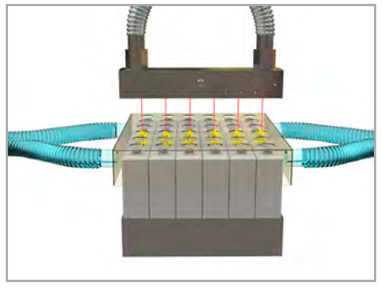


Removal of dust from conveying pallet with static eliminating air blow.

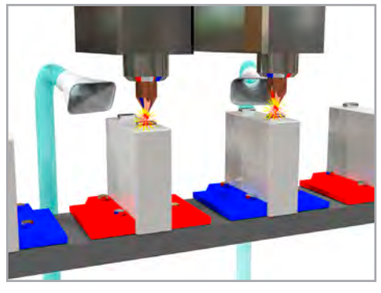


Dust Handling when conveying pallet

Removal of floating dust when conveying workpiece



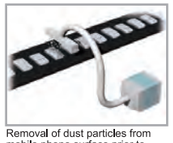
Suction of fumes during laser cleaning



Suction of fumes and dust during laser sealing process

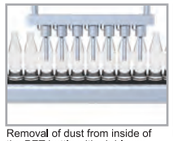
EXAMPLES | List of Applications

Removal of adhering dust with air blower


Removal of dust particles from mobile phone surface prior to painting with air blower & static elimination


Blow off the dirt on mobile phone surface prior to packing with static elimination

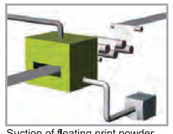

Removal of adhered dust from drinks bottle cap with air blower


Removal of dust from inside of the PET bottle with air blower


Removal of dust adhering to cosmetic bottle lid or compact surface with air blower & static elimination


Removal of adhered dust on container with air blower

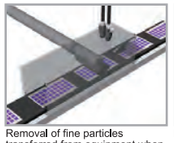

Blow and collection of dust from medicine surface

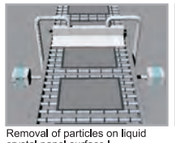

Suction of floating print powder particles


Removal of dust when molding mold with air blower

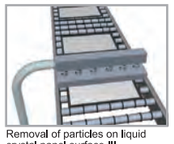

Collecting floating dust when air blowing adhered particles


Collecting dust from parts feeder with static elimination

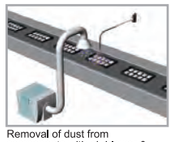

Removal of fine particles transferred from equipment when laminating IR filter glass

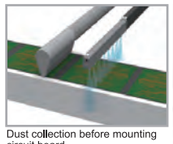

Removal of particles on liquid crystal panel surface I


Removal of particles on liquid crystal panel surface II


Removal of particles on liquid crystal panel surface III

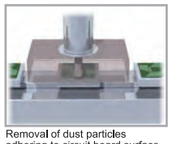

Removal of fine particles from electric components (such as chips or sensors) with air blower & static elimination


Removal of dust from components with air blower & static elimination


Dust collection before mounting circuit board

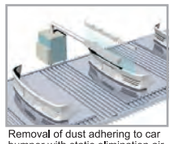

Removal of dust from circuit board with air blower


Removal of dust on surface of circuit board with air blower & static elimination

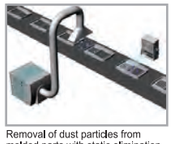

Removal of dust particles adhering to circuit board surface


Removal of dust adhering to meter panel with air blower & static elimination


Removal of dust from car components with air blower

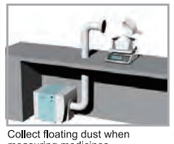

Removal of dust adhering to car bumper with static elimination air blower

Remove adhered dust without air blower

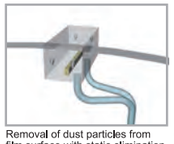

Removal of dust particles from molded parts with static elimination


Collect floating dust when conveying PET bottles


Removal of dust when perforating PET bottle labels


Collect floating dust when measuring medicines


Collect scattered dust particles when measuring medicines

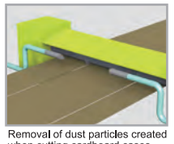

Removal of dust particles from film surface with static elimination

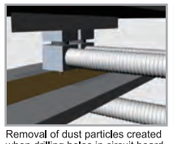

Collecting dust from around the film

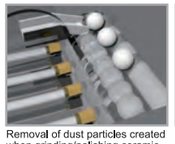

Removal of dust from film surface


Removal of dust from film cross-section


Collecting floating dust when attaching labels


Removal of dust particles created when cutting cardboard cases


Removal of dust particles created when drilling holes in circuit board


Removal of dust particles created when grinding/polishing ceramic balls


Collecting metal powder from lithium-ion electrode surface


Removal of dust particles from surface of printed circuit board after drilling holes and mounting with air blower and static elimination


Removal of dust from press-fit parts when fitting together

Removal of dirt from laser printer toner cartridge roller

Dust collection in printed circuit board dividing machine

Dust collection in printed circuit board dividing machine

Removal of dust particles created by cutting lithium-ion battery electrodes

Suction of dust powder created by compression molding

Removal of adhered dust powder created in compression molding process

Suction of large amount of dust created through dividing boards

Dust collection with a brush cleaner

Dust collection with a thin tube

Used as a hand carry dust collector

Extracting fumes created by laser marking/processing

Fume extraction when laser cutting polarizing plate

Fume extraction when cutting lithium-ion battery electrodes

Removal of dust when marking microcomputer

Peeling/flaking ink when marking cardboard

Extraction of fumes caused by marking liquid crystal substrate surface

Extraction of fumes caused by marking lighting board

Removing fumes caused by laser marker

Dust & fumes collection during vehicle headlight production

Fume extraction when manually marking duracon

Fume extraction when laser processing bearings

Collection of fumes caused by laser marking duracon (material) on the production line

Fume extraction when marking a starter motor

Fume extraction when marking resin connector

Fume extraction when marking resin BOX

Fume extraction when marking production date on cup noodle pack

Fume extraction when marking condenser

Fume extraction when marking production date on packaging

Fume extraction when marking drum brake

Fume extraction when engraving flexographic printing plate

Fume extraction when marking medicine labels

Fume extraction when laser engraving wood

Fume extraction when laser separating printed barcode packaging

Fume extraction during automatic solder processing

Fume extraction when laser marking acrylic plates

Fume extraction when marking QR codes on automobile components (metal)

Fume extraction when cutting acrylic

Fume extraction when laser printing QR codes on resin

Collection of dust & fumes from silicon isolator

Fume extraction when laser marking metal balls for casino

Fume extraction when marking liquid crystal substrate surface

Fume extraction when marking metal workpiece

Fume extraction when marking bearings

Fume extraction when marking bearings

Laser peeling printed seals

Extraction of fumes during the laser cutting process of interior cutting sheet

Fume extraction when laser cutting interior cutting sheet

Fume extraction when laser cutting seatbelts

Fume extraction during automobile components and material solder processing

Fume extraction when laser marking medical product label

Fume extraction when marking blue anodized aluminum

Catching floating dust particles (before they settle)

Collection of metal dust particles during assembly of navigation components

Burr removing from tiny resin workpiece

Suction of floating particles when cutting/peeling optical fiber

Removal of floating dust during teflon polishing

Removal of floating dust during hard contact grinding

Collecting floating dust from grinder

Removal of floating dust when attaching labels

Removal of dust particles from draining after washing

Collection of floating dust before pasting on LCD panels

Recycle of powder from machining of precious metals

Suction of powder from dental use plaster mold processing

Removal of particles from grinder surface during grinding

Removal of particles from polishing process

Removal of floating dust when polishing ceramic

Increase of chamber pressure by directing clean air into desiccator (casing) to block off external dirt

Blow off the dirt on mobile phone surface prior to packing with static elimination

Removal of metal powder to prevent build-up on substrate during car radio assembly

Collecting particles when cutting or drilling with board dividing machine

Collecting particles when cutting or drilling board dividing machine

Removal of dust particles caused by desktop machining equipment processing

Handling floating dust during rechargeable battery winding process