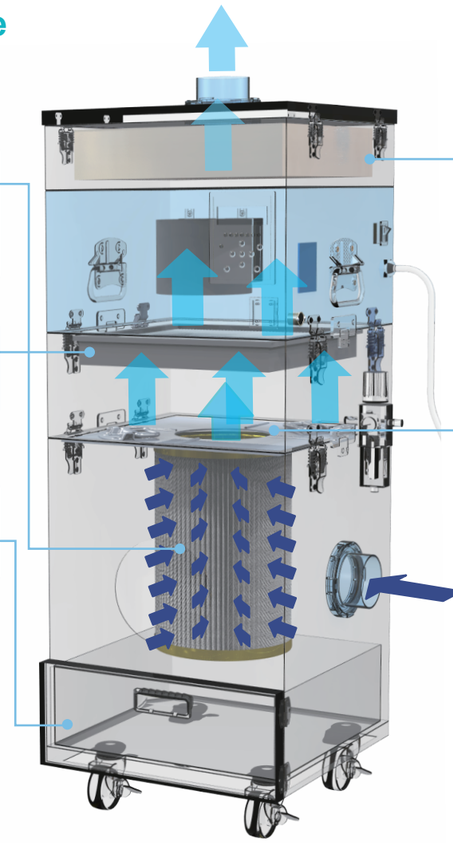
# SHP series — High pressure Separate Dust Collector

Ultra-high pressure · AT3 · RoHS · Clean rooms

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

## Product structure and feautures



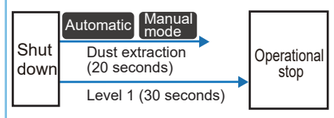
### Primary filter
A conductive filter is installed as standard to prevent the generation of static electricity.
The collection efficiency is 0.5 μ 99.9% or larger.

### Secondary filter
The device is equipped with a high-performance filter to protect electric parts from dust.

### Dust pan
Dust collected in the dust box can be easily removed and disposed of.

### Exhaust filter
The device is equipped with a HEPA filter and can be used in a clean room.(Clean class 1,000)

### Dust removal function [Gyro Air Type]
Inbuilt mechanism enables dust removal for approx. 20 seconds.
In automatic dust extraction mode, the device will operate at Level 1 for approx. 30 seconds to prevent reverse flow.
Automatic dust extraction mode is used when:
1) The device is OFF after cumulative operation time exceeds 1 hour
2) The device is switched to Level 1 by remote operation




## Filter type

| Model | Primary filter | Secondary filter | Exhaust filter | | |
|---|---|---|---|---|---|
| | | | Filter type | Motor cooling intake side | Motor cooling outflow side |
| SHP-1000AT3 | CS-200-300-75P-E | CHF-2525-50 | HEP-3030-69 | AE-100 113 x 47 | HEP-1293-33 |
| SHP-1200AT3 | CS-250-300-93P-E | CHF-2525-50 | HEP-3535-69 | AE-100 113 x 47 | HEP-1293-33 |
| SHP-1600AT3 | CS-300-300-112P-E | CHF-3030-50 | HEP-3535-69 | AE-100 113 x 47 | HEP-1414-33 |

## Easily detachable flange type (sold separately)

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

SHP-1600AT3 is an iron flange. Please contact us if you wish to change the diameter of the flange.

## List of specifications

| Model | Output | Voltage | Frequency | Rated current | Maximum air flow | Maximum static pressure | Noise *2 level | Suction port (hose) size | Compressed air consumption volume | Compressed air pressure |
|---|---|---|---|---|---|---|---|---|---|---|
| SHP-1000AT3 | 1200W | 200V single phase | 50/60 | 11.0A | 4.5 m³ /min | 12.5kPa | 55-70dB | φ75 | 70L/operation | 0.4-0.5Mpa |
| SHP-1200AT3 | 1200W | 200V single phase | 50/60 | 11.0A | 6.0 m³ /min | 13.5kPa | 55-70dB | φ75 | 70L/operation | 0.4-0.5Mpa |
| SHP-1600AT3 | 1800W | 200V single phase | 50/60 | 11.0A | 6.8 m³ /min | 16.0kPa *1 | 55-70dB | φ100 | 70L/operation | 0.3-0.4Mpa |

| Model | To be used with 200-240V | CE compliant | Panel | Power cable | Dust removal function | Remote control feature | Suitable for use in clean rooms | Dust collection volume capability | 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 | ○ | ○ | 8.8L | 56.0kg | 495×420×1030mm |
| SHP-1600AT3 | Standard | — | AT3 | 5m | Gyro Air Type | ○ | ○ | 15.6L | 64.0kg | 520×455×1055mm |

*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 removed)
*3 The dust collectable capacity is about 70% of the withdrawal capacity as a guide.

Note:Contents may change without notice.

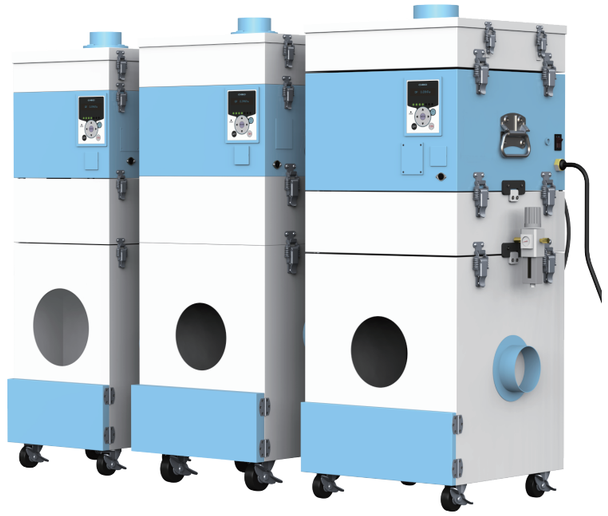


## Features

### Equipped with high pressure brushless motor
This device has a high-pressure brushless motor mounted, ensuring high power dust collection with performance quality maintained at a high level even when used with a thin nozzle or suction port. (Recommended for substrate divider lines and battery production lines with high dust volumes)

### Large inspection window
You can check the dust removal 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. Dirt and trash can disposed of easily, even when present in large quantities.



SHP-1000AT3 SHP-1200AT3 SHP-1600AT3

## Control panel

**AT3 Panel**

See pages 8-9 for more details.


## Remote control feature included (for remote operation)

■**Remote cable (sold separately/model: Using MT-173-8 (3 m)) enables remote operation of peripheral equipment.**

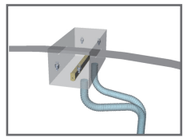
Motor cable receiving port on main body

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

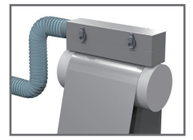
- **Operation ON/OFF**
- **Change capacity level (air volume)**

## List of applications

Removal of dust when perforating PET bottle labels

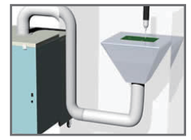


Static elimination; removal of dust particles from film surface



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

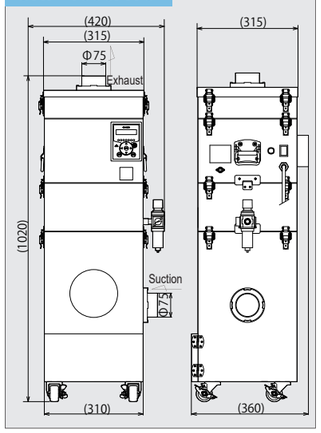
Removal of dust particles when cutting or drilling board dividing machine



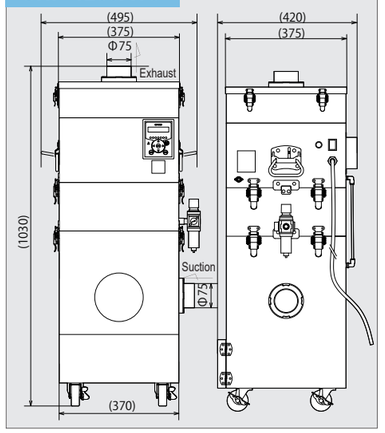
Removal by adhesion of dust particles created by drilling board dividing machine

## Dimensions

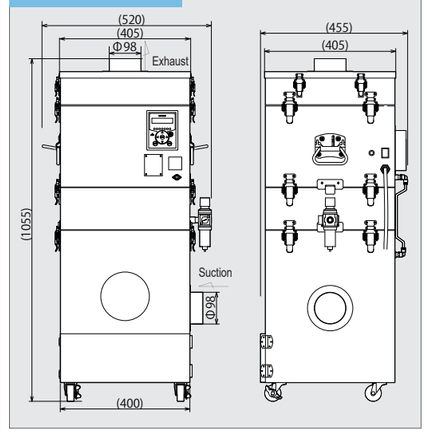
**SHP-1000AT3**




**SHP-1200AT3**




**SHP-1600AT3**

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