



TRANSFORMING TECHNOLOGIES, LLC
OUTSTANDING ALTERNATIVES IN STATIC CONTROL

BFN™ Static Eliminators

BFN 801 Ionizing Blowers



Instruction Manual

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Description

BFN® Series Ionizers

Dependable, Balanced and Fast. BFN® AC ionizers, from Transforming Technologies, are built to last. Reliable AC ionization technology is combined with superior mechanical design to assure years of optimal static neutralizing performance.

- A full 1 year warranty.
- CE certification.
- All BFN® AC ionizers use titanium alloy emitter points for long life.

All BFN series AC ionizing blowers are designed for safe operation under normal use. Safety switches under the front and rear removable finger guards shut off the unit, protecting the operator during maintenance.

- Do not operate BFN series products in flammable or explosive environments.
- Do not insert foreign objects into the air inlet or outlet.
- Make certain the BFN ionizer is properly grounded before operation.
- Disconnect the BFN ionizer from any power source before removing the finger guards.
- Do not open or attempt to repair any BFN series product. Breaking the manufacturing seal will void warranty.

BFN 801: Bench top Blower Model

The BFN 801 bench top ionizing blower, with inherently stable AC technology, provides excellent balance and rapid charge decay for secure workstation protection. Designed to protect most sensitive electronic devices, the BFN 801 uses corona ionizing technology to continuously produce a balanced output of positive and negative air ions.

Features

- Stable AC ionization output
- Integrated emitter cleaning device
- Variable fan speed control
- Removable finger guards with auto shut-off sensor

Product Specifications

Power Input

120 V AC, 60 Hz., 36W
220 V AC, 50Hz.

Dimensions

7.0" W x 10.25" H x 3.75" D
(17.8W x 26.0H x 9.5D cm)

Weight

8.25 lb (3.75 kg)

Air Volume

50 CFM – 100 CFM (low— high)

RH Operating Range

20-60%, non-condensing

Audible Noise

44dB(A) (Distance 1 meter)

Enclosure

Steel

Finish

Powder coat, off white

Approvals

CE

Effective Coverage

1'x5' area coverage

Balance

0 \pm 10 volts

Decay Time

< 2 seconds @12", 1000V-
100V, fan speed on high

Temperature

32-122° F (0-50° C)

Indicators

ON/OFF status light indicator,
detects presence of HV on emitter points

Packing list:

- BFN 801 ionizing blower
- Power cord
- Instruction manual
- Certificate of Conformance

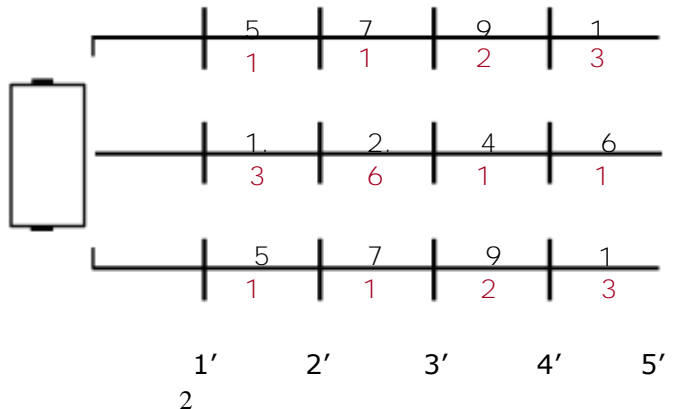
BFN 801 Charge Decay Efficiency

(Discharge Time)

Tested in accord with
ANSI/ESD STM3.1-2006

Black: Hi Fan Speed
Red: Low Fan Speed

Discharge times determined as per EOS/ESD Standard No.3 using **6" x6" 20 pF** charge plate monitor. Discharge times are in seconds from 1000V to 100 V, Discharge times are slightly longer for 230V, 50 Hz



Operating guide

1. Power Connection

Properly locate and install the ionizer into the proper position and connect the power cord. Rotate the on/off, fan speed knob clockwise to turn on the unit. Continue rotating the knob to achieve the desired fan speed.

3. Periodic Maintenance

Note: Do not insert any object into the air inlet or outlet.

Note: Unit must be properly grounded before operating.

2. Bracket Adjustment

To adjust the angle of operation of the BFN 801 ionizer, loosen the mounting knobs that secures the bracket and loosen the left gear completely. Now adjust the unit to the required angle and re-tighten the knobs.

Note: Failure to loosen the bracket knobs sufficiently may result in damage to the bracket mounting system.

The only maintenance required for BFN series ionizers is the periodic cleaning of the emitter points, inlet and outlet finger guards and the fan assembly. Emitter point cleaning affects the static decay ability of the ionizer and is important for maintaining its optimal performance.

Emitter point cleaning: All BFN series ionizing blowers include an integrated emitter point cleaning brush on the inlet fan guards. Turn the emitter point cleaners clockwise, then counter clockwise several times, until points are clean. When finished, return the point cleaning brush to its resting position.

Internal fan cleaning: All BFN series ionizing blowers offer convenient cleaning of the internal fan assembly. Use the following procedure to maintain cleanliness.

Note: Always disconnect the ionizer from the power source prior to internal cleaning.

Air outlet disassembly

- A. Press the button on the bottom of the plastic front cover upwards and make the lower portion of the fan guard separate from the metal housing.
- B. Lightly pull the front cover downwards until it separates from the blower.
- C. Completely remove cover and set aside.



Air Inlet Disassembly

- A. Press the recessed release point on the bottom of the plastic rear cover using a flat blade screwdriver.
- B. Gently push the cover upwards.
- C. Lift the rear cover up and away from the metal casing.



After removing both front and rear fan guards, the emitter points and fan assembly will be unobstructed, for easy deep cleaning. Use a soft brush, Isopropyl Alcohol and compressed air to remove any foreign matter.

Note: The frequency of cleaning required for optimal performance from BFN ionizers depends on the environment in which the BFN series ionizer operates.

When finished cleaning, replace both front and rear fan guards.

Air Outlet Assembly

- A. Slide the slot on the upper back side of the front fan guard onto the metal case.
- B. Push upward from the bottom of the front fan and gently press into the metal casing, until attached.
- C. Press the sides of the cover in to make sure cover is securely attached.



Air Inlet Assembly



- A. Line up the clips on the rear fan guard with the slots on the BFN fan housing.
- B. Push the rear fan guard into the corresponding slots.
- C. Slide the two sides of the rear fan guard down.
- D. Lightly pull the very bottom of the rear fan guard downward with your thumb to lock it securely.

Caution: BFN series products have safety relay switches where the front and rear fan guards attach to the unit. These relays disable the fan/ionizer operation when either fan guard is removed. Take care when attaching the fan guards to assure proper functioning of the product.

Periodic Verification:

BFN ionizer have no user serviceable parts and the technology requires no calibration because of the inherently stable ionization output from the AC emission. Periodic verification is recommended, per ANSI/ESD SP3.3-2006 Periodic Verification of Air Ionizers. Verification frequency may be set by the individual user, but is recommended to be not less than one time per year.

Service and Warranty

Transforming Technologies, LLC provides a limited warranty for the BFN Series Ionizers. All new products are guaranteed to be free from defects in material and workmanship for a period of one (1) year from the date of shipment. Liability is limited to servicing (after evaluating, repairing or replacing) any product returned to Transforming Technologies. The company does not warrant damage due to misuse, neglect, alteration or accident. In no event shall Transforming Technologies be liable for collateral or consequential damages.

To receive service under warranty, please contact Transforming Technologies Technical Support.

About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.

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