



TRANSFORMING TECHNOLOGIES
OUTSTANDING ALTERNATIVES IN STATIC CONTROL



IONIZING AIR BLOWER

Model IN3000



Instruction Manual

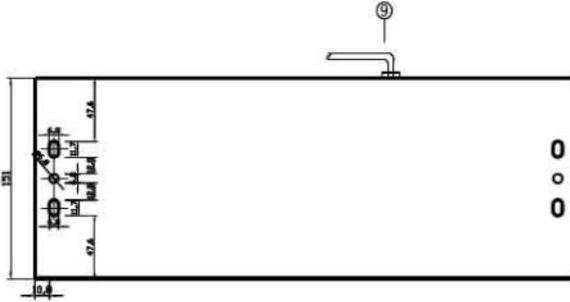
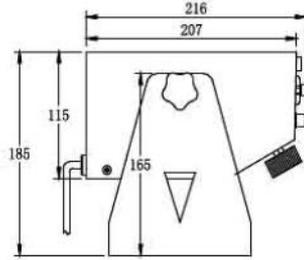
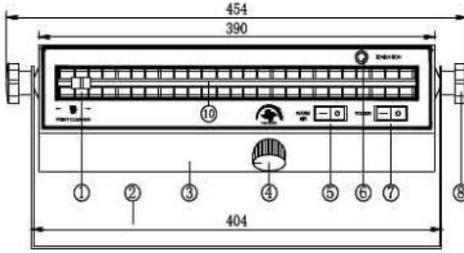
CrossFLOW Ionizing Air Blower

The CrossFLOW ionizing blower produces a powerful air flow, rich in positive and negative ions that quickly neutralize static charges. The CrossFLOW uses inherently balanced AC technology that provides a stable output with exceptionally fast decay performance. The CrossFLOW features built-in emitter point cleaners and a heater that can be turned on at any time for user comfort.

- Rapidly neutralizes static charges
- Covers an extended area with ionized air
- Inherently balanced ion output
- Stepless fan speed adjustment for a wide range of air flow
- Heater for operator comfort
- Bench stand allows for angled output
- Built-in ion emitter cleaner
- Ionization indicator lamp.

CrossFLOW™ IN3000 Specifications

Power Input	AC 100V~240V, 50/60Hz
Power	50W/250W (heating)
Ion Emission	AC, 68KHz
Balance	±10 volts
Decay Time	1000V—100V, < 2 seconds @12"
Temperature	32-122°F (0-50°C)
Ozone Thickness	≤0.03ppm (6" from air outlet)
Air Volume	70—120 CFM
Noise	≤50-55db (6" from air outlet)
Controls	On/off switch
Mounting	Mounting holes on base
Emitter Points	Tungsten Alloy
Dimensions	17.8"x8.5"x7.25"
Weight	18lbs (8.2Kg)
Warranty	1-year limited warranty



Explanatory chart

- 1. Electrode cleaning device
- 2. Installation bracket
- 3. Main body
- 4. Air volume adjusting knob
- 5. Heat Wind Switch
- 6. Working indication
- 7. Power switch
- 8. Screw Handle
- 9. Power cord
- 10. Ion emitting port

Safety

Read all instructions before proceeding with installation or operation. Failure to follow instructions may result in damage to the ionizer and/or personal injury.

Keep the unit dry. Do not operate the ionizer in a flammable, volatile or explosive atmosphere.

Do not insert objects through the unit's intake or outlet grilles. Damage to the ionizer and/or personal injury may result.

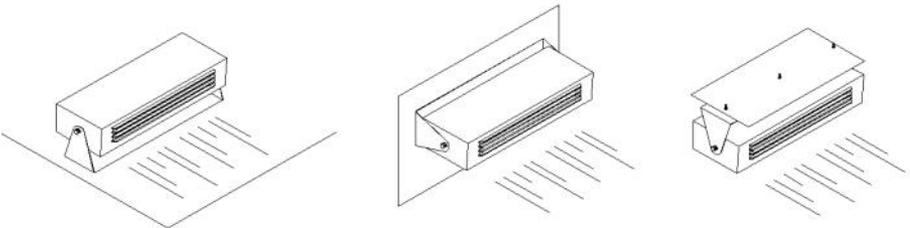
Please contact Transforming Technologies Customer Service for repair information.

Installation

Carefully remove the equipment from the carton and inspect contents. If any damage has occurred during shipment, notify the local carrier at once. A report should also be forwarded Transforming Technologies at 419-841-9552.

The CrossFLOW is designed for portable or permanent operation. The bench stand can be used for portable operation or bolted to a sturdy flat surface such as a wall or under a shelf. If the bench stand is bolted in place, use 5/16-inch diameter screws or bolts (not included) to secure it.

The CrossFLOW should be placed approximately 1 to 3 feet from the critical work area or objects to be neutralized. It should be positioned to cover as much of the area as possible with the ionized air stream. The air stream can be directed upward or downward by tilting the unit on the stand. Tightening the lock knobs on each side of the unit secure it in position.



Operation

Activate the IN3000 by setting the POWER switch to the ON position. The ionization indicator will illuminate to indicate the presence of ionized air. Set the air flow as desired by adjusting the FAN SPEED from low (left) to high (right). If warm air is desired for operator comfort, set the HEATER switch to the ON position.



Speed of Neutralization

The time required to neutralize a static charge on an item in this area depends on two important factors: distance to the ionizer and air velocity.

Air ions constantly recombine and "neutralize" each other. With high air velocity, the ions travel further before they recombine. Setting the fan speed to high results in coverage for the greatest possible area.

Decreasing the distance from the target to the ionizer results in more rapid neutralization. For fast neutralizing, the item should be held within 1 to 3 feet from the CrossFLOW. For virtually instantaneous neutralizing, the item may be held as close as 6 inches.



Maintenance

The CrossFLOW has been designed with low maintenance in mind. The only regular maintenance suggested is emitter point and vent cleaning.

To clean the ion emitters, simply sweep the emitter cleaner back and forth once across the ionized air outlet. Recommended frequency of cleaning is once a week.



Air Inlet and Outlet Cleaning

The air inlet grille on the rear of the unit and the ionized air outlet should remain clean to prevent restriction of air flow. They can be cleaned with a soft brush or vacuum.

Calibration

The CrossFLOW's ion output is inherently balanced by design, so there are no calibration adjustments. 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.

Equipment needed is a Charge Plate Monitor such as Transforming Technologies 287A or 288B. Test the ionizer's ion output and balance according to the Charge Plate's instructions.

Ion Output Check: Discharge times should be 2 seconds (1000v-100v) at 12".

Ion Balance Check: Offset voltage should be measured and be within ± 10 volts.



287A -Charge Plate



288B - Charge Plate

Service and Warranty

Transforming Technologies, LLC provides a limited warranty for the IN3000 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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