



OPERATING INSTRUCTION MANUAL

BFN-HFG10 AIR-GUN IONIZER

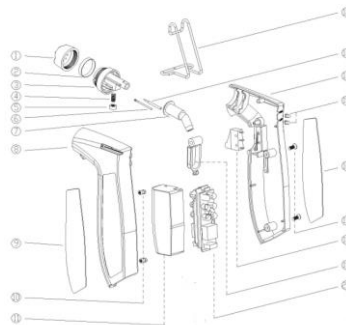
PRODUCT INTRODUCTION

BFN-HFG10 Air-gun type ionizer is a handheld static elimination ionizer which is easy and safe to use. It is used to eliminate charges from high static charge materials and can be used to clean dust particles. It is widely applied on high level cleanroom industries such as precision electronic production, electronic device assembly site, biological and pharmaceutical manufacturers.

SPECIFICATION

Power Supply	AC220V/50Hz AC110V/60Hz	Working Condition	0°C ~ 50°C (Temp) 20% ~ 85% (Humidity)
Working Distance	100 ~ 800mm	Air Pressure	≤ 0.6 MPa
Decay Time	≤ 1.0 sec	Dimension (mm)	210 x 87 x 26.5 (Air-gun)
Ion Balance	≤ ± 35V		166 x 84 x 35.5 (Adaptor)

STRUCTURE



No	Part Description	No	Part Description	No	Part Description	No	Part Description
1	Gun Head	6	Thimble	11	PCB Set Box	16	Right body Plaster
2	Discharge ring	7	Head Connector	12	Hanger	17	Body Set Nut
3	Gun Head Base	8	Left body Cover	13	Ion Pin	18	Micro-switch
4	Set Screw	9	Left body Plaster	14	Right Body Cover	19	Trigger
5	Hold-down nut	10	Body Set Nut	15	LED Light	20	Control PCB

ADVANTAGES

- Fashion appearance, ergonomic design, easy to use to achieve high working efficiency.
- Built-in piezoelectric transformer, no exposed high voltage cable to ensure safety usage.
- Perfect decay time and ion balance performance, alarm function is available.
- Special tungsten emitter ion pin, long lasting, abrasion resisting, and easy to clean.
- Optional high efficiency filter which can be installed and used in cleanroom process.
- Optional air volume controller which controls the compressed air volume released to the air-gun.

DEVICE INSTALLATION

1. Air Pressure / Compressed Air

Check the air-pressure supply.

Be sure that the air-pressure is less than 0.6MPa

Be noted that exceeding the required air-pressure can cause damage to the device due to its special design and structure requirements.

Connect the air-pressure supply to the air-input of the device at the power adaptor.

2. Power Adaptor

Make sure to fix the location of the power adaptor to prevent from dropping or damaging.

Keep away from humid, corrosive, flammable, dusty environment, and do not allow any water or moist to enter into the power adaptor and into the air-gun body.

The incoming compressed air-pressure must be clean and dry.

3. Working Distance

The best distance to use the ionizer is from 100mm~800mm away from the air outlet (Air-gun head).

The air-gun is not suitable to be used on long time process procedure or continuous air-flow condition.

4. Air Filter (Optional)

Install the air-filter to the power adaptor to insure that the air-output is clean and the ionized air meets the cleanroom requirement.

Reminder: Air-filters have single way air through direction in which must be followed to achieve the filter's efficiency.



5. Air Volume Controller (Optional)

Install the air volume controller prior to the power adaptor to control the compressed air volume release to the equipment.

OPERATING GUIDE

1. Power On

First, connect the air-jacket tubing of the device to the power adaptor and then connect the air-input tubing to the rear of the power adaptor.

Turn-on the power adaptor and test the air-gun.

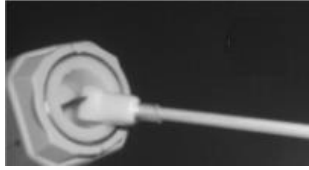
Upon pulling the trigger of the air-gun, green LED indicator lights up and ion air comes out from the air-gun head.

2. Test Verification

Aim the air-gun head at the metal plate of the CPM (Check the performance based on the required distance of the process). Check the decay time and ion balance based on the $\pm 1000V$ static charge application on the CPM metal plate with the recommended distance from 100mm~800mm.

3. Emitter Point Cleaning Procedure

BFN-HFG10 does not generate particle itself, it is completely suitable to be used in any cleanroom class. Dust particles, moisture, and oil from compressed air can affect the performance of the air-gun, periodic cleaning of emitter point is necessary to insure the air-gun is working properly.



PACKING LIST

- BFN-HFG10 Air-gun Ionizer: 1 set
- Power Adaptor and Cable: 1 set
- Operating Manual (this manual): 1 copy
- Warranty Card: 1 piece
- Calibration Certificate: 1 copy
- Air Filter: (Optional)
- Air Volume Controller: (Optional)

ATTENTION

- When device set-up, please do make sure incoming compressed air-pressure must be clean and dry.
- Be sure that the air-pressure is less than 0.6MPa.
- It is recommended to conduct a periodic verification for the BFN-HFG10.
- Stop using when the RED LED light is on. Check the ionizer whether it works properly and sends it back to manufacturer if needed.

MAINTENANCE

If it does not work normally due to wrong operations and other reasons, please do notify the supplier immediately. Prohibit to personally taking it apart or making self-maintenance.

Operating manual is only for BFN-HFG10 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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