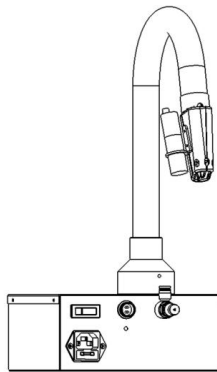




# QUICK 4456EF Ionizing Air Snake

## 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 item consists of a high-voltage power supply and an ionizing air snake. The high-voltage power supply is a single-phase power supply with an output voltage of AC5 KV. It is equipped with a delay function and can output stable ion airflow in coordination with the ionizing air snake. It can be controlled by pedal switch or photoelectric switch. It is mainly used in electronic manufacturing, textile processing, plastic products, spray printing and other applications that need to eliminate static electricity. And it also can be used for the control of auto equipment.

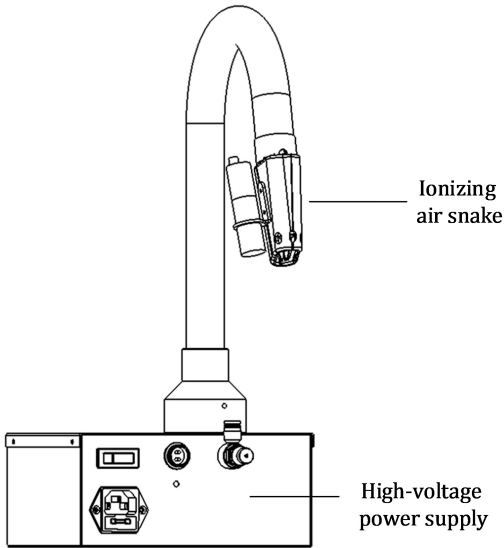
## **3.Product Characteristics**

- Adopt coupling high voltage discharge, safe and reliable, ion balance voltage output is adjustable.
- 5KV high voltage discharge, quickly eliminates static electricity within 2 seconds.
- The compressed air is used as an air source, the air pressure is high, with dust removal effect.
- Built-in sound attenuation system, low noise.
- Photoelectric switch and pedal switch optional, can control the air flow and high voltage simultaneously.
- The integrated design saves space and eliminates lengthy high-voltage lines.

## 4.Product Specifications

Product model	4456EF
Supply voltage	AC 220V
Air connector	6*8 PU pipe
High-voltage output	AC 5.0KV (Max)
Sub short-circuit current	<4.5mA
Rated output	12W
Numbers of load	1
Air requirement	Clean and dry 0.1~0.7Mpa
Operation ambient	0~50°C, 40%~60%RH
Effective range	Within 1000m
Static eliminating time	From 1000V to 100V less than 1S (150mm)
Ion balance	±35V
Weight	About 4.1 kg

## 5. Part Descriptions



## 6. Installation

- 1) Connect the high-voltage power supply to the pedal switch or photoelectric switch.
- 2) Connect the photoelectric switch to the ionizing air snake (when the photoelectric switch is used).
- 3) Connect the high voltage power supply to the air source.
- 4) Connect the power wire.

## 7. Operation

- 1) Turn on the external air supply switch to supply air.

2) Turn on the power switch, and the ionizing air snake starts to blow out ion flow to eliminate static electricity.

3) Operation (If the "Controller" used is different, and the corresponding working mode is also different).

a Pedal switch:

Step the pedal switch, and the ionizing air snake outputs high voltage and air flow at the same time.

b Photoelectric switch:

When the photoelectric switch detects an object, the red light is on, and high voltage and air flow are output to eliminate the static electricity of the object to be detected. (The detection distance of photoelectric switch can be adjusted)

4) Delay function adjustment

The static eliminator is provided with a delay function, and the delay time is adjustable. To adjust the delay function, turn off the power supply, open the upper cover of the high-voltage power supply, and adjust the potentiometer VR1 on the circuit board, adjust clockwise the delay function becomes shorter, counterclockwise it becomes longer, and the longest time is 12S.

5) Ion balance adjustment

Please check the balance voltage regularly (the ion balance regulator is on the side of the housing). When the voltage is negative, adjust clockwise; when the voltage is positive, adjust counterclockwise.

## **8.Maintenance**

For efficient operation, the ion emitter should keep clean.

1) Please use the dry air source to prevent moisture from entering the high voltage discharge area.

2) Clean the ion emitter regularly with a cotton swab.

## 9.Troubleshooting

Error	Reason	Solution
Low static eliminating efficiency	The ion emitter might be cleaned.	Turn off the power and clean the ion emitter with a soft cloth or a soft nylon brush. Do not use any solvent or metal brush. Regular cleaning can maintain good static elimination performance.
Static can not be eliminated	Power supply is not turned on	Turn on the power supply
	The high voltage cable is damaged or the ion emitter might be cleaned.	Turn off the power and clean the ion emitter and insulation. After cleaning, if the static electricity can not be eliminated after turning on the power, it indicates the high voltage cable needs to be repaired or replaced.
	Power supply may be damaged	Remove the high voltage cable from the power supply and test its output voltage separately. If there is no voltage output, it is necessary to repair or replace it. When in warranty service, pls provide the number of the power supply and explain the problem.



