EXAIR® Corporation
MANUFACTURING INTELLIGENT COMPRESSED AIR® PRODUCTS SINCE 1983
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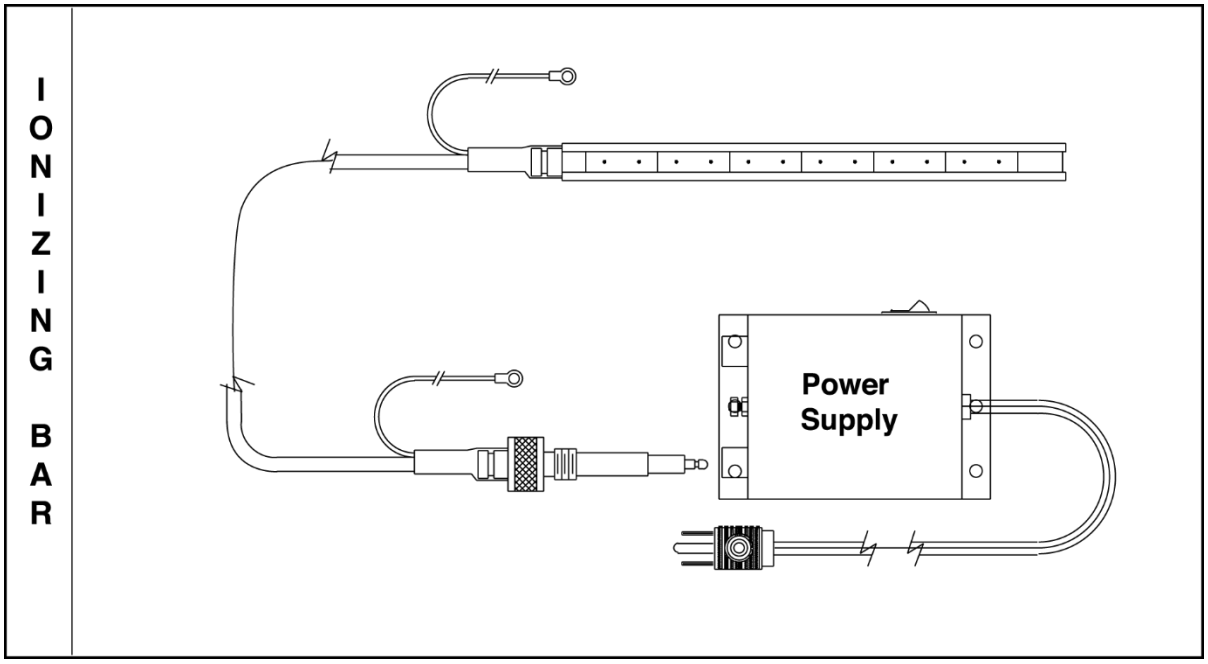
IONIZING BAR INSTALLATION & MAINTENANCE



USING THE IONIZING BAR

The compact Ionizing Bar should be used at a location after the material has received its static charge. This shockless ionizer delivers a high concentration of positive and negative ions for fast static decay within 2" (51mm) of any surface.

Upon installation, the ionizer cable should be isolated from grounded metal surfaces by using non-conductive stand-offs/wire ties by at least 1″ of air gap. Alternatively, the ionizer cable can be shielded in plastic conduit with dielectric strength equivalent to at least 1″ of air (approximately 75kV/inch).

The Ionizing Bar is supplied with a flange that has holes for mounting. For best performance, mount within 2" (51mm) of the charged surface. The metallic surface of the bar must be grounded for the Ionizing Bar to function properly. Attach the green ground wire to the flange of the ionizing bar when mounting it to the machine. On the opposite end of the cable, connect the green ground wire to the power supply. Screw the bayonet connector of the high voltage power cable into the power supply.

The ionizing point is shockless and may be touched without injury.

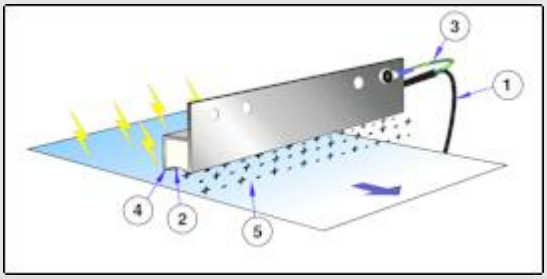
ELECTRICAL SUPPLY

The Model 7901 Power Supply (two outlet) and Model 7940 Power Supply (four outlet) require a 115V, 50/60Hz source. The Model 7907 Power Supply (two outlet) and Model 7941 Power Supply (four outlet) require a 230V, 50/60Hz source. For proper operation, the Ionizing Bar and Power Supply must be properly grounded. If the unit is not grounded, the Ionizing Bar will produce a shock and will not function properly. The ground terminal on the Power Supply must be connected to the grounding wire of the Ionizing Bar.

Electrical Hazard: Shockless (less than 40 microamperes short circuited). **Do not use near flammable materials or gases.**

The Ionizing Bar And Power Supply Should Not Be Used In An Explosive Or Flammable Area.

HOW THE IONIZING BAR WORKS



The shielded power cable (1) carries the 5kVrms power supply output to each capacitively coupled stainless steel emitter point (2) of the Ionizing Bar. A ground wire (3) attached to the bar creates a discharge path from the emitter points to the bar channel (4). The discharge at each emitter charges the molecules of the gases of the surrounding room air, resulting in a shower of ions that are positively and negatively charged (5). If the material surface has a negative charge, it will attract the positive ions from the ionizing bar and become balanced or neutralized. If the material surface has a positive charge, it will attract the negative ions from the ionizing bar to become balanced or neutralized. **The voltage potential at each emitter is high enough to ionize the surrounding air without generating a shock when any of the emitters are touched.**

IONIZING BAR PERFORMANCE

	Distance from Charged Surface		
	0.5" (13mm)	**1.0" (25mm)**	**2.0" (51mm)**
Dissipates 5kV* (seconds)	0.12	0.18	0.24

*Model 7006 6" (152mm) Ionizing Bar tested

EXAIR Ionizing Bar is UL Component Recognized to U.S. and Canadian safety standards.

Power supplies are UL Listed to U.S. and Canadian safety standards. There are no user serviceable parts inside.

Power Supplies meet the requirements of applicable European Directive(s).

CLEANING

The best method to determine how well the Ionizing Bar is working is with the Model 7905 Static Meter. The static meter is easy to use and will accurately display the charge on a surface without touching it. To do this, simply measure the charge on the surface before ionizing (power supply off). Then, ionize the surface (power supply on). Measure the surface again. A "zero" volt reading indicates that the Ionizing Bar is working properly. If a charge is still present, this may indicate the need for cleaning.

Keeping the ionizing bar free of moisture and dirt is very important to its effectiveness and life-span. A simple cleaning operation added to your planned maintenance schedule can eliminate potential performance problems. The frequency of cleaning required will depend upon the environment in which the ionizer is installed. Dirty industrial applications may require daily cleaning while clean-room applications may require only monthly cleaning. It is important to evaluate the cleaning needs of each individual ionizer installation.

A soft bristle brush (a toothbrush works well) should be used to clean the emitter points and channel to remove any particulate. Do not use anything that will bend or dull the emitter points. Do not use any soaps or liquid cleaners that will leave a conductive residue. They can destroy the effectiveness of the ionizing bar.

Never Clean An Ionizer With The Power On!

Periodic cleaning will keep the ionizer operating at peak performance for the life of the unit.

MATERIALS OF CONSTRUCTION:

Ionizing Bar Channel: Aluminum
Plastic Parts: UL rated 94 HB
Emitter: Stainless Steel

There are no user serviceable parts.

If you have any questions or problems, please contact:

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