Specification

Point of Use Ionizing Blower_DC0901C

Thank you very much for purchasing our products, please read the manual in its entirety before use.

01 Product Picture

02 Safety

- Do not disassemble the product without permission.
- Do not use in dangerous environment.(such as flammable and explosive)
- Do not use in place with plenty of oil or water, high temperature and humidity, especially in places with condensation.

03 Product Description

- Adopting steady-state DC ionization technology, it is generally used to deal with static electricity problems during assembly, testing, and packaging. It can also be installed in equipment to provide rapid static elimination in a limited space to solve static electricity generated during high-end manufacturing processes.
- Steady-state DC ionization technology has the following advantages:
  - Compact body design, light weight,
  - Both sides buckles design, can lock the blowing angle,
  - Stable ion balance,
  - Longer cleaning and maintenance intervals,
  - No need for grounding, easy installation,
  - The emitter tip has high-voltage shielding technology to avoid electric field induction charging, In the case of low wind speed, it can provide faster static dissipation speed, low wind speed and low noise, which will not cause much noise to the production environment, making the operator more comfortable.

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Features	Benefits
Compact Ionizer	Small size provides fast static elimination in limited space
Eliminate static electricity speed 30CM＜3.0sec	Fast elimination speed
±20V ion balance, 30cm distance	Automatic balance, no need to adjust
Suction type design (fan at the front and discharge emitter at the back)	Positive and negative ions are more evenly distributed
Both sides buckles design	The blowing angle can be locked to prevent the fuselage from sliding to change the blowing angle
The discharge emitter can be cleaned with alcohol cotton through the rear grille	Easy maintenance
Tungsten material discharge needle	longer service life
Alarm and equipment monitoring interface	When the high voltage is abnormal, the red light will be on and the buzzer will sound and output DC24V signal
DC24V Input	Can be powered by device power
Meet cleanliness requirements	Small space is required, reducing the impact on laminar wind

04 Specifications

Model	DC0901C
Input Voltage	DC24V±5%
Operating Power	Approx. 6W
Decay Time	Approx 1.5s (30 cm distance, maximum air volume, No dust filter)
Ion Balance	±20V 30CM Distance
Technology	Steady-state DC ionization technology
Emitter Material	Tungsten
Alarm Display	Operation indicator, high voltage normal indicator, high voltage abnormal indicator, red indicator
Signal output	When the high voltage is abnormal, the red light will be on, and the DC24V signal will be output.
Air volume	1.4 m^3/min
Ozone	Below 0.005ppm (distance 150mm)
Operating Env.	0-40°C 20-75%RH（non condensing）

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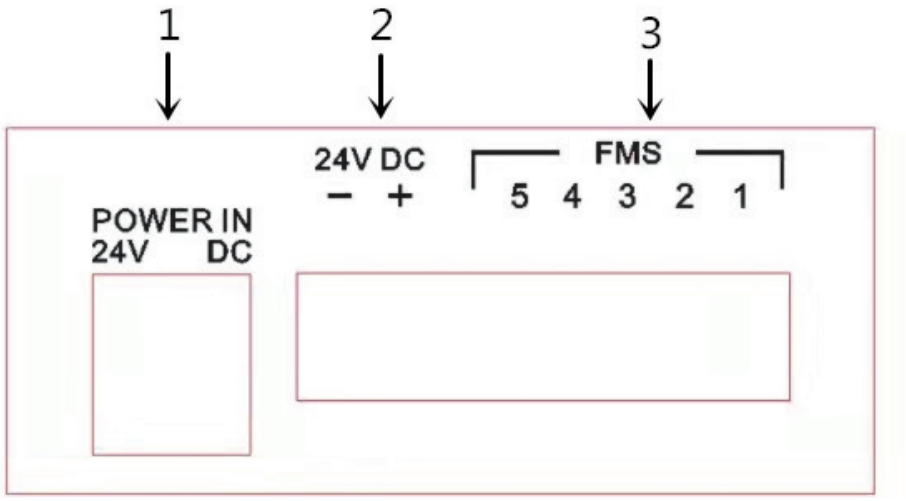
Dimension	130*142*64mm Without bracket 160*160*64mmWith bracket H*W*D
Net weight	Aprpox0.52Kg
Case material	ABS Shell + aluminum alloy oxide bracket
Warranty	One year
Certification	CE FC

05 Operation Panel Diagram

- POWER Operation indicator
- ALARM Alarm Indicator
- ON Power ON
- OFF Power OFF



- 1. DC24V power interface
- 2. The device comes with a DC24V interface
- 3. FMS interface

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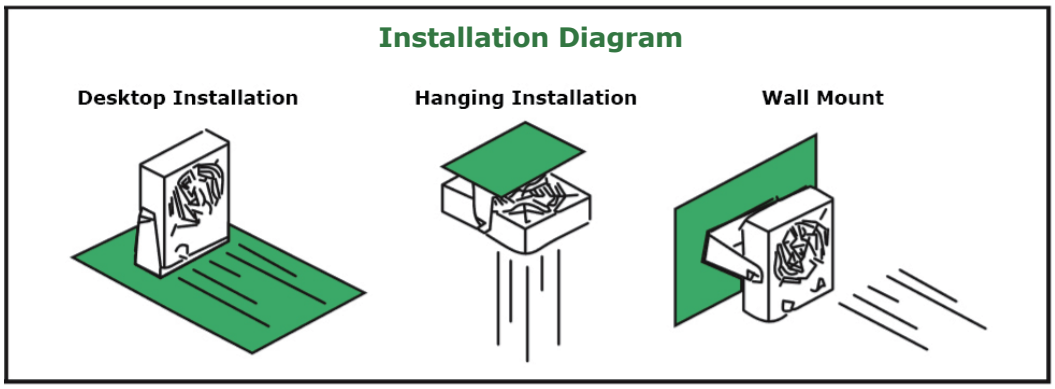
06 Installation

- Insert the DC head of the attached power adapter into the power port on the back of the instrument, connect the power adapter to the AC110-220V socket, the POWER green indicator light is on, and the instrument is running normally.

07 Installation Method

- Use M6 screws and nuts to fix the bottom bracket of the fan at an appropriate position that needs to eliminate static electricity.
- When using more than two ionizers, make sure to keep a distance of at least 100mm between the two.
- The distance from the air outlet needs to be at least 100mm away from static objects, and reverse charging may occur within 100mm.
- The ionizer is at least 300mm away from the metal conductor, and the air inlet is at least 150mm away from the wall and other objects.

Notice: Ionizer has to be ground properly to make sure ion output automatic balance



08 Testing Method

Test the two performance parameters of bias voltage and dissipation time.

Factory test method:

- Equipment name: The company uses ME-288B rechargeable flat panel tester (CPM).
- The test instrument must be well grounded, and the ionizer under test must be well grounded.
- The ion blowing port of the desktop ionizer is centered on the flat tester and tested at different distances such as 30cm, 60cm, and 90cm.
- The test is carried out at maximum air volume and no dust filter.

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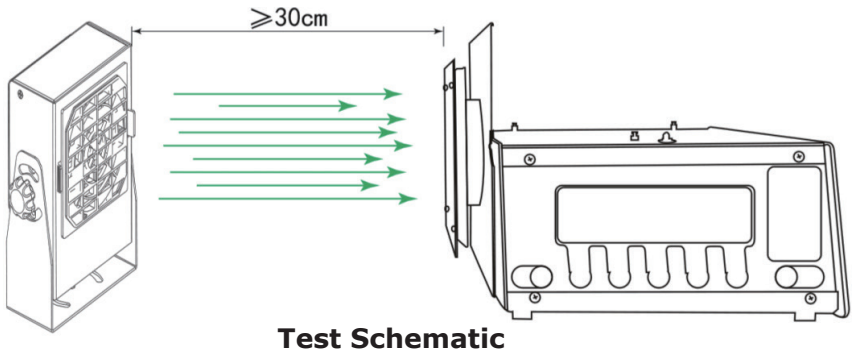

Test Schematic

Field test method:

- During on-site testing, the test panel of the instrument should be placed where the ESD sensitive components are actually operated.
- The specific test method is subject to the instructions of different test instruments.

09 Static Elimination Performance

Operating Voltage: DC24V Test Voltage ±1000V-±100V		Temperature23±3°C Humidity50%±5%		
Distance(mm)		300	600	900
Static elimination time	Positive	1.3S	5.8S	9.7S
	Negative	1.5S	6.5S	10.6S
Residual voltage	Positive	±20V		
	Negative			
Measurement method: use 20PF, 150mm static elimination monitor to measure.				
When the air volume is maximum, the dissipation time from ±1000V---±100V.				
Different environment test results are different, the above is the reference data, please test according to the actual use environment.				

10 Routine Maintenance

Cleaning of the discharge emitter

- After the discharge emitter is used for a long time, there will be dust and other pollutants in and around the discharge emitter.
  - Use cotton swabs to remove contaminants.
  - The discharge emitter should be cleaned regularly (approximately 100 hours of use need to be cleaned once). When the pollution is serious, the cotton swab can be cleaned with alcohol. Be careful not to damage the discharge emitter when cleaning.

11 Abnormal Alarm

- When the high pressure is abnormal, the red light of ALARM will prompt the operator to overhaul the fan.

12 Warranty

ESDMAN's products have undergone strict factory inspection. In case of failure, please contact the nearest ESDMAN office and provide details of the failure.

Warranty Period

- The warranty period is one year, starting from the day the product is delivered to the place designated by the purchaser.

Warranty

- This product is inspected and qualified by our company. During normal use during the warranty period, such as damage or malfunction due to poor design and manufacturing, free maintenance will be provided.

The following conditions are not covered by the warranty

- The discharge emitter is a consumable part and is not covered by the warranty.
- Breakage, breakage or malfunction due to abnormal use.
- Failure caused by changes or disassembly and maintenance by non-maintenance personnel of our company.
- Failures caused by natural force majeure factors such as fires, natural disasters, floods, and earthquakes.
- Failure caused by external factors such as abnormal voltage.

13 Standard Components (Packing List)

After unpacking, please confirm the package contents first	
DC0901C	1 Set
Power Adapter	1 Unit
Bracket	1 Unit
Fixed Handle	2 Units
User's Guide	1 Unit
Factory Report	1 Unit