Matronic
ELECTRONIC PRODUCTION TECHNOLOGY

Mini Ionizing Air Fan

1155-J005

Matronic i Sverige AB • 08-556 291 00 • info@matronic.se • matronic.se

Suitable for electronics, optoelectronics, semiconductor and other industries

Effectively solve the problems caused by static electricity

Static Removal

Prevent adhesion of objects

Prevent blockage of adhesion

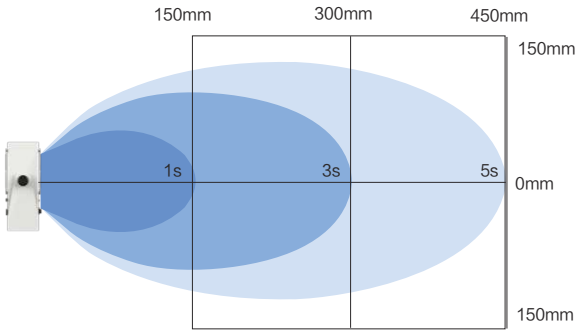
Control ink splashing

Prevent uneven scattering

High Efficiency Static Removal

Keep a clean production environment and stay away from static electricity

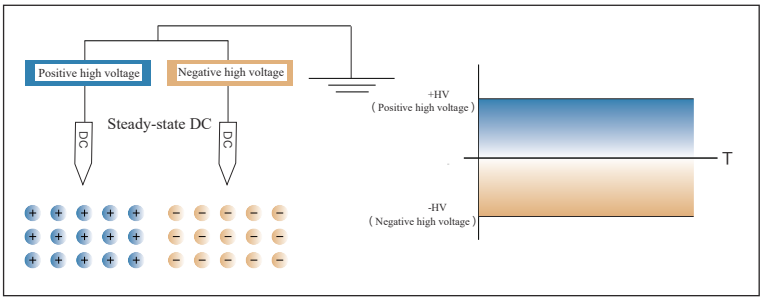
Discharge effect



Test standard：ANSI/ESD.STM3.1，SJ/T 11446—2013
Test instrument: Trek 157 static tester
Test voltage：±1000V → ±100V attenuation
Test environment：humidity 50±5%；temperature 23±3℃

Working way

AP-DC2453 mini ionizing air blower uses positive and negative synchronous emission electrodes to generate corona discharge through DC high voltage, ionize air molecules and generate a large number of positive and negative air ions, which are blown to the surface of the object with electrostatic to be eliminated by the axial fan.



Features

Safe / Easy to use / Durable

No.1

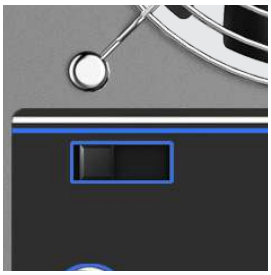
Mini type

Compact size and easy to install which can be installed inside other equipment for static removal.

No.2

3 speed adjustment

A button on the back of ionizing air blower to adjust the wind speed of high, middle and low.



No.3

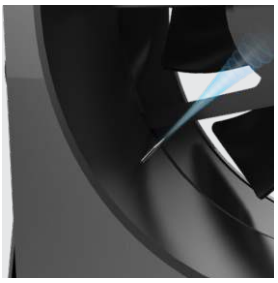
External power adapter

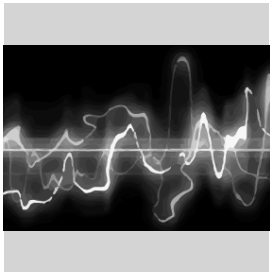
Configure special external power adapter.

No.4

Standard tungsten alloy needle

Longer life time compare to titanium and silicon materials.





No.5

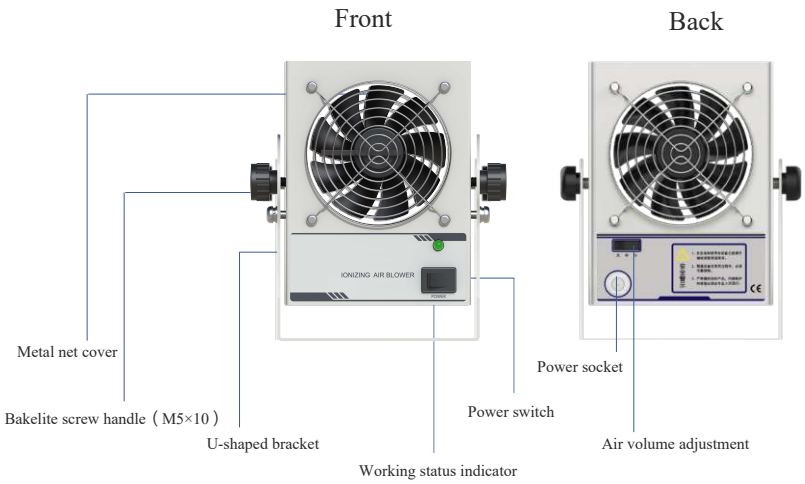
CE certification

CE certified which is a high-security and high-reliability static eliminator.

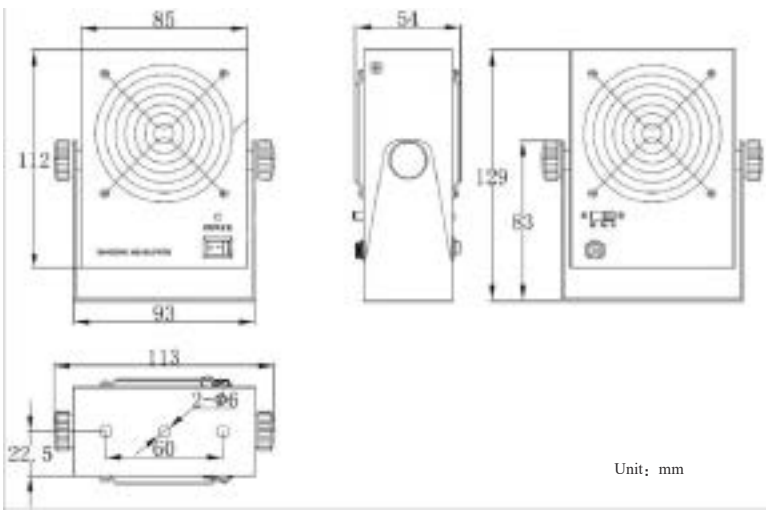
Product specifications

Product details / Product specifications / Product size

Product details



Product size



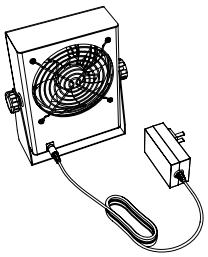
Product specifications

Model	1155-J005
Input voltage	DC12V
Power	5.5W
Working voltage	±DC3000-DC5000V
Ion emission	Steady-state DC
Emitter electrode	Tungsten Alloy
Discharge structure	Uncoupled electrical contact (discharge cylinder)
Discharge range	450*300mm（L*W）
Discharge speed	≤ 1.5s（150mm away from the air outlet）
Ion balance	-15V ~ +15V（150mm away from the air outlet）
Alarm indicator	The power indicator light on indicates working normally
Air volume	≤ 48.2CFM
Noise	≤ 38.9db（1m away from the air outlet）
Ozone thickness	≤ 0.05ppm（150mm away from the air outlet）
Working temperature	0-50℃
Working humidity	30-70%RH
Dimensions	85*54*112mm（L*W*H）（Fan body size）
Shell material	Aluminum powder spray
Packaging accessories	1 pair of U-shaped aluminum spray powder mounting bracket, 1 pair of bakelite screw handles(M5×10)
Power adapter	INPUT:AC100-240V 50/60Hz；
	OUTPUT:DC12V 1000mA
Net weight	350g（Fan body, including mounting bracket and screw handle）
Gross weight	600g
Warranty	1Year
Certification	CE

Products Use

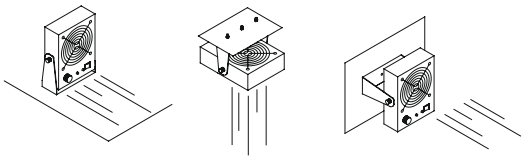
Step of use/Installation position/Packing accessories

Step of use



1

Take out the power adapter from the packing box and connect the ionizing air blower.
Place the ionizing air blower close to the working area (about 150~450mm away from the object with electrostatic to be eliminated), and the air outlet of the ionizing air blower must be vertically aligned with the object to be eliminated.

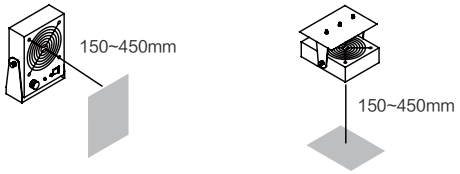


2

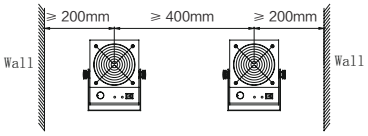
Use screws or bolts to fix on a firm and flat surface(such as a wall or shelf). The angle of ionizing air blower can be adjusted by the knobs on both sides of the bracket to achieve the best static elimination effect.

Installation position

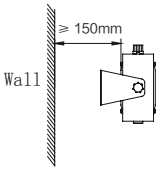
1. Place the ionizing air blower in the working area where static electricity is to be eliminated. And the installation angle should be perpendicular to the surface of the charged body and about 150 to 450 mm away from the static electricity object.



2. Ionizing air blower should be at least 300mm away from the metal conductor and metal grounding body.
3. Two ionizing air blowers should be installed side by side with an interval of more than 400mm and more than 200mm away from obstacles such as walls.



4. The air inlet is at least 150mm away from the wall.



Packing accessories

Part name	Picture	Part No.	Specification
Power Adapter		0DYK00602	DSS28-1202000-F 100-240V~1.0A 50/60HZ 12V-2.0A

⚠ Safety warning

1. Read the operating instruction carefully before installing and using the device.
2. Do not use the device when the humidity is higher than 70%.
3. Do not use the device in inflammable and explosive environment.
4. It is strictly forbidden to disassemble products without authorization. Internal maintenance and repair must be carried out by professional personnel.
5. The product is strictly prohibited to touch liquid during use, otherwise there will be abnormal, resulting in electric shock or fire.
6. Power must be turned off during inspecting or replacing the product, otherwise it may cause electric shock or fire.
7. The product is specially designed for removing static electricity and is strictly prohibited for other purposes. Any abnormal use may cause machine failure, electric shock, fire and other hidden dangers.
8. It is strictly forbidden to touch the electrode needles when power is on, otherwise it is easy to cause fault and electric shock accident.
9. Discharge needle is a sharp metal object, please use it with care.
10. Please check the specifications of the power supply before powering on the product. Any power supply that does not meet the specifications may cause damage or even failure to the product.
11. Check the power cord regularly. If it is damaged, replace it immediately; otherwise, leakage and abnormal operation may occur.

⚠ Trouble shooting

NO	Problems	Reasons	Solutions
1	The indicator on the fan panel is off	Poor contact of the power cable	Check whether the power cable is in good condition and securely connected
		Power supply mismatch	Confirm the power supply specification (INPUT: 100—240VAC 50/60Hz; OUTPUT: 12VDC 1000mA)
2	The electrostatic removal performance is obviously reduced	Discharge needle is polluted and damaged	Clean or replace the discharge needle
		Bearing set of ionizing air blower is improper	Confirm the best bearing set
3	The electrostatic removal performance is reduced	There are conductors or other ionizing air blowers around	Remove (moving) conductors or other ionizing air blowers
4	Unable to discharge	High voltage module is damaged	Return to factory for maintenance
		Main-board chip is damaged	Return to factory for maintenance
5	The product is smoky or burnt	The main control board components are burnt out	Return to factory for maintenance

⚠ Maintenance

1. The ionizing air blower should be cleaned and maintained in time according to the use environment and the required electrostatic protection requirements in order to ensure the good performance of the product. That is, gently remove the carbon deposits on the discharge electrode and metal net cover with electrostatic brush, dust-free cotton swab, dust-free cloth dipped in anhydrous alcohol.
   Note:
   A、Operation must be done 10 minutes after power cut off.
   B、It must be cleaned when dust or white stuff appear on the tip of the needle during use.
   C、The ionizing air blower must be powered on after alcohol is completely volatilized after cleaning. No other organic solvent can be used to clean the ionizing air blower.
   D、The alloy electrode is a consumable product which is not included in the scope of warranty and will be charged for replacement when repairing.
2. Do not press or rotate the control buttons on the fan panel too hard; otherwise, the device will be permanently damaged.
3. If the working indicator light on the front panel of the fan is off or red, it should be stopped and repaired by professional maintenance personnel. It can be used only after the electrical performance index is normal.