

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)

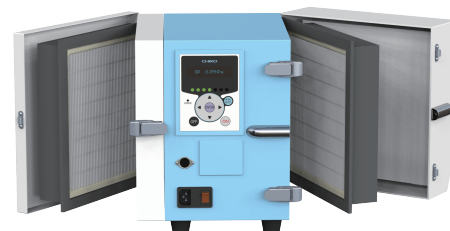
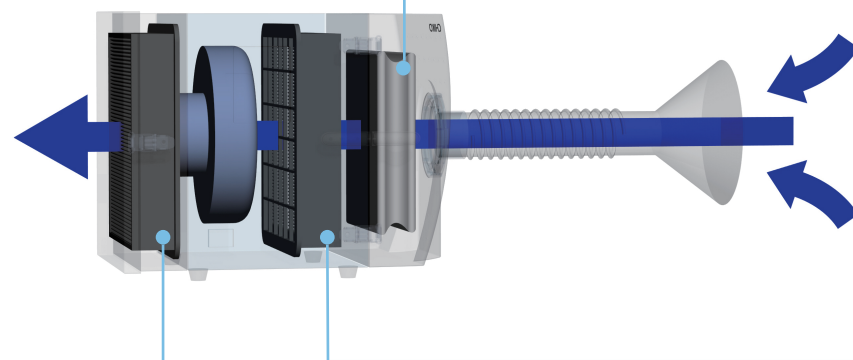
## Product structure and features

### Primary filter

Filter bag is made of five layers of nonwoven polypropylene fabric.  
The five layers have different air permeation rates to minimize clogging and provide a filtration rate of 95% or higher for particulates of 45μ and larger.  
The five layer filter also offers high overall strength; thus, it does not tear easily unlike a paper pack.

### Secondary filter

Nonwoven polypropylene fabric is formed into a pleated filter.  
The outside frame is molded in ABS resin (CKU-240AT3-HC is polypropylene).  
Highly effective with a filtration rate of 99% or higher for particulates of 0.3 μ.



CKU series (with filter cases open)

### Exhaust filter

This uses the same filter as the secondary filter, and collects particles that were not extracted by the primary and secondary filters. Also, it is installed for the purpose of collecting dust particles generated in the fan motor chamber.  
The filter has a filtration rate of 99% or higher for particulates of 0.3 μ, thus enabling the use of the dust collector for applications requiring cleanliness class of 100,000 to 10,000.  
If a HEPA filter (filtration rate of 99.97% or higher for 0.3 μ particulates) is fitted, the dust collector complies with cleanliness class 1,000 to 100. Note: Based on factory inspection data.  
For the CKU/CBA series, if the model number has V1 at the end, a HEPA filter is installed as standard equipment.  
Standard specification models can be easily converted to V1 specification after purchase. (CKU-240AT3-HC requires replacement of the exhaust cover). Please refer to page 37 "HEPA filters" for HEPA filter types for each model.

## Filter type

Model	Primary filter	Secondary filter	Exhaust filter	φ 38	φ 50	φ 65	φ 75
CKU-080AT3-HC	FB-25	CHF-2525-50	CHF-2525-50	FRJ-D-38-35-92	FRJ-D-50-35-92	Standard	—
CKU-240AT3-HC	FB-30	CHF-3030-50	CHF-3030-50	FRJ-D-38-35-108	FRJ-D-50-35-108	FRJ-D-65-35-108	Standard
CKU-450AT3-HC	FB-700-22	CHF-3535-70	CHF-3535-70	—	—	—	—

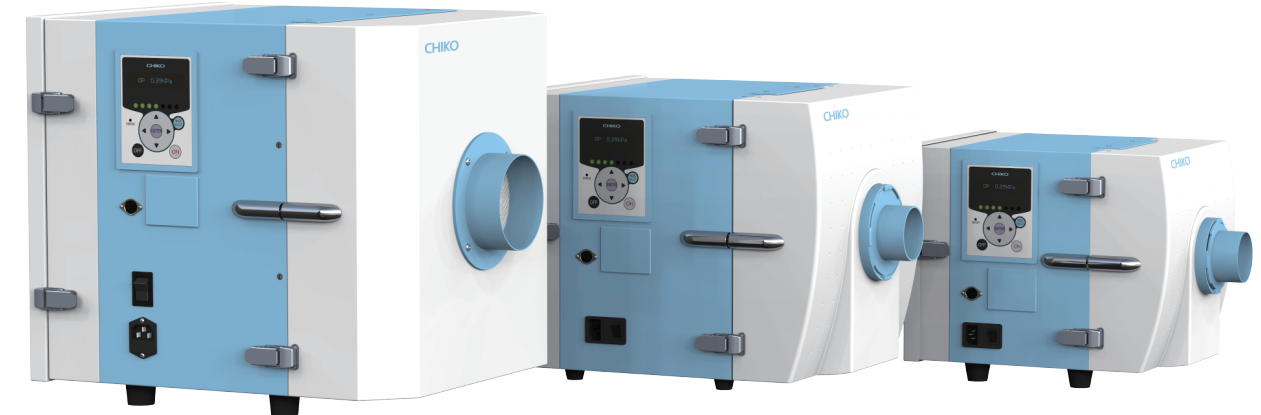
## Easily detachable flange type (sold separately)

## List of specifications

Model	Output	Voltage	Frequency	Rated current	Maximum air flow	Maximum static pressure	Noise level <sup>1</sup>	Suction port (hose) size	Suction port sold separately (size can be changed)
CKU-080AT3-HC	50W	100V single phase	50/60	2.4A	2.9 m³/min	2.5kPa	54-58dB	φ 65	φ 50 • φ 38
CKU-240AT3-HC	250W	100V single phase	50/60	5.3A	4.6 m³/min	2.4kPa	52-60dB	φ 75	φ 65 • φ 50 • φ 38
CKU-450AT3-HC	500W	100V single phase	50/60	9.8A	7.0 m³/min	2.9kPa	57-65dB	φ 100	—
Model	To be used with 200-240V	CE compliant	Panel	Power cable	Remote control feature	Suitable for use in clean rooms	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

<sup>1</sup> 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.

Note: Contents may change without notice.



CKU-450AT3-HC

CKU-240AT3-HC

CKU-080AT3-HC

## Features

24 hours continuous operation possible

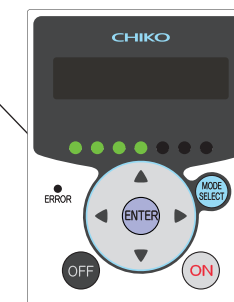
### Compact, high-performance

We have redeveloped the inner part of the fan motor and its control to realize the company's vision of "compact high performance".  
Compared to competing products, our product has a 50% lower volume ratio, and is a successful example of the miniaturization of high demand devices in recent years.  
Operating efficiency is the same at 50Hz/60Hz.

## 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.

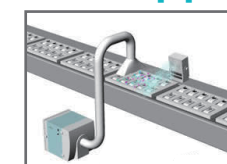


Motor cable receiving port on main body

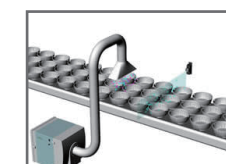
- |   |   |
|---|---|
| 1.Operation input signal                          | 5.Operating signal                                |
| 2.Operation pressure signal (DC1-5V)              | 6.Abnormality signal                              |
| 3.Filter clogging signal                          | 7.Change of operating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

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

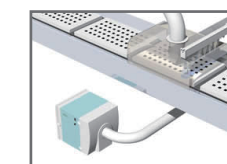
## List of applications



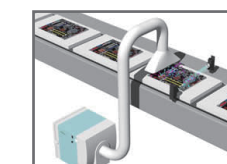
Static elimination; removal of dirt on mobile phone surface prior to packing



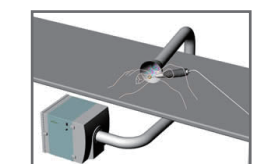
Removal of dust on container with air blower



Static elimination; removal of dust from electronic components (such as chip sensors) with air blower

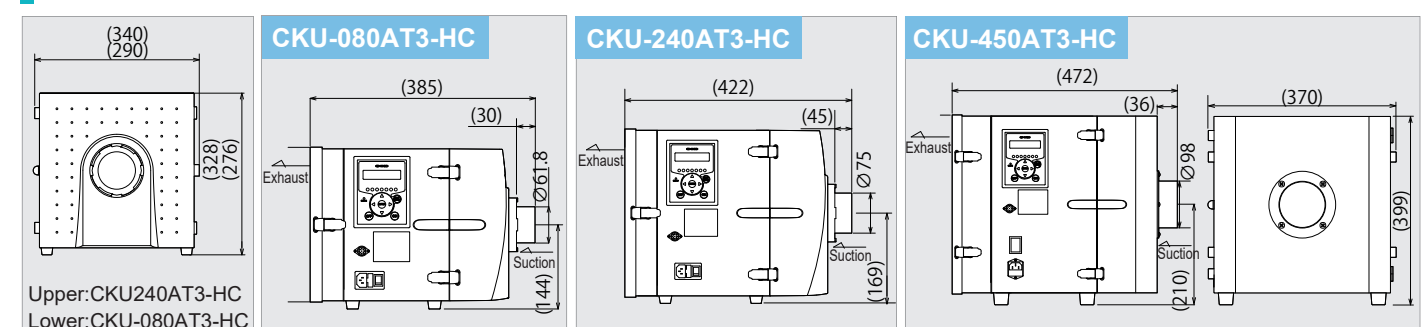


Static elimination on surface of circuit board; removal of dust with air blower



Removal of powder from precision machining of precious metals

## Dimensions



Note: Contents may change without notice.