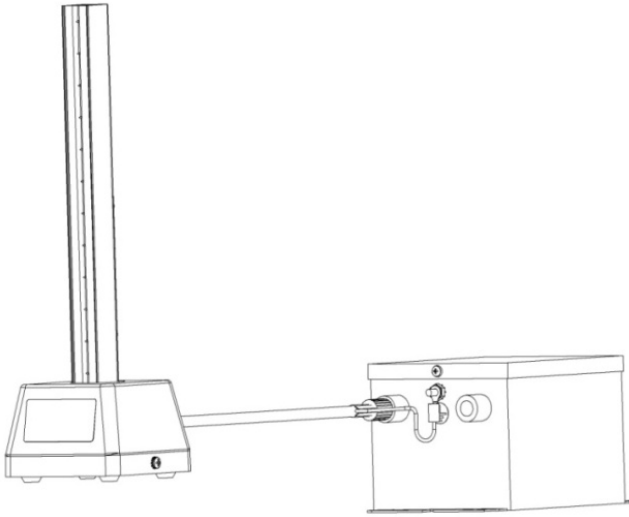


Installation / Operation / Maintenance

Ionmaster® I - Beam

Model 6105 Stand Ionizer Kit and 6106 I-Beam

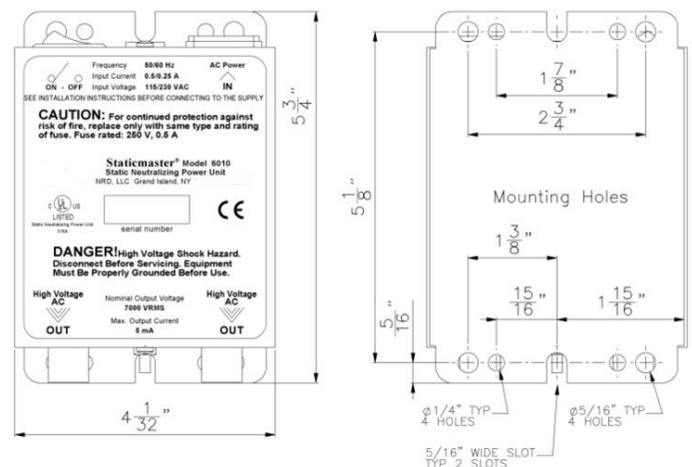


General Guidelines

- Keep water, oil, grease, and other contamination away from static bar and power supply at all times.
 - Clean the ionizing points routinely as needed for optimum performance.
CAUTION: Turn power off before performing any maintenance, removal, or repositioning of any static neutralizing equipment or power supplies.
 - Position the remote Power Supply as close as possible to the static bar.
 - Make sure the static bar metal (aluminum) casing and the power supply are well “grounded”.
 - Metal parts in proximity to static bars tend to reduce their effectiveness. Whenever possible, allow two inches of free space all around the static bar and behind the material to be neutralized.
1. Locate the I-Beam static bar.
 - Next to the analytical balance so that the material will pass by immediately before being weighed.
 - So that the material to be neutralized can pass within 1 to 6 inches of the I-Beam static bar.
 2. Locate the Power Supply.
 - Choose a location free of oil, water and gross contamination.
 - Avoid areas where ambient temperature is continuously in excess of 120°F.
 - The Power Supply can be placed on table top or mounted so that the High Voltage Output Ports are facing down or to either side to prevent entry of foreign material.
 - Each I-Beam static bar is equipped with a standard 72 inch length of high voltage cable inside a metal braid shield. This length of cable allows the installation of two I-Beam static bars approximately 10 feet apart connected to one, centrally located power supply. If the high voltage cable is too long, you may coil it and secure it neatly out of harm’s way. Because the cable is shielded, there will be no adverse effects such as excessive flux fields or noise that can result from unshielded cable.
 3. After the ionizing device and Power Unit have been properly installed, positioned and **grounded**, plug the Power Unit line cord into a properly grounded 3-wire AC electrical outlet. Be sure that the Model 6010 voltage selector switch is set to match the line voltage and frequency supplied. **Do not** remove the ground prong from the line plug or use a three to two prong adapter.
 4. Push the switch, on Power Supply, to the “on” position.

Installation

1. Locate the I-Beam static bar.
 - Next to the analytical balance so that the material will pass by immediately before being weighed.
 - So that the material to be neutralized can pass within 1 to 6 inches of the I-Beam static bar.



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Remember:

- The metal case of the static bars and the power supply must be electrically grounded!
- Do not attach ground wire to hot water, steam, or gas pipes.
- Do not remove ground stud from power supply or ground post from power supply line cord.
- Always plug the line cord into a properly grounded receptacle, or if wiring direct without the plug, be certain to properly and securely connect the ground wire.

Operation

After the static bar has been installed, it needs little attention during operation. Because the ionizing points are capacitively coupled to the high voltage cable, the I-Beam static bar is categorized as “shockless”. This means there is so little energy at the points an operator would scarcely feel a tingle if he or she accidentally touched them when powered. However, use caution whenever handling static bars since the ionizing points are sharp and can cause pinpricks or scratches if mishandled.

Routine Service

The 6106 static bar and the 6010 power supply are designed to be durable, dependable, and trouble free. They require a minimal amount of maintenance. Each application and each environment, in which static control equipment is installed, is different making it difficult to state accurately how often cleaning is required.

After a period of use, a small sphere of dust will accumulate on the ionizer points. Do not allow this accumulation to continue indefinitely. Although they may continue to perform satisfactorily when they are dirty, gross contamination will degrade their efficiency.

Clean the ionizer points periodically with a stiff bristle brush (such as a toothbrush). A few quick swipes across the points along the length of the bar are usually sufficient.

Note: Do not use a brush with metal bristles since they may damage the points; scratch the plastic holding the points, and / or shed bristles, which may ultimately lead to a short circuit condition.

You may also use a compressed air blow off gun or nozzle to blow out loose dirt from the static bars. Use caution and proper eye protection when doing so.

CAUTION: Be sure power to the static control equipment is off before cleaning any part of it.

Trouble Shooting

The static control system is designed to neutralize static electricity on non-conductive materials by creating a field of positive and negative ions. When the electrostatically charged material passes through the ionized field it will attract ions of the polarity required to become “neutralized”. If static electricity is the cause of a process problem, most of the time, the problem can be controlled, if not alleviated, with the proper application and use of this type of equipment. If you find that the system you have chosen does not significantly reduce or eliminate the problem after it has been properly installed, proceed with the following checklist.

- With power off, check to see that the high voltage cable connector is properly assembled and connected.
- Does the power supplied match that specified on the nameplate?
- Are the static bars and power supply adequately grounded?
- Are the static bars too close or far from the material to be neutralized?
- Are the static bars surrounded by metal or “shorting out”?
- Is there “free air” surrounding the static bars and below the material as indicated in the illustration above?
- Has the high voltage cable been cut or otherwise damaged?



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Device disposal



The I-Beam static bar should not be placed in household waste bins. Please check local regulations for information about the disposal of electronic products in your area.

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.

Specifications:

Mass: 20,0 oz. (567 g)

Temperature: Maximum: 122°F (50°C)



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