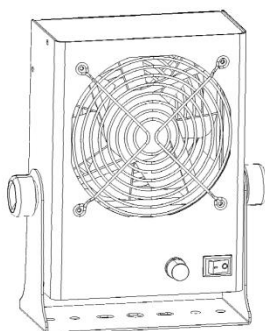




QUICK 443B STATIC ELIMINATOR

Instruction Manual



Thank you for purchasing our products. Please keep the instruction manual properly for future reference.

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1.Safety Instructions



CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.



WARNING

- The product should be used away from places where there is magnetic interference.
- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- Don't place the product in places where it may be exposed to rain or moisture.
- Don't use in flammable and explosive environments.
- After power on, don't touch the ion emitter.
- Please keep the air outlet and inlet unblocked and ensure there is no obstruction.
- In order to avoid electric shock and ensure the performance of static elimination, please make sure the ion grounding terminal is completely grounded.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

This portable desktop static eliminator adopts metal cover and adjustable air volume output. This static eliminator can be used for inspection, assembly, test and laboratory. It can also be used in some situations where electrostatic charges are problematic. For example: adsorption of dust on products; adsorption of plastic films due to static electricity.

3.Product Characteristics

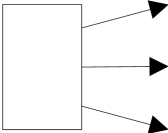
- DC static eliminator with multiple ion emitters, high ion density and good stability.
- Speed-adjustable fan generates large area ion airflow, air flow stepless adjustable, quickly neutralize static charges.
- The output ratio of positive and negative ions is adjustable, which can be used to adjust the ion balance.
- Compliant with safety certification, with electromagnetic protection function, will not cause electromagnetic interference to other equipment.
- Compact design, small and light, portable with adjustable airflow direction.

4.Product Specifications

Product Model	443B
Power Consumption	20W (Max)
Ion Balance	$\pm 10V$
Operation Ambient	0~50°C, 40%~60%RH
High-voltage Output	DC $\pm 5.0KV$
Effective Range	400*1500mm
Audible Noise	<45dB
Dimension(L*W*H)	152.5*81.5*215.5mm
Weight	About 2.1 kg

5. Static Eliminating Time Testing

Static eliminating time(S):

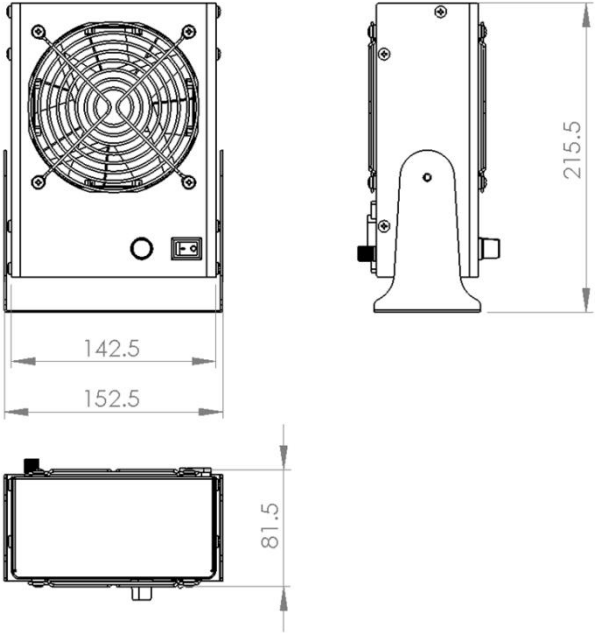
Fan Speed – High	30cm	60cm	90cm	120cm	
	1.4	2.5	5.4	8.8	15cm
	1.1	2.7	6	9.2	Center Line
	1.4	2.5	5.4	8.8	15cm

Note: Test steps should be proceeded in the condition of $22\pm 2^{\circ}\text{C}$ & $45\pm 5\%$ RH.

- 1) The ion balance and static eliminating time are tested according to the ion standard of the American ESD Association (in line with the international ESD standard ANSI/ESD-S20.20-2021).
- 2) The static eliminating time from 1000V to 100V is tested according to the position in the table above.
- 3) The above test data will vary due to changes in temperature, humidity and surrounding environment.

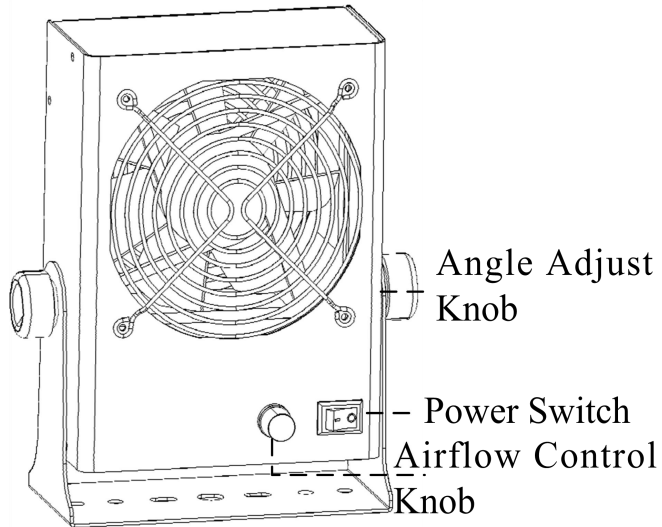
6.Functional Descriptions

6. 1. Dimensions



Unit: mm

6. 2. Part Descriptions



7. Installation

- 1) The base of the static eliminator can be directly placed on the workbench or fixed on the wall and partition.
- 2) When using the static eliminator, it should be placed in working area where static electricity need to be eliminated. The ion air should cover a large area as much as possible, and it should be about 300-900mm away from the object to be eliminated.

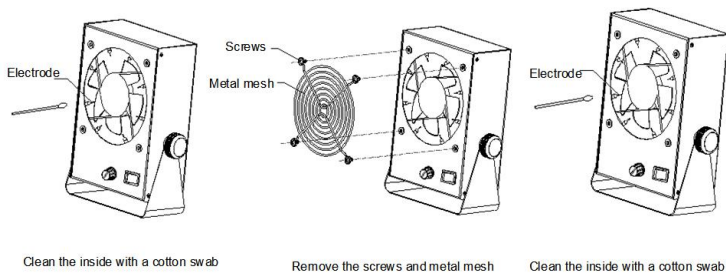
8. Operation

- 1) Connect the power supply, then turn on the power switch. The static eliminator will start to work.
- 2) Adjust the airflow adjusting knob to set the required air flow.

9.Maintenance

Ion emitter cleaning (Cleaning twice a week is recommended).

- 1) Remove the screws and metal mesh.
- 2) The ion emitter and other parts can be wiped with the attached cotton swab dipped in alcohol; the dust can also be blown off with a dust gun.
- 3) When finished, install the parts in reverse.



Ion balance measurement

It is recommended to use the 432A charge plate monitor to measure.

10.Troubleshooting

1) The unit doesn't work when the power switch is turned ON.

CHECK①: Is the fuse blown?

ACTION: Replace the fuse. (Make sure it is the fuse of the same specification.)

CHECK②: Is the power cord plugged in?

ACTION: Plug in the power cord.

2) The air is flowing but the static is not eliminated or the ion balance deviation is too large.(Ionization light flashing)

CHECK①: Does the dust or other objects cover the ion emitter?

ACTION: Clean the ion emitter.

CHECK②: Is the ion balance deviation too large?

ACTION: Adjust the ion balance.

⚠Note: If the problem cannot be solved according to the above list, please contact our company or local agent.

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