



# OPERATING INSTRUCTION MANUAL

## BFN-700 MINI DC TYPE IONIZER

### PRODUCT INTRODUCTION

Air ionizers are widely used by manufacturing industries today. The air ionizers' concept is to add very nearly equal numbers of positive and negative ions to the air enable to increase the electrical conductivity of the air. It neutralized the static charge on insulated and isolated objects by producing a balanced source of positively and negatively charged ions.

BFN-700 MINI DC Ionizing Blower has outstanding Ion-eliminating performance; it is your ideal device to prevent static pollution and damage in the ESD area for electronic production lines and maintenance platforms.



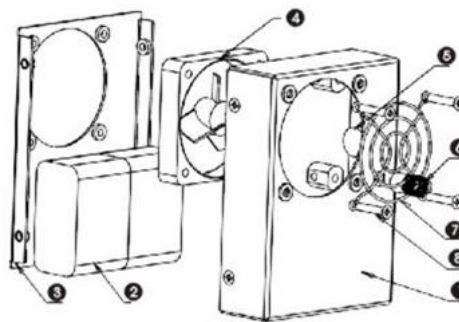
#### Notes:

Please read the user guide carefully before operation. All BFN static eliminate series cannot be used under flammable and explosive environment. Don't used temporary common socket as power, all BFN ionizing blower series must be used with the power socket which has a standard power cable, and do not use the socket that has no grounding.

### SPECIFICATION

<b>Power Supply</b>	AC110 (±15%)/60Hz AC220 (±15%)/50Hz	<b>Working Condition</b>	Temperature: 0°C – 50°C Humidity: 20% – 85%
<b>Working Current</b>	0.04A (Max Fan Speed)	<b>Working Distance</b>	5mm – 380mm
<b>Air Output</b>	25 CFM	<b>Decay Time</b>	≤ 2.0 sec @ 100mm
<b>Material</b>	Aluminium Plates	<b>Ion Balance</b>	≤ ± 10V
<b>Weight</b>	368g (Blower) 920g (Control Box)	<b>Dimension (mm)</b>	W85 x H110 x D34 (Blower) W105 x H55 x D132 (Control Box)

### STRUCTURE



No	Description	No	Description	No	Description	No	Description
1	Crust Body	3	Back Cover	5	Power Socket	7	Protection Cover
2	High Voltage Bag	4	Fan / Blower	6	Ion Lamp	8	Fixing Screw

## **PACKING LIST**

- BFN-700 Mini Ionizer
- Transmission Cable
- Control Box
- User Manual
- Warranty Card
- Calibration Certificate

## **SAFETY**

- Do not operate the ionizer in flammable and explosive environment
- Do not insert object into the air outlet
- Make sure it is grounded well before using
- Make sure power is cut-off before conducting cleaning and maintenance. Make sure the ionizer is completely dry (include the metal crust) before using after cleaned by alcohol or other preparations.
- Do not disassemble or repair the ionizer by yourself.

## **FEATURES**

Specially designed to fit on small area and suitable for all kinds of situation needed to protect from static voltage.

- Thin, light, convenient and practical
- With large ion output that can eliminate static voltage quickly
- Adjustable air speed of the fan
- Especially suitable for small working area

## **INSTALLATION AND APPLICATION**


Put BFN-700 on table-board or fix the bracket of blowers on proper plane, make sure of the effective distance is between 5mm – 380mm, make sure air covers all protection area by adjusting the angles. The air should blow to the controlled area and not directly pointed to human body.

Decay time is related to the strength of air flow provided by the ionizer, the farther the ionizer the longer the decay time. We strongly advise user to keep the BFN-700 at a distance between 5mm to 300mm for better ionization effect.

## **OPERATION GUIDE**

### **TURN ON THE BLOWER**


When the ion blower is installed and fixed, please check and connect the ionizer to the control box by the transmission cable and turn the power switch of the control box to “ON”. At this time, the ionizer indicator is on. At the beginning, the air speed is at maximum level enable to provide full-pressure start. Then adjust the speed according to the practical situation.

 **Attention:** Do not insert objects into air inlet, and make sure ionizer is grounded well before using.

## **REGULAR MAINTENANCE**

BFN blower series do not release dusts themselves; they can completely measure up the different requirements of cleanroom environment. But it is necessary to clean blowers to ensure it can work normally due to the particles and dust floating around which may pollute the blowers.

You can use soft brush and compressed air to clean, or use tampons/cotton swabs with 35% industrial alcohol. You can clean according to the periodic checking data or at practical situation.

 **Attention:** Make sure that power is cut off before cleaning and maintenance. Make sure that the ionizer is completely dry before using to avoid any damage to the product and to the user as well. Please be careful when disassembling the ionizer.

## **CALIBRATION**

BFN-700 has stable performance, but the parameters may change according to the affection of operating temperature and humidity, and fluctuation of voltage.

Users can test ion balance or offset voltage and static decay time by portable ionizer testing device such as Charged Plate System (CPS) at the working area. Periodic checking is requested.

User is requested to calibrate the CPS equipment that used to verify the performance of the ionizer at least one time a year.

Operating manual is only for BFN-700 users. It includes the tester's components, operation and some concerning information, some upgrading property with continuing stability, slightly difference will be allowed with operation and manual.



### Suppliers Information

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