



ECO-F02 OVERHEAD AC IONIZING BLOWER INSTRUCTION MANUAL

1 Introduction

ECO-F02 Overhead Ionizing Blower has outstanding ion eliminating function. It's the ideal equipment for protecting sensitive device & ESD protected area, such as, electronic production line, maintenance bench, etc from pollution or interruption of static.

2 Safety rules

NOTE : Please read this operating instruction manual thoroughly and completely before installation and operation. All the ECO series ionic blowers must use the power socket equipped with safety standard power cord and mustn't change or use other power socket with bad grounding system.

- Prohibit to operate the blowers in flammable and explosive environment.
- Prohibit to insert objects into the air outlet or inlet.
- Ensure the air input and output freely.
- Reliable grounding is necessary before operating.
- Do not expose to sunshine or rain.
- Ask professional staff to install and make sure the installation is fasten enough.

3 Features

- Easy to install
- Easy to operate
- Large ion air output
- Flexible air speed adjustment(Non-step speed variation)
- Little noise, large output volume
- Convenient to maintain
- Suitable for many different situation

4 Specification

- Power Supply: AC 220V 50Hz or AC 110V 60Hz ※
- Air Output: 200CFM.(maximum)
- Effective coverage: 300mm~1200mm
- Operating Humidity: 55%RH (±5%)
- Dimension: D155mm X W600mm X H85mm
- Weight: 5.8kg
- Operating Current: 0.31Amps (in high speed)
- Ion Balance : $\leq |\pm 10|V$
- Operating Temperature: 0°C~50°C
- Material: cold rolled steel plates
- Colour: off-white

※Please confirm the voltage of ionizing blower and use the suitable one before power on.

5 Packing list

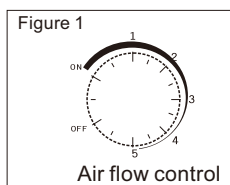
- 1 ECO-F02 Ionizing Blower
- 1 Power Cord
- 1 Operating Instruction Manual
- 1 Inspection Report
- 1 Warranty Card

6 Installation

Install ECO-F02 ionizing blower above or in the front of the ESD protected area. The effective distance between air outlet and device, which need to be protected, is 300mm to 900mm.

NOTE : The air should blow the hands and area needed to be protected rather than human body. Ensure the objects, which need to be protected, is in the effective coverage and no barriers between air outlet and the object.

7 Operation



When the ion blower is fixed completely, please check the power cord and turn on blower. The blower is turned on when you hear a “Pa” sound. At this time, the ion indicator is on. At the beginning, the air speed is maximal. You can adjust the speed according to the practical situation.

8 Power supply

The ECO-F02 Ionizing Blower's power supply is AC220V 50Hz or AC 110V 60Hz. If your power supply is different from the standard power supply above, please consult the supplier. We will make some change according to your requirements.

9 Neutralization time

The neutralization time depends on the air speed and air output. The higher the speed & the larger the air output is, the shorter the neutralization time will be.

If the object with static charges involved by ion airflow, the charges on the surface will be eliminated. Those charges reserved in the coverage scope will not be polluted again.

10 Regular maintenance

The cleaning and maintenance will directly affect the blowerintenance for ECO-F02 is quite easy. You only need to turn the black knob at the centre of air outlet for 360° several times. Cleaning frequency should base on its operation environment and the specific situation. The blower itself will absolutely not send out particles and dust and can completely measure up with the requirements of clean room.

11 Cleaning

Try to clean the cover and crust with alcohol periodically.

NOTE :Please ensure that the power supply is turned off before cleaning. Please use the blower after itectric shock or other accident.

12 Neutralization performance

To test the ion output, decay time and ion balance by comprehensive static tester.

Ion Output Test (at the highest air speed):

*NOTE :The test result will vary with the test conditions.

Test distance	Decay time
300mm	<= 2.0 Sec.

13 Inspection

According to ANSI/ESD-STM3.1 ionizing elimination equipment inspection processor, we need a piece of 15cm*15cm metal test plate and the standard tester TREK 156A to test the decay time(from $\pm 1000V$ decrease to $\pm 100V$).

14 Calibration

The performance of ECO-F02 is quite stable and assured. All the ion balance devices are built-in model and pre-setting is less than $\pm 10V$, users needn test, please take above processes for reference. If the decay time becomes longer, please clean the ion needles. If ion balance worse than required, please contact with supplier directly.

15 High voltage warning

NOTE : ● Prohibit to insert objects into the air outlet or inlet.

- Prohibit to use improper method to test the blower, or it may destroy internal devices.
- Prohibit to operate the blowers in flammable and explosive environment.

16 Warranty

- The warranty period of ECO series products is 1 year from delivery. (Destroy by man or wrong usage is not suitable for the warranty period.)
- Free technoly guide and lifetime maintenance are available.



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■ Suppliers Information



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