

Installation / Operation / Maintenance

Ionmaster® Ionizing Fan (with heater)

Model 6214

Overview

The Ionmaster® Ionizing Fan M/N:6214 generates AC high voltage, producing balanced ionized airflow to eliminate static charges on target work surfaces. The unit can be placed at one end of the workbench, or mounted on the wall or shelf, and directed at the target or area to be neutralized. The ionizer is designed to neutralize charge on a target located one to four feet in front of the unit. Discharge time increases with distance from the unit.

General Guidelines

- Keep water, oil, contamination and any fluids away from the blower at all times
- Keep the unit clean internally and externally for optimal performance

Caution! Disconnect the unit from power before performing any maintenance, inspection or cleaning to avoid an electrical shock hazard and to prevent damage to the unit!

Contents

Remove the ionizer from the carton and inspect for damage. Included with the unit should be:

- One (1) Ionmaster® Ionizing Fan with stand and adjustment knobs installed
- One (1) Detachable NEMA/IEC power cord (120V)
- One (1) Round foam air filter with one (1) snap-on retainer
- This IOM (installation, operation, maintenance) instructions manual



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Installation

1. Locate the Ionmaster® M/N:6214:
 - 12” to 48” from the target to be neutralized for optimal performance, making sure that the airflow will not be restricted.
 - A working electrical outlet within reach of the 6’ long detachable cord that is supplied with the Ionmaster® M/N:6214.
2. The Ionmaster® M/N:6214 can be installed in two different ways:
 - Placed or secured on a flat surface such as a bench top. The unit comes with a stand so that it can be positioned on the work surface, aimed at the target and adjusted for inclination and locked in place with the lock knobs.
 - It can also be wall or shelf mounted to keep valuable bench space free for other purposes and equipment.
3. Connect the barrel plug of the AC adapter to the receptacle in the back of the Ionmaster® M/N:6214.
4. Connect the AC adapter to a 120 VAC, 60 Hz electrical outlet which is properly grounded. Ensure the unit Power Switch is in the off position before plugging in.

Important Note: Before powering up the ionizer, verify that the AC outlet is properly grounded and that the supplied line voltage matches the electrical specifications on the rear panel of the unit. Plugging the ionizer into an outlet with the incorrect voltage may damage the unit and will void any warranty coverage.

Operation

1. To turn the ionizer ON press the red POWER switch, located on the lower right front panel of the unit. The POWER switch will illuminate when the ionizer is running.
2. To change the ionizer speed, use the FAN switch to select HI or LOW fan speed located next to the POWER switch.
3. Adjust the ionizer to direct the airflow into the work area.
4. If heating is desired for operator comfort this can be turned on by turning the HEATER switch to the ON position. Heater can be used in HI or LOW fan speed.

Maintenance

There are no user serviceable parts INSIDE this ionizer. DO NOT remove front panel, or back chrome finger guard.

Under normal operating conditions the ionizer will attract dirt and dust, especially on the emitter pins, and filter. To maintain optimum neutralization efficiency and operation, cleaning should be performed on a regular basis.

Emitter Point Cleaning:

1. To clean the emitter points rotate the cleaning brush clockwise and allow spring to return brush counter-clockwise. Knob is located on the front of the ionizer and labeled Point Cleaner.
2. Repeat step 1 several times for sufficient cleaning of emitter points.

Filter Cleaning:

1. If foam filter on back of ionizer becomes dirty, carefully unsnap white plastic retainer ring holding the foam in place.
2. Clean foam filter with soap and water. Allow filter to dry completely before re-installing.
3. Push filter into white plastic retainer ring and snap onto chrome finger guard...be sure to line up cutouts and push until it snaps in place.

Fuse Replacement:

1. In the event that the power input fuse blows and needs replacing. **UNPLUG THE UNIT PRIOR TO REPLACING FUSE**
2. Remove the power cable from the back of the ionizer
3. Using a small screwdriver pry open the fuse drawer located below the power cable input jack. Carefully remove the fuse drawer and fuse replace with
Fuse type: GMA 5A 250V
(20mm length x 5mm diameter)
4. Re-install fuse drawer and snap fuse into place. Check ionizer for proper operation.



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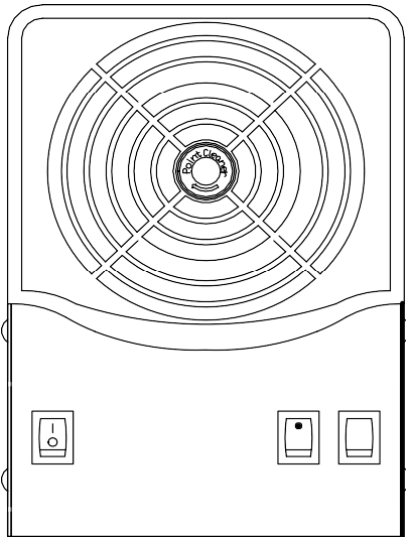
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Specifications:



- **Input Voltage, Frequency:** 120Vac, 60Hz
- **Input Current:** 1.9A (heater ON, fan HIGH)
1.8A (heater ON, fan LOW)
0.3A (heater OFF, fan HIGH)
0.2A (heater OFF, fan LOW)
- **Air Velocity**
(on fan-center axis): 600 FPM (fan HIGH, 1ft.)
420 FPM (fan LOW, 1ft.)
- **Air Delivery Rate:** 76 CFM (fan HIGH)
52 CFM (fan LOW)
- **Ionization Balance:** $\pm 10V$ typical
- **Ionization Emitter:** Radial configuration, 10 stainless steel emitter points with fine-ground terminal radius.
- **Heated Air:** 15°F rise above ambient (fan LOW, 6in)
8°F rise above ambient (fan HIGH, 12in)

- **Input Fuse:** 5A slow-blow (fuse holder in AC inlet)
- **Chassis:** Steel enclosure, powder coated epoxy/polyester paint finish
- **Air Filter:** Open-cell polyurethane foam (30 pores per in)
- **Ozone:** 0/01ppm (fan LOW, 6in)
- **Audible Noise:** 54dBA SPL (fan LOW, 1ft)
61dBA SPL (fan HIGH, 1 ft)
- **Weight:** 7.1 pounds (without power cord)
- **Dimensions**
(with stand, tilt lock knobs): 9in (height)
7.5in (width)
5.25 in (depth)
- **Mounting:** Benchtop tilt-adjust stand with locking knobs, black polymer feet; can also be wall-mounted or shelf-mounted using slots in stand and 2 screws (1/4 in thread diam.)



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Trouble Shooting Guide

Symptom	Probable Cause	Corrective Action
1. Static charges are not eliminated.	-Dirty emitter pins.	Clean emitter pins using rotating brush.
2. Fan inoperative	-Loss of power to outlet or ionizer. -Blown input fuse	-Check electrical connections (cord into ionizer), and outlet power (120VAC). -Check input fuse and replace if necessary.

Limited Warranty

NRD expressly warrants that for a period of one (1) year from the time of purchase, the ionizer will be free of defects in material (parts) and workmanship (labor). Within the warranty period, the ionizer will be tested, repaired, or replaced at discretion of NRD, free of charge. Any ionizer under warranty should be shipped prepaid to the NRD factory. Call Customer Service at (716) 773-7634 for a Return Authorization Number and shipping instructions. Include a copy of your original packing slip, invoice, or other proof of purchase date.

If the ionizer is out of warranty, NRD LLC will quote repair charges necessary to bring your ionizer up to factory standards.

Warranty Exclusions

The forgoing express warranty is made in lieu of all other product warranties, expressed and implied, including merchantability and fitness for a particular purpose that is specifically disclaimed. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

The user shall determine the suitability of the product for their intended use, and the user assumes all risk and liability whatsoever in connection therein.



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