

## New Product

Intelligent Control | Network | LED Display

Ionizing Air Blower

AP-DJ28 Series

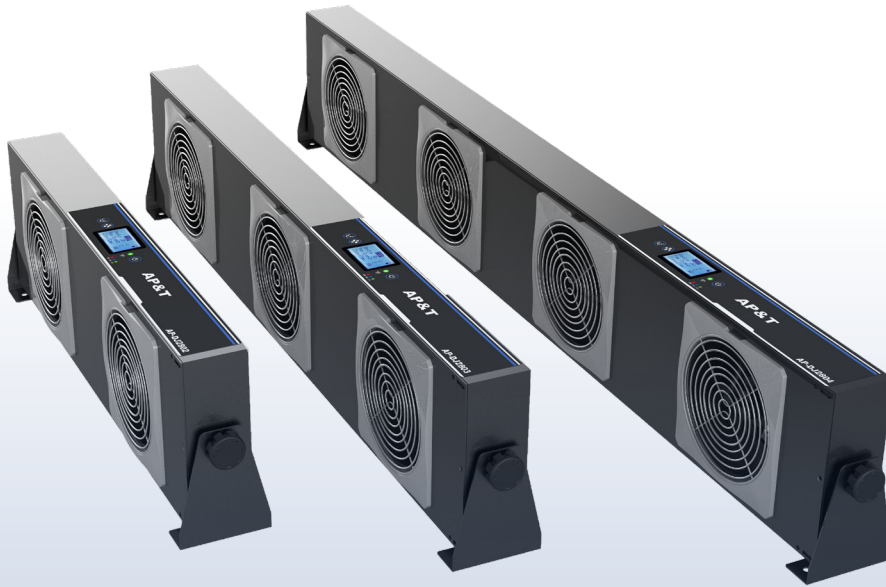


# Multi models available

Suitable for different production environments



■ AP-DJ2801



■ AP-DJ2802

■ AP-DJ2803

■ AP-DJ2804

Durable

Metal shell

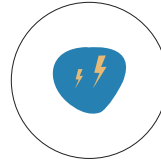
Low noise

One button start

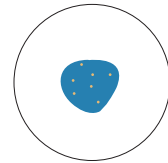
CE certified

# Application

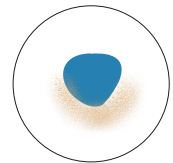
Widely used in electronics, optoelectronics,  
semiconductor and other industries



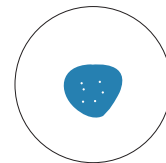
Static removal



Prevent adhesion of objects



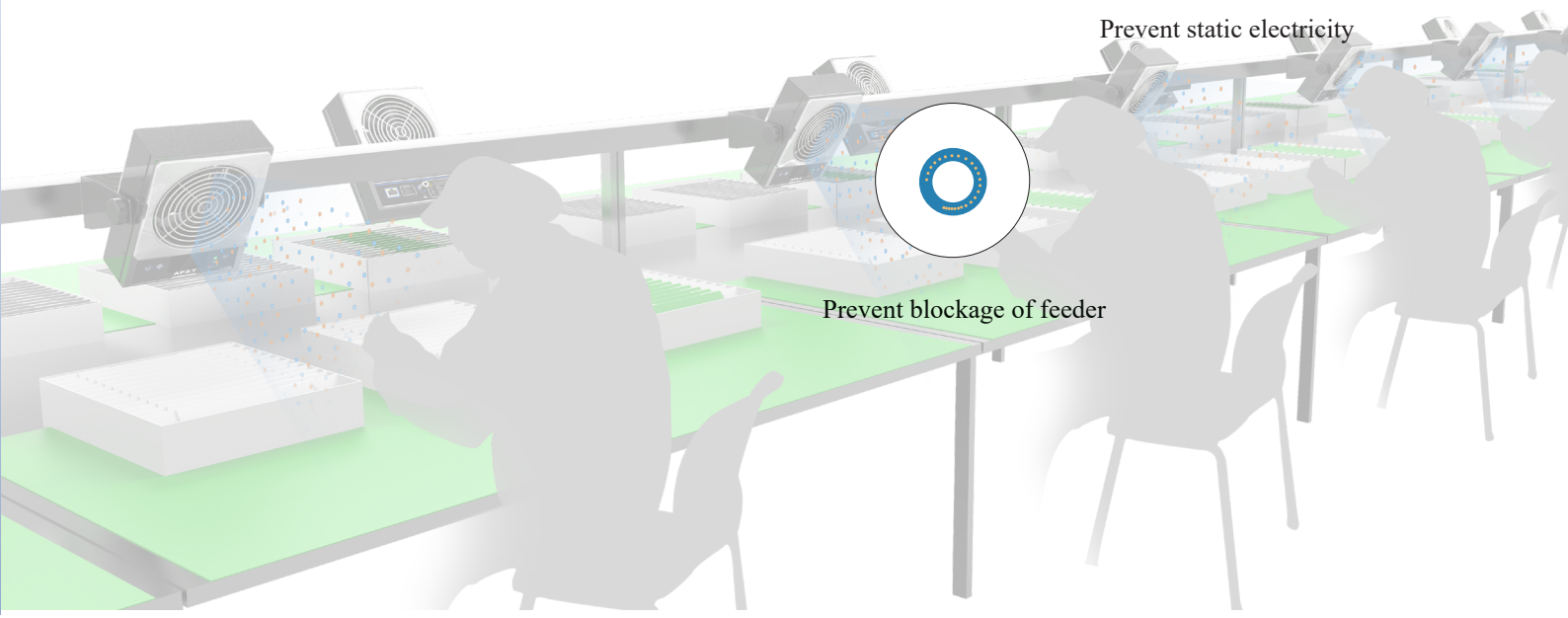
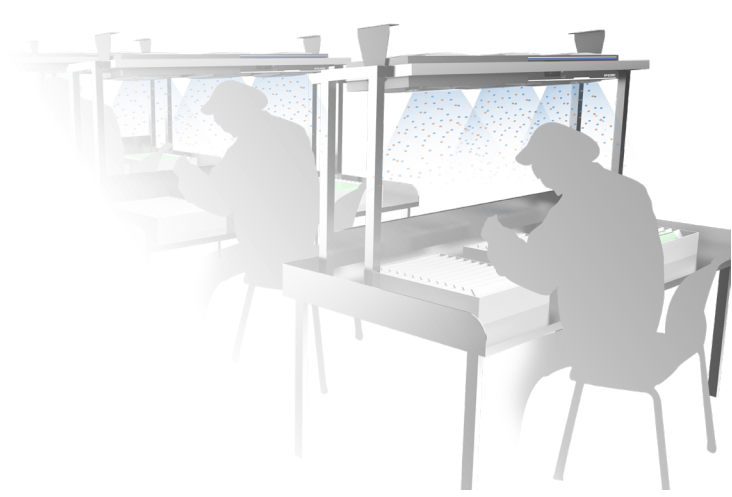
Prevent material splash



Prevent static electricity

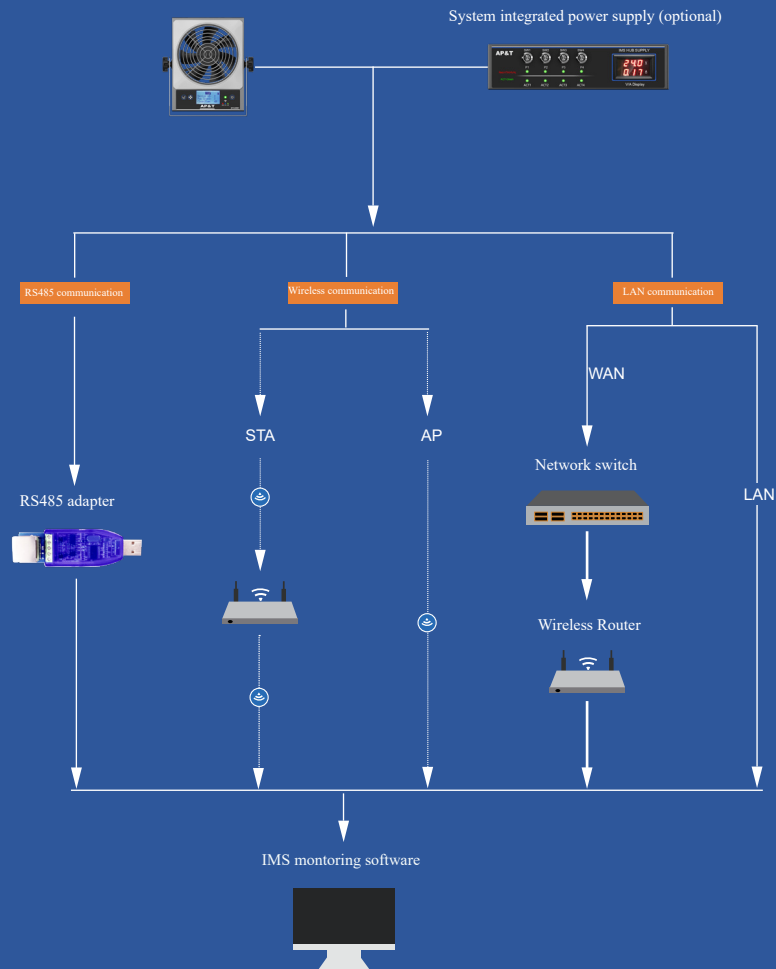
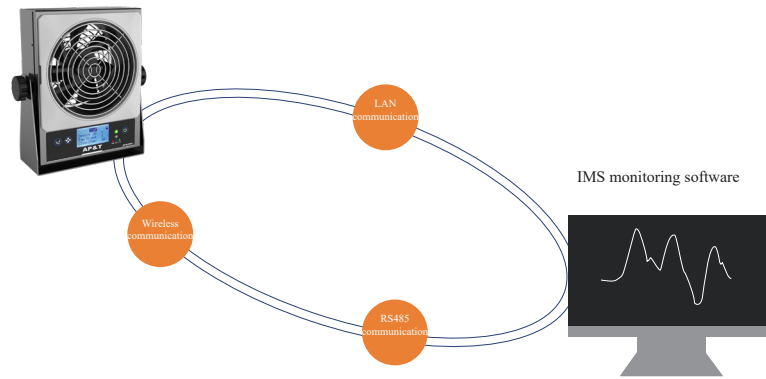


Prevent blockage of feeder



# Intelligent networking

Multiple networking methods to monitor the working status of ionizing air blower online



# Intelligent remote control

Cleaning time /Air volume output adjustable



## Cleaning time setting

Set a reminder for the cleaning time at will. When the blue light flashes, it means ionizing air blower needs cleaning. When using ionizing air blower, the electrode needle cleaning cycle is set according to the working environment. Cleaning cycle should be shorten appropriately in environment with more moisture and dust.

## Air volume output adjustable

There are five air volume options on the ionizing air blower. Adjust the air volume according to the installation distance of the static eliminator and the status of the target object.

### Unlock

- 30s delay for operation if any key is pressed after unlocking.
- Exit and lock if no key is pressed after unlocking.

### Remote control button

- FR/S: run and pause.
- FS+/FS-: Air volume adjustment: Order from high to low is 1,2,3,4,5.
- T+/T-: cleaning time adjustment, the unit is H.
- CAL+"RES": Restore factory settings.

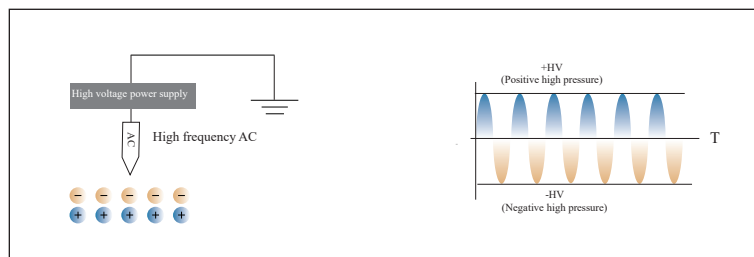
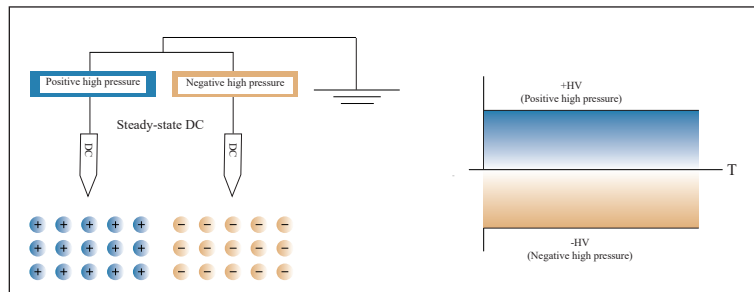
# DC

Better static discharge compare to high frequency AC ionizing air blower

## DC VS High frequency AC

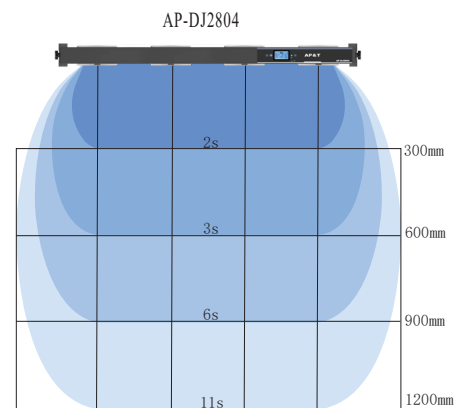
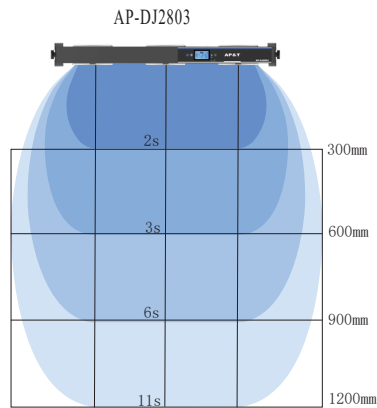
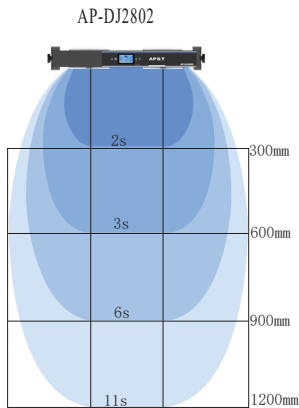
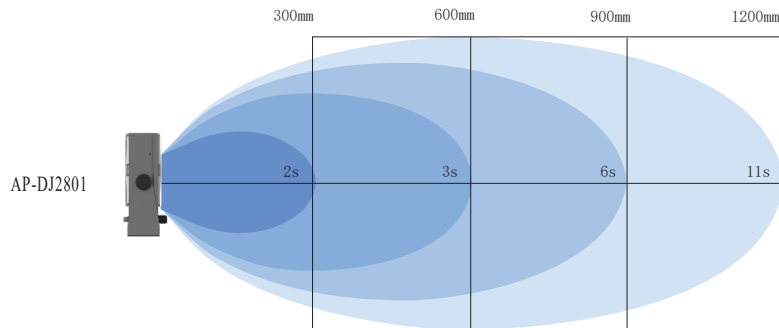
DC is a method to generate two polar ions by applying "+" and "-" high voltage to two electrode needles. The utilization rate of ion generation is high, the external electromagnetic interference is small and the pollution degree of the particulate matter in the purification environment is small.

Now many ionizing air blowers in the market use high-frequency AC. Due to the low discharge voltage and weak electric field, the dust resistance is poor, which is easy to cause corona occlusion and unable to eliminate electricity.



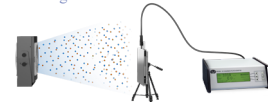
# High efficiency static removal

Have a clean production environment and stay away from static electricity



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
Test instrument: Trek157 static tester  
Test voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation  
Test environment: humidity 50 $\pm$ 5%; temperature 23 $\pm$ 3 $^{\circ}C$

Product testing chart

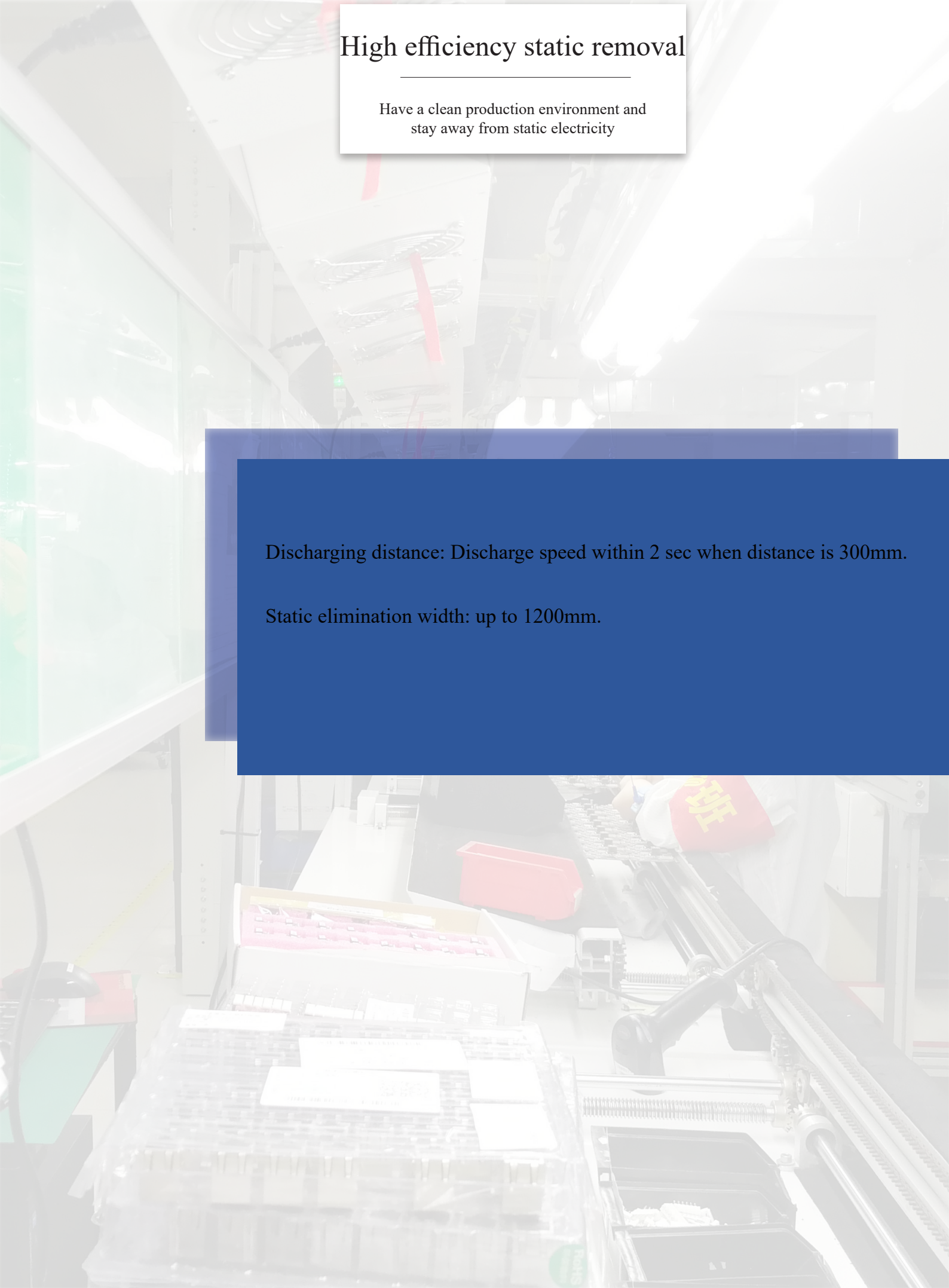


# High efficiency static removal

Have a clean production environment and  
stay away from static electricity

Discharging distance: Discharge speed within 2 sec when distance is 300mm.

Static elimination width: up to 1200mm.



# Features

Safe / Easy to use / Durable



No.1

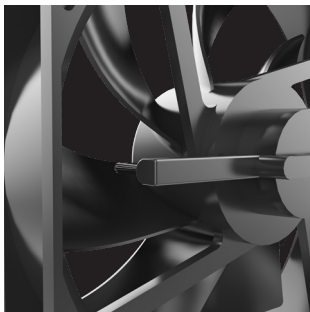
## Modular structure

Simplify maintenance job. The net cover can be easily removed to facilitate disassembly and assembly.

No.2

## 4 Electrode needles

4 tungsten needle electrode needles, longer service life;  
High speed 7-blade fan with larger ion air volume.



No.3

## Built-in cleaning brush

The ionizing air blower automatically brush the needle after it is turned on.

During operation, the ionizing air blower automatically brushes the needle every 8 hours without manual brush cleaning and maintenance.

No.4

## Visualization of ionizing air blower working status

Red light alarm: Ionizing air blower break down or abnormal high voltage.  
Blue light flashing: Debugging required.  
Bright green: Ionizing air blower is working normally.





# Features

Safe / Easy to use / Durable



No.5

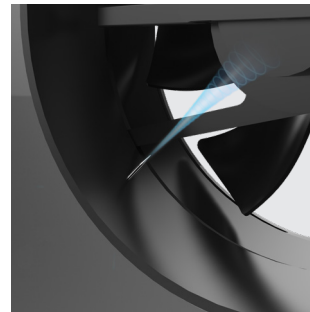
## With LED display

Can display equipment address / wind speed gear / cleaning cycle.

No.6

## Standard tungsten alloy needle

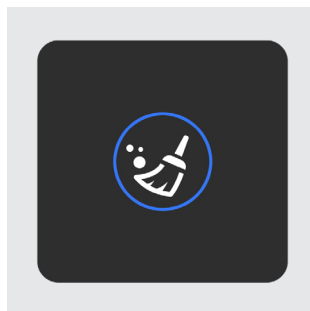
Tungsten alloy has a longer service life compared with titanium and silicon materials.



No.7

## Clean button

Ionizing air blower should be cleaned in time according to the working environment and the required electrostatic protection requirements to ensure the good performance of the product.



No.8

## Five speed adjustment

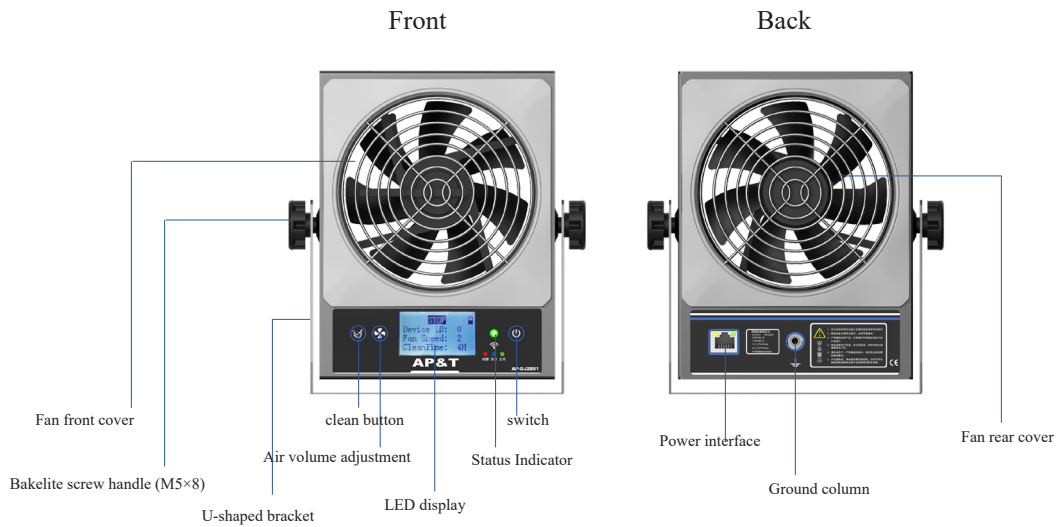
Simply press the air volume adjustment button to adjust the air volume at will.



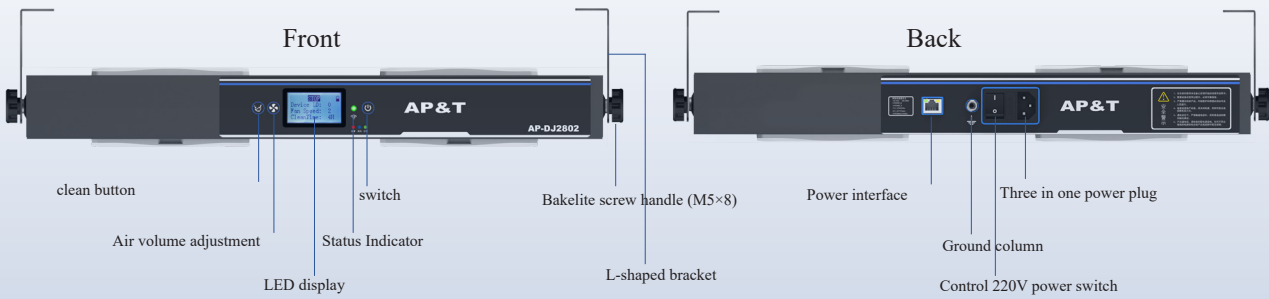
# Features

Richer functions, more intelligent

## DJ2801



## DJ2802/2803/2804



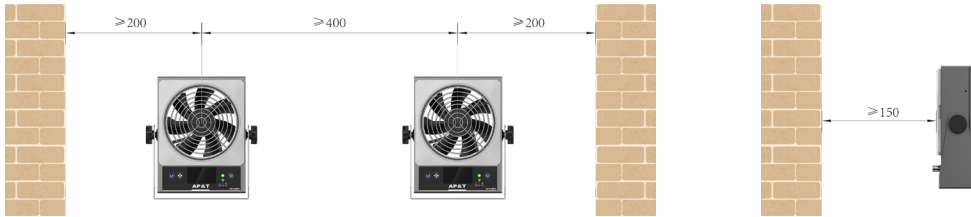
Power interface cable function information

|     |                    |  |
|-----|--------------------|--|
| 1、2 | Orange、white-range | VCC: +24VDC  |
| 3   | Blue               | RS485+B  |
| 4   | White-blue         | RS485+A  |
| 5   | Green              | GND  |
| 6   | White-green        | GND  |
| 7   | Brown              | VTH: Sensor threshold alarm<br>HVAL: High voltage alarm for static eliminator                            |
| 8   | White-brown        | ACT: Sensor/static eliminator power-on indication<br>Clean: cleaning instructions for static eliminators |
| 9   | Metal shield       | PE   |

# Installation

Desktop / Hanging

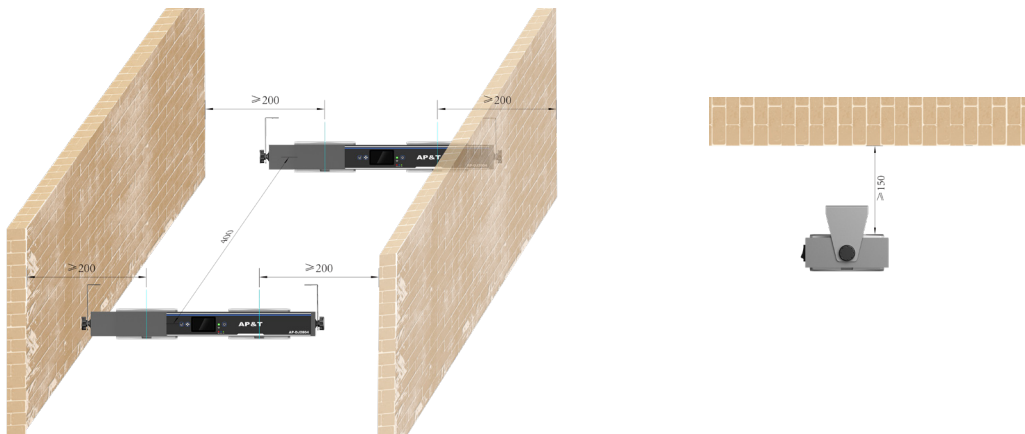
## DJ2801



### Installation steps

1. Install ionizing air blower and the matching power adapter firmly in the best discharge position.
2. Insert the circular plug of the power cord of the adapter into the power socket of the ion fan and the three-core power socket into the row socket.
3. Ionizing air blower will automatically brush the needle after starting and the fan works normally when the indicator light is green.

## DJ2802/2803/2804



### Installation tips

1. Place the ionizing air blower in the working area where static electricity is to be eliminated and the installation angle should be perpendicular to the surface of the charged body.
2. Ionizing air blower should be at least 300mm away from the metal conductor and metal grounding body.  
Ionizing air blower must be reliably connected to the ground wire.
3. Two ionizing air blowers should be installed side by side with an interval of more than 400mm and more than 200mm away from obstacles such as walls.
4. The air inlet is at least 150mm away from the wall and the bracket installation angle can be manually adjusted.

»»»»» Specification «««««

|  |  |  |                 |                  |
|--|--|--|-----------------|------------------|
| Model  | AP-DJ2801  | AP-DJ2802  | AP-DJ2803       | AP-DJ2804        |
| Input voltage                                    | DC 24V (RJ45 interface)  | DC 24V (RJ45 interface) / Three in one socket (220VAC 50/60Hz)                                       |                 |                  |
| Input Current                                    | < 0.45A DC   | < 0.15A AC   | < 0.2A AC       | < 0.25A AC       |
| Output voltage                                   | DC±4.5KV→±5.5KV  |  |                 |                  |
| Power  | < 12W  | < 33W  | < 44W           | < 55W            |
| Ion emission                                     | DC   |  |                 |                  |
| Emitter electrode                                | Tungsten alloy   |  |                 |                  |
| Discharge range                                  | 750*300mm (L*W)  | 750*550mm (L*W)  | 750*800mm (L*W) | 750*1050mm (L*W) |
| Air volume                                       | ≤93CFM*1   | ≤93CFM*2   | ≤93CFM*3        | ≤93CFM*4         |
| Noise  | Single air outlet≤45dBA (1000mm away from the air outlet)  |  |                 |                  |
| Ozone thickness                                  | ≤0.05ppm (150mm away from the air outlet)  |  |                 |                  |
| Ion balance                                      | ≤ ±10V   | ≤ ±15V   |                 |                  |
| Discharge speed                                  | ≤2.0S<br>(300mm away from the air outlet)  | ≤2.5S (450mm directly below the air outlet)  |                 |                  |
| Alarm indication                                 | Power on/clean operation—blue light flashes;   |  |                 |                  |
|  | Normal work—green light (always in monitoring state);  |  |                 |                  |
|  | Fan alarm—red light is always on;  |  |                 |                  |
|  | High voltage abnormality—red light flashes;  |  |                 |                  |
|  | Blue light flashes during infrared debugging   |  |                 |                  |
| Communication method                             | RS485  |  |                 |                  |
| Working temperature                              | 0°C-50°C   |  |                 |                  |
| Working humidity                                 | < 70%RH  |  |                 |                  |
| Dimensions                                       | 178*67.6*194.5mm   | 553*154*114mm  | 803*154*114mm   | 1053*154*114mm   |
| Blower material                                  | Aluminum powder spraying   |  |                 |                  |
| Packaging accessories                            | 1 pair of U-shape iron powder spraying mounting brackets,<br>1 pair of bakelite screw handles (M5×8) | 1 pair of L-shape iron powder spraying mounting brackets,<br>1 pair of bakelite screw handles (M5×8) |                 |                  |
| Adapter power                                    | Input : AC100—240V 50/60Hz;  |  |                 |                  |
|  | Output : DC24V 2A (dual RJ45 interface)  |  |                 |                  |
| Net weight<br>(Including power cord and bracket) | 1.8 KG   | 2.3KG  | 3KG             | 3.8KG            |
| Gross weight                                     | 2.3KG  | 3.5KG  | 4.5KG           | 5.8KG            |
| Warranty   | 1 year   |  |                 |                  |
| Certification                                    | CE   |  |                 |                  |

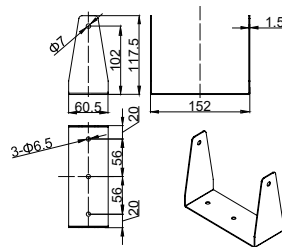
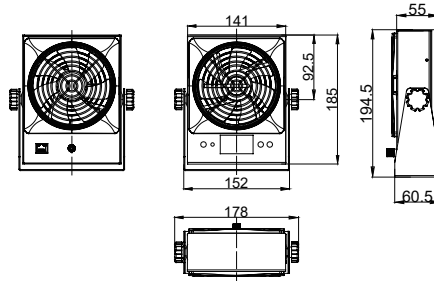


# Dimensions



## DJ2801

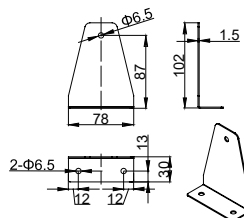
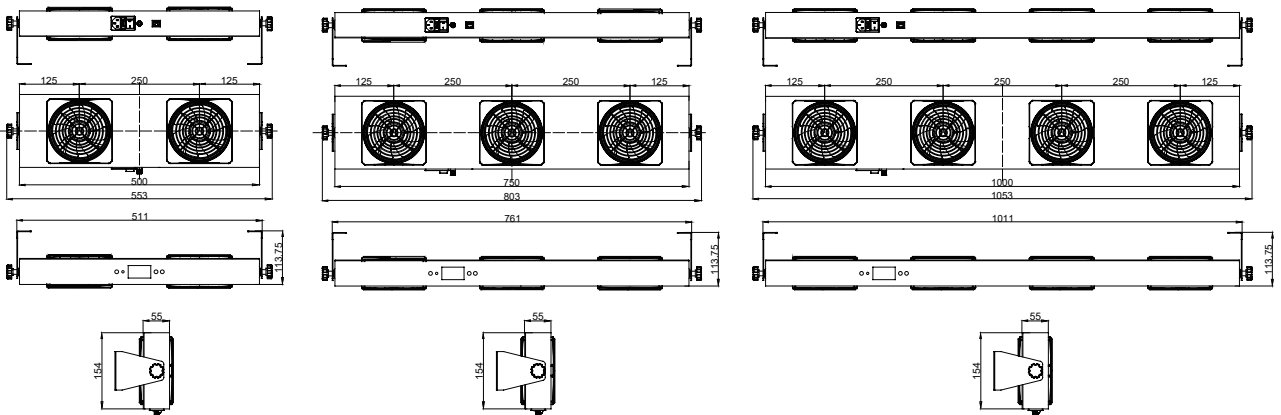
Unit: mm



Installation accessories  
 1 pair of U-shaped aluminum powder spraying mounting bracket,  
 1 pair of bakelite screw handles (M5×8)

## DJ2802/2803/2804

Unit: mm



Installation accessories  
 1 pair of U-shaped aluminum powder spraying mounting bracket,  
 1 pair of bakelite screw handles (M5×8)

# AP&T®

## Speciality Creates Value

Shanghai Anping Static Technology Co.,Ltd

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Tel : 021-64517676

Fax : 021-64517673

Postcode : 200233

Website : [www.ap-static.com](http://www.ap-static.com)

Address : 3/F,Building 27,No.69,Guiqing Road,Shanghai,China

