



OPERATING INSTRUCTION MANUAL

BFN-702⁺ (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-702⁺ OVERHEAD DC Ionizing Blower have 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.



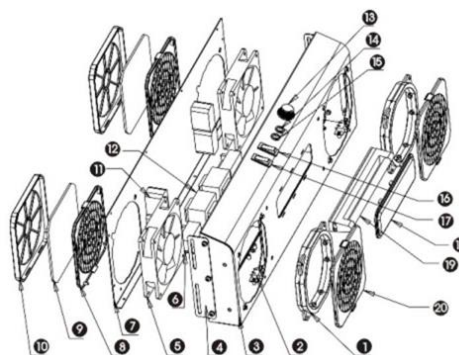
Notes:

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

Power Supply	AC110 (±15%)/60Hz AC220 (±15%)/50Hz	Working Condition	Temperature: 0°C – 50°C Humidity: 20% – 85%
Working Current	0.1A (Max Fan Speed)	Working Distance	300mm – 1200mm
Dimension (mm)	W555 x H85 x D180	Decay Time	≤ 2.0 sec @ 300mm
Material	Aluminium Plates	Ion Balance	≤ ± 5V
Weight	3.0kg	Air Output	160 CFM

STRUCTURE



No	Description	No	Description	No	Description	No	Description
1	Ion Rack	6	Control Board	11	High Voltage Bag	16	Power Switch
2	Jiggle Switch	7	Back Cover	12	Transformer	17	Lighting Switch
3	Crust of Blower	8	Plastic Panel	13	Speed Knob	18	Lamp Cover
4	Swinging Ring	9	Dust Proof Netting	14	Power Lamp	19	Lighting Lamp
5	Fan / Blower	10	Netting Cover	15	Ion Lamp	20	Front Cover

PACKING LIST

- BFN-702⁺ Overhead Ionizer
- Warranty Card
- Power Cable
- User Manual
- Calibration Certificate

SAFETY

BFN-702⁺ is reliable and has safe circuit design, excellent grounding distribution, has a micro-switch installed at the position of detachable covers to prevent accident by automatic power cut-off when covers fall-off.

- 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

- Alarm or non-alarm function available (Option)
- Thin, light, convenient and practical
- With large ion output that can eliminate static voltage quickly
- Adjustable air speed of the fans, and with an ion lamp
- Detachable front and back cover for easy and convenient cleaning and maintenance
- With safety toggle switch for security protection

INSTALLATION AND APPLICATION

Put BFN-702⁺ on table or fix the bracket by M6 bolts on proper plane (pendant chains can be used), make sure of the effective distance is between 300mm – 1200mm, 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-702⁺ at a distance between 300mm to 1000mm for better ionization effect.

OPERATION GUIDE

TURN ON THE BLOWERS

- When the ion blower is installed and fixed, please check and connect the power cords and turn the power switch 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

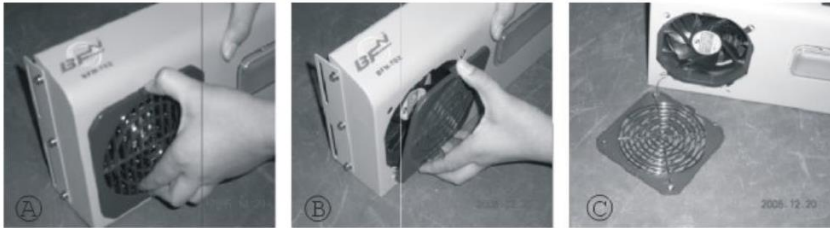
Cleaning and checking periodically (using CPM) to make sure BFN-702⁺ is working properly.

■ Cleaning

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.

The unique design makes the cleaning easy and convenient for inner parts.

1. Take off the front cover



A. Press the button on the top front cover downward and separate it from the metal crust.

B. Pull the front cover upwards lightly, make it separate from the metal crust completely.



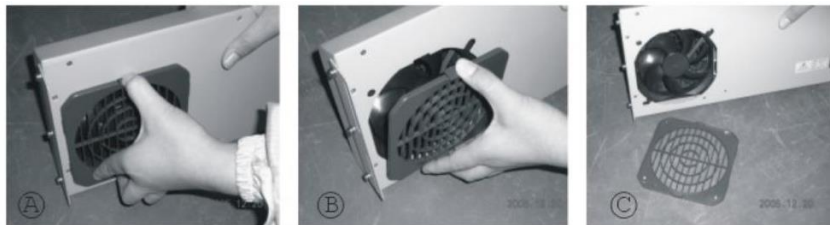
Attention: There are orientating forelock and corresponding apertures between the front cover and metal crust body, please be careful in pulling out the front cover.

C. Make the front cover completely separates from the BFN-702⁺



Attention: There is a flexible cord which connects the metal induction netting of the front cover with the ionizer's inner crust, please do not break it.

2. Take off the back cover



A. Press the button on the top back cover downward and separate it from the metal crust.

B. Pull the back cover upwards lightly, make it separate from the metal crust completely.



Attention: There are orientating forelock and corresponding apertures between back cover and metal crust body, please be careful in pulling out the back cover.

C. Make the back cover completely separates from the BFN-702⁺

3. Now 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.

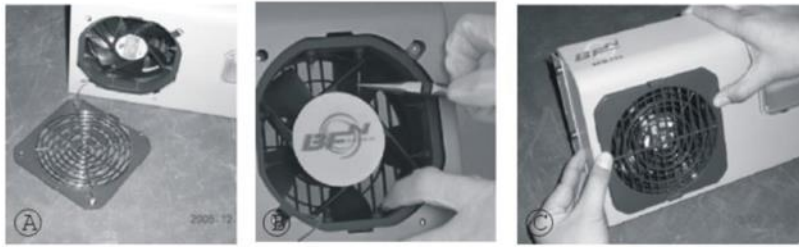
4. Install the front and back cover after cleaning.



Attention: To avoid damage, please be careful when installing the covers. There are pressed blocks protecting safety loop under the covers which pushes the jiggle switch. The ionizer will not work properly if jiggle switch is not pressed by the block pin.

■ Ion Pin Replacement

It is quite easy to replace ion pin needle of BFN-7 blower series due to its unique insert-extract ion needle design.



- A. Take off the front cover.
- B. Extracxt the ion-needle by sharp tip tweezers, and insert a new ion pin.
- C. Install the fron cover according to the procedure.

CALIBRATION

BFN-702⁺ have stable performance, but the parameters may change according to the affection of voltage, operating temperature, and humidity.

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-702⁺ 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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