Instruction Manual

High Frequency Air Ionizer KS21H

Thank you for purchasing a high frequency air ionizer KS12H.

Please read this instruction manual in great detail before operating the device. Keep this manual readily accessible for later reference.

1. Packing List

Make sure each of the following items are included in the pack.

(1)	Main Unit	1
(2)	AC Adapter	1
(3)	Stand	1
(4)	Knob Bolt	2
(5)	Rubber Pad	2
(6)	Grounding Wire	1
(7)	Instruction Manual	1

2. General Information

High frequency air ionizer KS21H is the most efficient static elimination (neutralization) device that prevents parts and components of electronic industry and precision instruments against ESD (Electro Static Discharge). Moreover, the device is widely used in plastic product, printing, spray coating, film product, medicine and packaging and so on.

The device, with piezoelectric HV power unit ,is light, small and free from EMI. It is equipped with auto ion balance and abnormal HV monitoring system.

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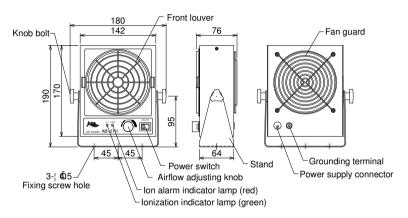
CE standard approved.

3. Main Features

- (1) Being small and light, the device performs strong static elimination capability. It has various applications, including desktop use and product line use.
- (2) Excellent auto ion balance and ionization performance; rapid ionization for both nearby and remote charged objects.
- (3) With ionization indicator light(green) and abnormal HV alarm(red).
- (4) Auto and stable ion balance. No periodical adjustment is

- necessary.
- (5) Special alloy discharge needle, more durable and wearable than tungsten ones.
- (6) Assembly and disassembly of the frount louver is easy, maintenance and cleaning of the device can be performed with ease.
- (7) Adjustable blowing angle and air volume.

4. External Dimensions and Part Names



Note: The outside drawing may change slightly due to improvement.

They should comply with real device.

5. Specifications

Power supply volt	AC100~240V 50/60Hz		
Current consumption	12VA		
Output HV	AC2200V		
Safety performance	Abnormal HV alarm		
Air volume	50∼120CFM		
Noise level	60dB(A) (Distance 1m)		
Allowable temperature	0~40℃		
Allowable humidity	20~70%RH (No drops)		
Ozone density	Less than 0.01ppm		
Weight	1.27kg (including stand)		

6. Operating Location and Usage

Operating Location

Please put the device in the place where the power switch and the indicator light are easy to be identified. Keep the device away from water, oil, high temperature, high humidity and high density dust. Do not operate the device under inflammable or explosive atmospheres. In addition, do not insert any object through the air inlet louver. Keep it unobstructed.

Usage

- (1) Install the main unit and the stand. Put the rubber pads between the main unit and the stand, then adjust the angle and tighten the knob bolt. The device can be used on desks or machines or product lines through the mounting holes(3-φ4.5).
- (2) Connect the AC adapter output terminal to the main unit, and then plug it in a AC socket. (Caution: Do not use other AC adapter at will.)
- (3) Ground the grounding wire.
- (4) Corona discharge occurs and a great amount of ions are emitted when the main unit is on. Meanwhile, ion flow is blown off through the front louver. Charged objects in the ionization area will be neutralized in no time.
- (5) The ion flow is adjustable through the airflow adjusting knob.
- (6) The device is mounted with auto ion balance system. No adjustment is necessary.
- (7) The red alarm indicator light illuminates when the high voltage power supply abnormally output. Turn the power supply off and check the problem, and then turn the power on after debugging.
- (8) Turn the power switch off after operation.

7. Abnormal HV Alarm

The device is equipped with abnormal HV alarm. The alarm indicator light illuminates when the following situations occur:

(1) Low output HV (2) Short circuit (3) abnormal HV discharge.

8. Ionization Performance

The ionization performance is tested according to American EOS/ESD-STM3.1-2000 standard.

The performances of this device have been rectified before it goes out. References are as follows:

Distance (mm)	300	600	900	
Positive decay time (sec)	0.9	1.6	2.8	
Negative decay time (sec)	1.1	2.0	3.6	
Ion balance (V)	Within 0±5V			

Note: The test results will vary slightly due to different test conditions.

The data above are just for your reference.

9. Daily Maintenance

- (1) <u>Cleaning of the front louver</u> Disassemble the front louver by pressing the side wrench inwardly. Clean it with a cotton swab or water it with neutral washer. Assemble it when it is dry.
- (2) <u>Cleaning of the discharge needle</u> Dust and contaminations will drift around the tip of the discharge needle after long use. Clean the discharge needle with a cotton swab. Periodical cleaning is necessary (once every 100 hours). If the discharge needle is dusty, clean it with an included cotton swab and alcohol. Do not damage or loosen the discharge needle.

\triangle	Note	Periodical and timely cleaning of the discharge needle is necessary, otherwise ionization performance is affected. The tip of the discharge needle is pointed,			
		be careful with your fingers when cleaning.			

10. Other Notice

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<u> </u>		grounded,otherwise		its	lifespan	is	
		shorte	ned.				