



Self-cleaning Suspended ionizing air blower

AP-DC2452-60C

User manual

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AP-DC2452-60C Self-cleaning Suspended ionizing air blower



Product description

AP-DC2452-60C overhead ionizing blower is one of the ionizing blower product series manufactured by Shanghai Anping Static Technology Co.,Ltd.

AP-DC2452-60C overhead ionizing air blower applies the DC current ion synchronous transmitting technology. High volume of positive and negative ion are generated by two independent transmitting electrode with direct current corona discharge and arrive the object surface where the static to be eliminated most equally. Eliminate static and control the remaining static under international standard.

Application

AP-DC2452-60C is widely used in electronics、plastic、chemical、printing and optics industry etc.

Features

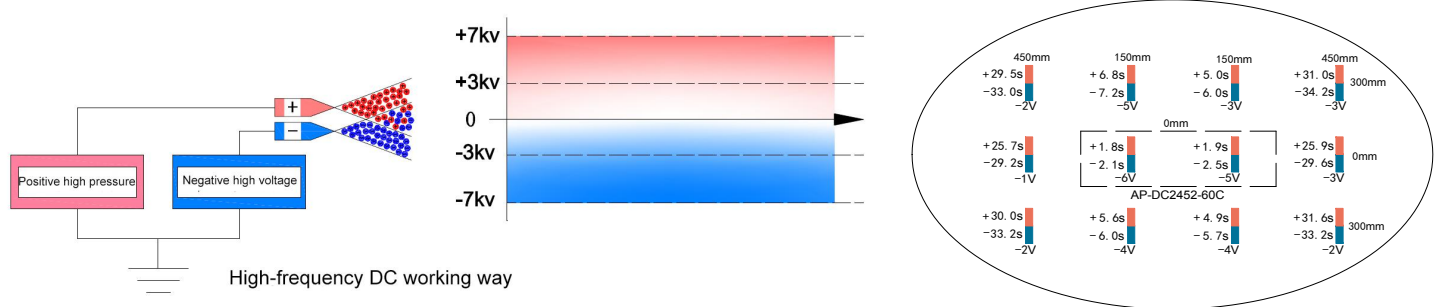
- 1) Suitable for static elimination in large area.
- 2) Dual unit independent ion sending port combination.
- 3) Has stepless speed regulation and a long service life.
- 4) Fast static elimination speed and good circuit stability.
- 5) Easy cleaning and maintenance.
- 6) Automatic brushing at startup.
- 7) Automatic brushing at 24 hours, eliminating manual brushing and maintenance.

Technical specifications

Input voltage	AC220V/50Hz or 110V/60Hz
Power	<15W
Working voltage	±DC4000-DC7000V
Ion emission	Steady state DC
Transmitting electrode	Tungsten alloy
Discharge structure	Uncoupled electrical contact (discharge cylinder)
Discharge range	600*300*750mm (L*W*H)
Discharge speed	≤3s (450mm from the center of the air outlet)
Ion balance	-15V ~ +15V (450mm from the center of the air outlet)
Alarm indication	Power indicator is on and working normally
Air volume(adjustable)	≤2*89.1CFM

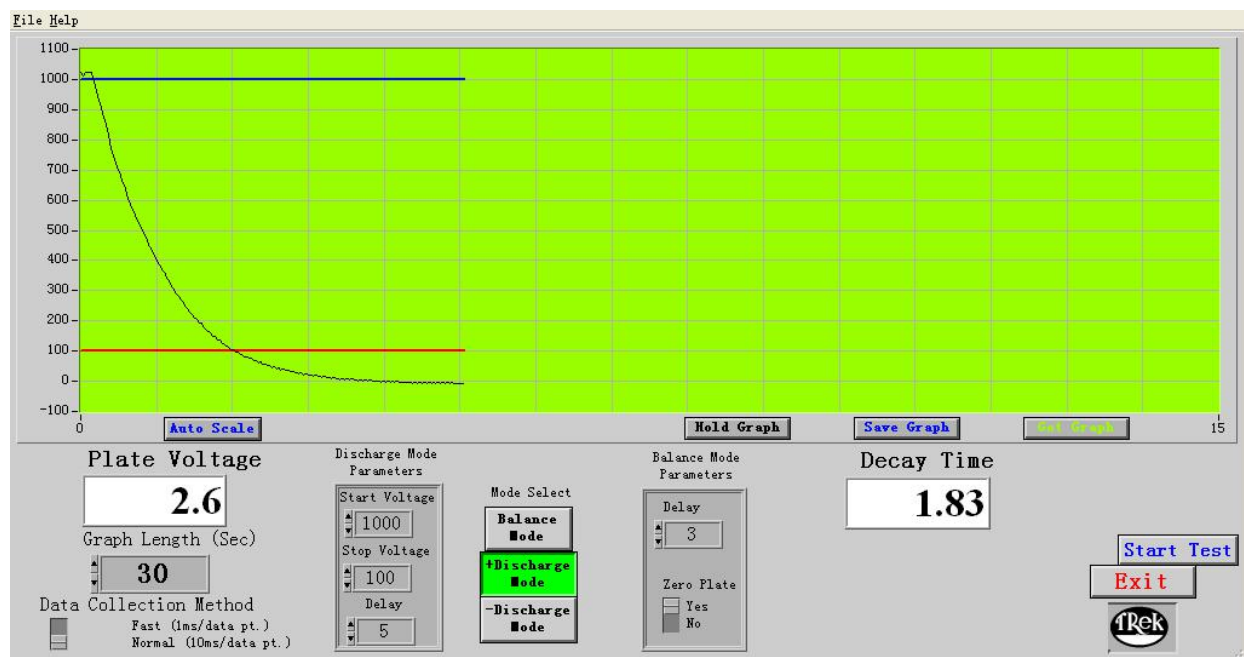
Audio noise	≤55db (150mm away from the air outlet)
Ozone thickness	≤0.05ppm (150mm away from the air outlet)
Operating temperature	0-50℃
Working humidity	30-70%RH
Dimensions	640*175*118mm (L*W*H)
shell material	Aluminum Dusting
Installation accessories	1 L-shaped aluminum dusting mounting bracket, 1 pair of bakelite screw handles (M6 × 12)
Net weight	2450g (including power cord, bracket accessories, etc.)
Gross weight	1 year
Quality assurance	CE

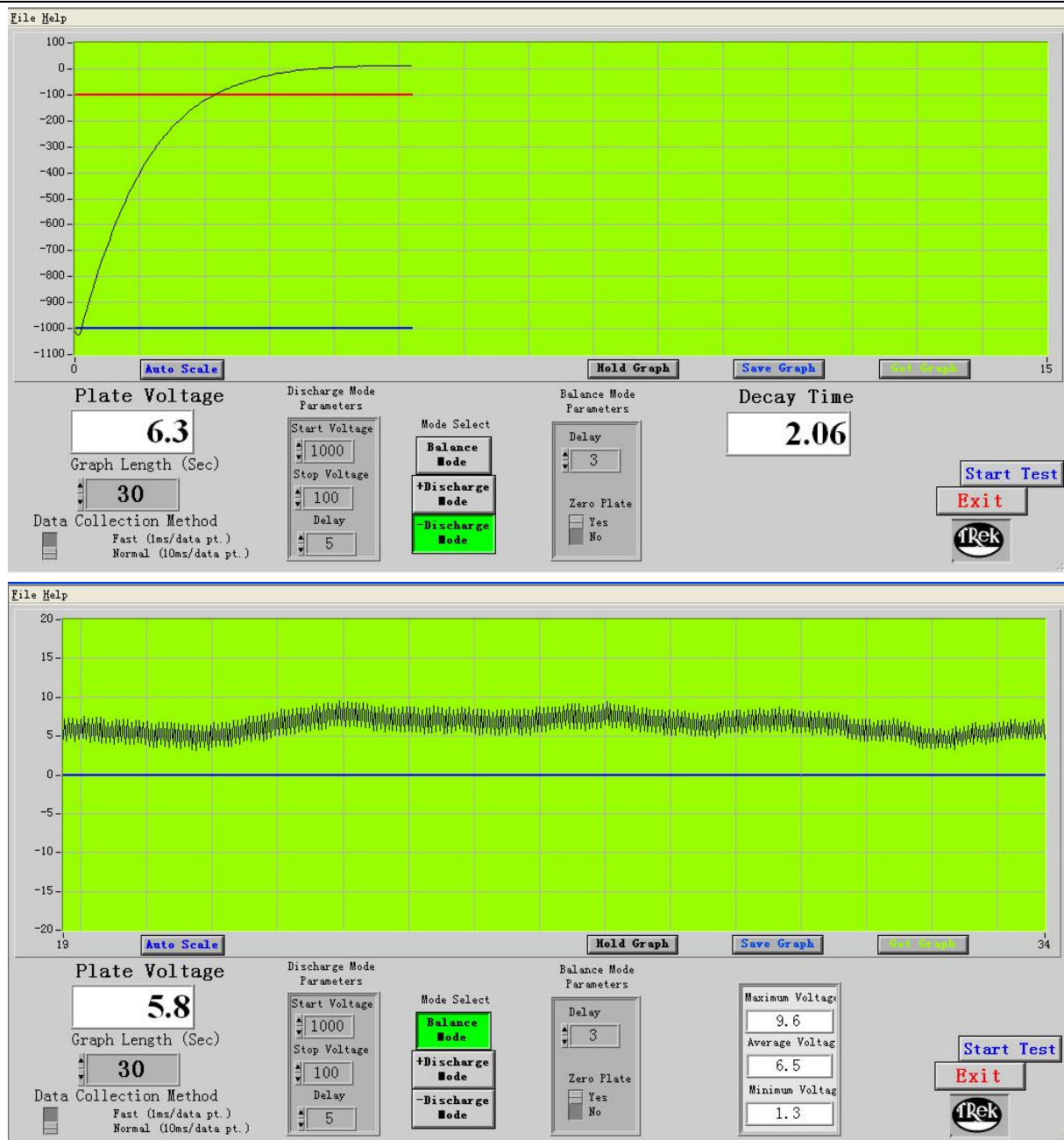
Working mode diagram



The test data chart is as follows (test distance: 450mm in front, maximum wind speed):

Static elimination effect diagram





Test standards: ANSI / ESD.STM3.1, ANSI / ESD.SP3.3, SJ / T 11446—2013

Test instrument: Treak157 tester

Test voltage: $\pm 1000\text{V} \rightarrow \pm 100\text{V}$ attenuation

Test environment: relative humidity: $50 \pm 5\%$; temperature: $23 \pm 3\text{ }^{\circ}\text{C}$;

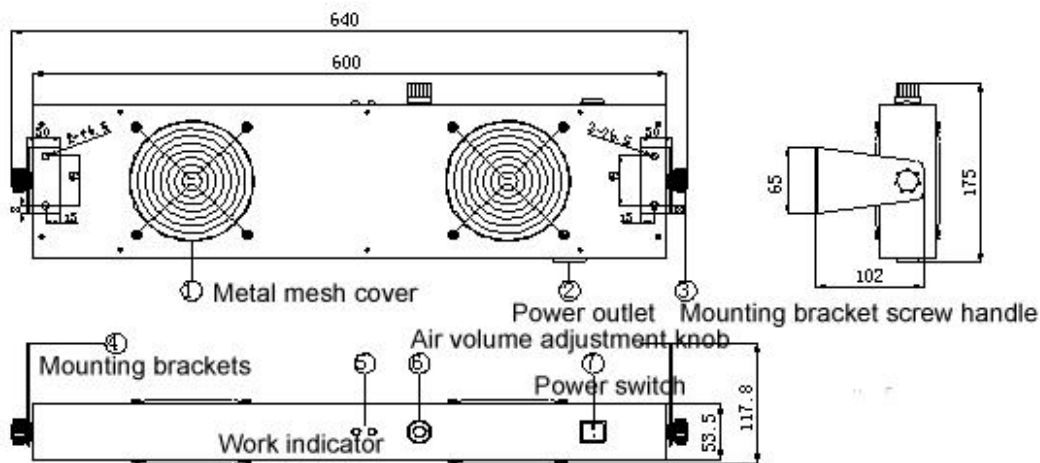
Safety warnings

1. Please read the instruction manual carefully before installing and using this equipment.
2. The entire set of equipment must be reliably grounded during use.
3. It is not suitable to use this equipment in $> 70\%$ humidity environment.
4. The use of this equipment in flammable and explosive environments is strictly prohibited.
5. Unauthorized disassembly of the product is strictly prohibited. Internal maintenance and repair must be performed by professionals.
6. It is strictly forbidden to touch the product with water stains, otherwise abnormality may occur, resulting in electric shock or fire.

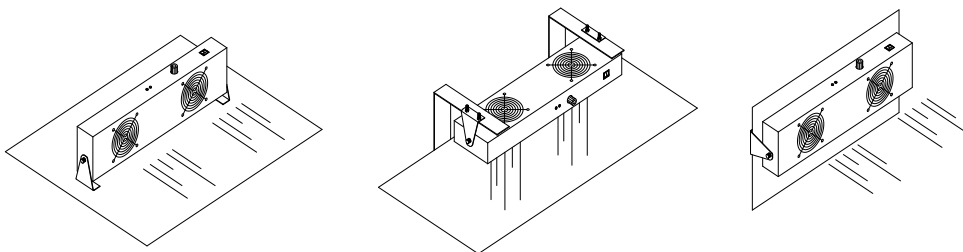
7. When inspecting or replacing the product, please turn off the power, otherwise it may cause electric shock or fire.
8. The product is designed to eliminate static electricity, and other uses are strictly prohibited. Any abnormal use may cause hidden dangers such as machine failure, electric shock, and fire.
9. It is strictly forbidden to touch the electrode needle while the power is on, otherwise it may cause malfunction and electric shock accident.
10. The discharge needle is a sharp metal object, please use it with care.
11. Before powering on the product, please check the specifications of the power supply. Any power supply that does not meet the specifications will cause damage to the product or even malfunction.
12. Please check the product's power cord / communication line regularly. If it is damaged, please replace it immediately. Otherwise, it may cause leakage, poor communication, and abnormal work.

Installation

1、 structure size:



2、 Installation method:



While using the ionizing air blower, the mounting bracket should be fixed on a solid and flat surface (such as a wall or a shelf) with screws or bolts. The angle of the ionizing air blower can be adjusted by the knobs on the two sides of the bracket to achieve the best antistatic effect.

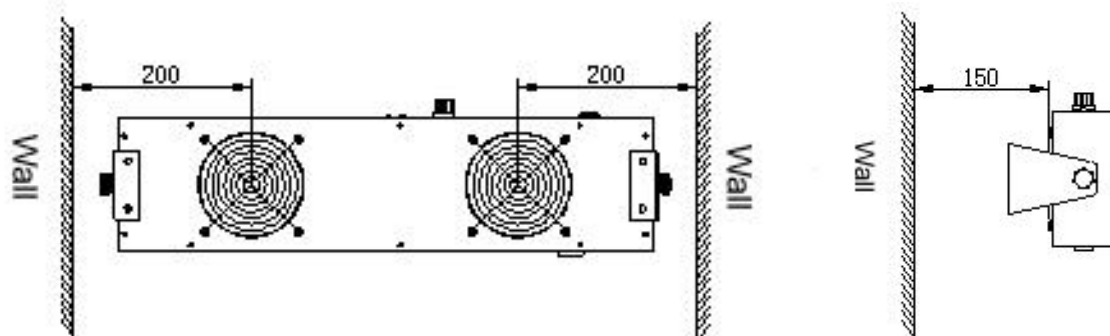
3. Technical tips:

- 1) When using an ionizing air blower, it should be placed in a static elimination work area, and the installation angle should be perpendicular to the surface of the charged body, about 300 ~ 750mm away from the static elimination object.

2) The area around the ionizing air blower should be at least 30cm away from the metal conductor and metal ground.

3) The ionizing air blower should be more than 20cm away from obstacles such as walls.

The air inlet is at least 15cm from the wall.



4.Failure solution:

NO	Problems	Possible reason	Solution
1	Fan panel indicator is off	Poor power cord connection	Check whether the power cord is intact and connected firmly
		Power supply voltage mismatch	INPUT: 220VAC 50Hz
2	Significantly reduced static elimination performance	Discharge needle contamination and damage	Clean or replace the discharge needle
		The orientation of the ionizing blower is incorrect	Confirm the best installation position
3	Reduced static elimination performance	There is a conductor or other ion fan around the ionizing air blower	Remove (moving) conductors or other ion fans
5	Unable to discharge	High voltage module is damaged	Return to factory
		Motherboard chip is damaged	Return to factory
6	Product smokes or burns	Burnout of main control board components	Return to factory

Maintenance

1. In order to ensure the good performance of the product, the fan should be cleaned and maintained in a timely manner according to the use environment and the required electrostatic protection requirements, that is, use an electrostatic brush, a dust-free cloth dipped in absolute alcohol to gently remove the discharge electrode and metal Carbon deposits on the grille. Note:

A. It must be operated 10 minutes after the power is turned off.

B. When the fan is in use, when the needle tip is dusty or white, it must be cleaned.

C. After cleaning, you must wait for the alcohol to completely evaporate before powering on. You cannot use any other organic solvents to clean the fan.

D. Alloy electrodes are consumables and are not covered by the warranty. The company has to charge for

2. Each control button on the fan panel presses the \ knob. The user should not press or rotate with excessive force. Otherwise, the device will be permanently damaged.

After sales service

2. AP & T promises to users as follows: Within one year from the date of purchase, the company repairs or replaces any spare parts that have been inspected for defects by the company free of charge. However, this commitment does not apply to the following situations: the equipment is used or installed by mistake; damage caused by negligence or accident during use; alteration, disassembly or repair has been performed by other service departments not authorized by Anping.

Packaging accessories

1. Warranty card 2. Instruction 3. Certificate 4. National standard power cord