

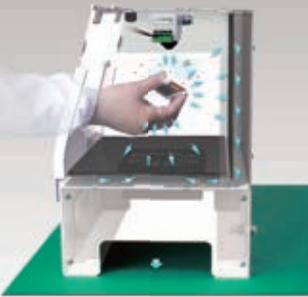
No. IPC-A4

# Ion Parts Cleaner



With the Ion parts cleaner applying a unique dust capturing method with an adhesive gel sheet, an installation space for a dust collector or a dust is no longer needed. This gel sheet can be repeatedly used after cleaning off dust.

We provide A4 and A3 sizes on the assumption of cell production work. This allows efficient dust removal work to be done according to line design.



Static electricity elimination and dust removal in a hood. Dust adhered by static electricity is neutralized in the ionized hood and then removed by powerful automatic air blow.



No. IPC-A4

## Ion Parts Cleaner

Ion parts cleaners playing an important role in line design of cell production. Assembled parts and devices can be cleaned on the spot and flowed to the next process, enabling line design to be smart.



HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

**No. IPC-A4 Ion Parts Cleaner**

Ionizing method : Piezoelectric high-frequency AC corona discharge Applied voltage: 5.6kVAC(p-p)

- Compact bench-top type of 314 mm wide and 253 mm deep
- Eliminates static electricity and removes dust with air controlled by an infrared sensor.
- Time to stop ion blow after sensing a workpiece by a sensor is settable. (1, 3, 5, 10, or 30 sec)
- Adhesive gel collects blown-off dust assuredly.
- Dust on the adhesive gel mat can be washed off with water and the gel mat can be used repeatedly.
- Dust collector is not required; This reduces power consumption significantly and, in the end, the total running cost. Moreover, pulse blow also cuts the amount of air usage.
- In the pulse mode, air is blown intermittently, exerting force of blowing off dust by vibration. It allows low- and high-speed pulses to be selected according to workpiece.
- Incorporates an air regulator.



Model No.	Power supply	Power consumption (W)	Current consumption (mA)	Dust collection airflow (ml/min)	Airflow (l/min)	Weight (kg)	EDP No.
IPC-A4	24VDC±5%	17	700	3.5	147	6	621610

(Noise: 0.3MPa Airflow: 0.3MPa)  
 Operating fluid: Clean dry air (0.1 to 0.5MPa), Air supply hose diameter Φ8mm  
 Accessories: AC Adapter AD24-IT19(100~240VAC)(AD24-IT19E is available on request.), AC power cable 1.8m, Adhesive gel sheet/plate(attached on the product) (2pcs.)

**No. IPC-A3 Ion Parts Cleaner**

Ionizing method : Piezoelectric high-frequency AC corona discharge Applied voltage: 5.6kVAC(p-p)

- Equipped with two ionizing nozzles N-1, blowing air downward from the top side of the hood
- Eliminates static electricity and removes dust with air controlled by an infrared sensor.
- Time to stop ion blow after sensing a workpiece by a sensor is settable. (1, 3, 5, 10, or 30 sec)
- Adhesive gel collects blown-off dust assuredly.
- Dust on the adhesive gel mat can be washed off with water and the gel mat can be used repeatedly.
- Dust collector is not required; This reduces power consumption significantly and, in the end, the total running cost. Moreover, pulse blow also cuts the amount of air usage.
- In the pulse mode, air is blown intermittently, exerting force of blowing off dust by vibration. It allows low- and high-speed pulses to be selected according to workpiece.
- Incorporates an air regulator.



Model No.	Power supply	Power consumption (W)	Current consumption (mA)	Dust collection airflow (ml/min)	Airflow (l/min)	Weight (kg)	EDP No.
IPC-A3	24VDC±5%	22	900	1.13	270	9.5	621612

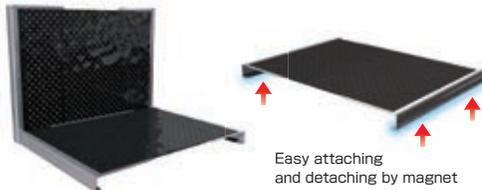
(Noise: 0.3MPa Airflow: 0.3MPa)  
 Operating fluid: Clean dry air (0.1 to 0.7MPa), Air supply hose diameter Φ10mm  
 Accessories: AC Adapter AD24-IT19(100~240VAC)(AD24-IT19E is available on request.), AC power cable 1.8m, Adhesive gel sheet/plate(attached on the product) (2pcs.), Duct flange(For Φ75mm),Paper pack filter (6pcs.)

One point

Features of IPC-A4 and -A3

Dust capturing gel sheet for IPC-A4 and -A3

Dust capturing using self-adhesive urethane gel  
 Adhesiveness is restored by cleaning such as washing in water.



Paper-pack filter for IPC-A3

A paper-pack filter can be attached to the exhaust port in the back of the cleaner (Standard specifications). Replacement of a flange enables the cleaner to be connected to an exhaust duct of φ75 mm.



Air regulator equipped

The ion parts cleaners incorporate an air regulator, allowing you to adjust the flow rate of ion air.

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### No. IPC-250CR Ion Parts Cleaner **NEW**

Ionizing method : DC Corona discharge Applied voltage : +6kV, -3~-7kV

- Cleaned air blow with HEPA filter.
- DC ionizer incorporated, creating an ionized space.
- Adjustable air blow volume.
- No exhausted air by the air circulation system



Model No.	Power supply	Power consumption (W)	Current consumption (A)	Air flow (m <sup>3</sup> /min)	Max wind speed (m/s)	Noise level (dBA)	Weight (kg)	EDP No.
IPC-250CR	DC24V±5%	108	4.5	1.5	25	74	22	623201

(Air flow, Wind speed: No internal filter clogging, output value of the blower)  
(Noise: Max air flow, No internal filter clogging, output value of the blower)  
Accessory: Caution label sticker / Instruction manual

#### Replacement parts

Pre-filter	IPC-250CRPF	Power adapter	AD24-150-PD4
HEPA filter	IPC-250CRHF	EDP	806146
Needle electrode	SDJ-05RH	I/P	100V to 240 V AC, 50/60 Hz
		O/P	24V DC 5A

#### Option

## One point

New concept of Ion Cleaning!



### Air cleanliness (HEPA filters) <99.9% or more>

Particle	0.3μm	0.5μm	5μm	Total
Primary side	16,165,100	4,884,000	0	21,049,100
Secondary side	420	0	0	420

● Measured on April 13, 2018

Airflow: Max

Tested particle: PAO (Polyalphaolefin mist)

Particulate measured with KC-01DI (primary side, after air passing through the blower) and KC-03B (secondary side, after passing through the HEPA filter)

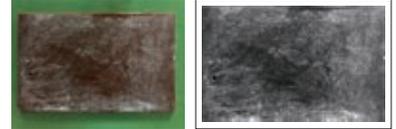
### Dust removal test

Sample: Bakelite plate (150×90 mm, 3 mm thick)

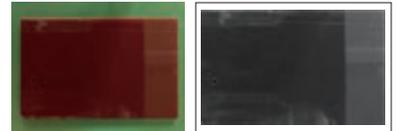
Pseudo-contaminant: cotton linter

Static elimination time: 3 seconds (inclined at 45° with respect to the air outlet)

Before dust removal  
charging voltage:  
+1.25kV



After dust removal  
charging voltage:  
0kV

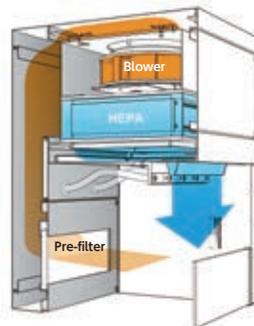


The white reflective cotton linters have been effectively removed.

● Measured on April 11, 2018 with Electrostatic Field Meter Eye-02, at Max Wind Speed at 26°C (temperature) and 45%RH (humidity)

### Air circulation type, with no exhausted air.

- The air is vacuumed up from the pre-filter at the back of the booth passing through the inside blower and is filtered by the HEPA filter, then is blown back from the top of the booth.



The generated ions are downflowed with the wide air blow.