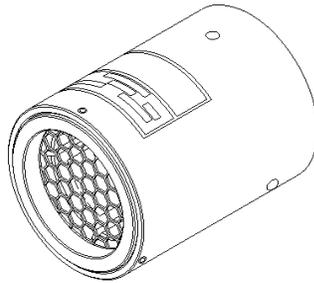


Installation / Operation / Maintenance

Nuclecel® Ion Air Source Model P-2035



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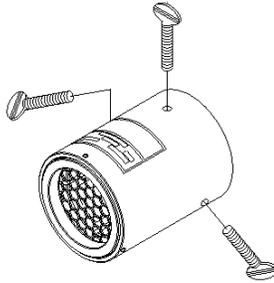
1.0 P-2035 Ionizer



The P-2035 Ionizer neutralizes static charges, and can remove dust and other foreign particulate by providing an abundant flow of ionized air to a work area.

1.1 Installation & Operation

- A. Engage the three thumbscrews into the threaded holes in the cell.



- B. Provide a flex hose or pipe connected to an air source that will fit the 2.32” (5.9cm) inside diameter of the cell.
- C. Insert the flex hose or pipe into the cell and secure it in place by tightening the three thumbscrews.
- D. Point the cell to the work area and secure it into position. To ensure maximum static removal efficiency, the distance between the cell and the work area should be less than five feet.
- E. Apply an air source (e.g. fan or blower) to the cell. Adjust the air flow as desired. A gentle flow will deliver ions to effectively neutralize static charges. A concentrated blast will, in addition, remove dust and other foreign particulate from the work area.



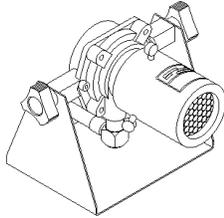
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2.0 Accessories

Accessories such as blowers and air amplifiers are designed to be used with the P-2035 air ionizer to move air or nitrogen through the ionizer. The air becomes ionized and is directed to the charged surface, thereby neutralizing it.

2.1 Air Amplifier Model 4165



Model 4165 Air Amplifier shown with P-2035. A 6' pressure hose is also included (not shown).

Usage

The Air Amplifier provides an adjustable mounting bracket to be used with the P-2035 in conjunction with a source of compressed gas. The amplifier conserves compressor power by “amplifying” the compressed supply by as much as 13 times. This is accomplished by entraining surrounding air through the ionizer, providing very efficient ionization.

Assembly Procedure

- A. Attach the female hose connector to the 1/4” NPT air inlet fitting. Secure the hose using a 3/4” open end wrench.
- B. Place the adapter ring into the recessed end of the Ion Cell. Ensure that the bottom of the ring rests on the inside shoulder of the Ion Cell.
- C. Engage the three thumbscrews into the threaded holes in the cell. Do not tighten the screws.
- D. Orient the air flow amplifier such that the cylinder is horizontal and the air hose connection is below the cylinder.
- E. Insert the cell with adapter ring over the cylinder of the air flow amplifier. Engage it as far as it will go.
- F. Secure the cell to the amplifier by tightening the three thumbscrews.
- G. If the Model 4065 Air Amplifier is used, remove the dust cap from the free end of the air hose. Attach the hose connector to the 1/4” NPT female outlet port of the filter. Secure the hose using a 3/4” open end wrench.

Maintenance

- To ensure maximum static removal efficiency, the cell must be replaced annually *regardless* of usage. The replacement date is 12 months after the date of manufacture.
- Calibration is not required.



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3.0 Trouble Shooting Guide

<u>Symptom</u>	<u>Probable Cause</u>	<u>Corrective Action</u>
1. Static charges are not eliminated	<p>Ion cell may be out of date and need replacement.</p> <p>Possible oil contamination of ion cell.</p> <p>Ions generated are being recombined before they reach the charged surface.</p>	<p>Call NRD for Ion Cell replacement.</p> <p>Return cell to NRD for evaluation. Do not attempt to clean the device.</p> <p>The Ionizer air exit needs to be closer to the charged surface.</p>
2. Air flow is reduced	Upstream filter(s) are plugged and/or gas pressure is low.	Replace upstream filter(s) and/or increase gas pressure (100 psig max).

Limited Warranty

NRD expressly warrants that for a period of one (1) year from the time of purchase, the item will be free of defects in material (parts) and workmanship (labor). Within the warranty period, the item will be tested, repaired, or replaced at discretion of NRD, free of charge. Any item 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 item is out of warranty, NRD, LLC will quote repair charges necessary to bring your item 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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