

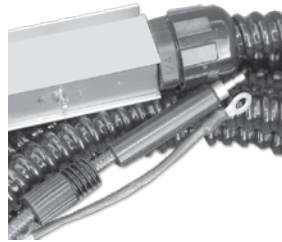
AiRTX Ionizing Bar

The Ionizing Bar is powered by 6000V or 7500V Power Supply for Maximum High Speed Static Elimination

The Ionizing Bar incorporates a unique inductively coupled design, which achieves powerful static neutralization with complete shockproof operation.

Operation

The typical AiRTX Static Elimination installation consists of one or more Ionizing Bars connected to an AiRTX Power Supply unit

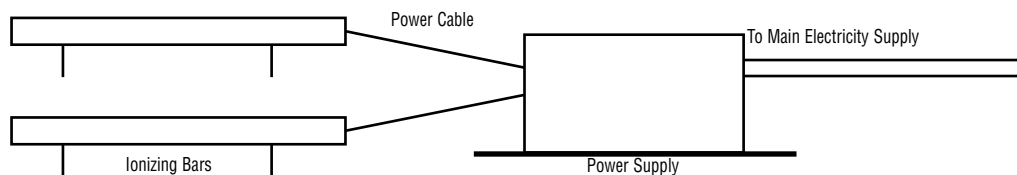


▲ Ionizing Bar Model 55006 with shielded power cord for long life protection and operating Power Light

▲ Ionizing Bar with Power Light, shielded power cord, quick bayonet connect end to Power Supply

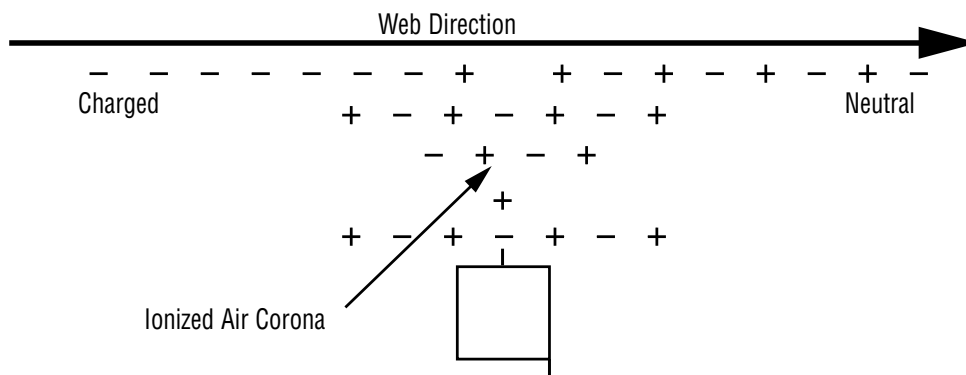
▲ Power Supply (2 Port Unit) Model 50002 (115V) Model 50002-1 (230V)

▲ Power Supply (4 Port Unit) Model 50000 (115V) Model 50000-1 (230V)



The 50002 Power unit converts the primary, (115/230V) electricity supply into a high voltage, (6000V) low amperage output. This output energy is transferred to the AiRTX Bar through the power cable. A capacitive coupling inside the bar reduces the energy to a level which is completely shock-proof but creates a large potential of ions for neutralization.

The Stainless Steel pins in the bar emit this energy (Corona Discharge) in the form of a field of ionized air. This ionized air corona supplies ions of both polarities. Thus it is able to neutralize static charges of positive or negative. When a statically charged object or material passes through this corona, the free moving ions are attracted to the opposite charge on the material. In this way the static electricity is neutralized. The ions are emitted up to 6" from the bar and have a life of approximately 2 seconds before they recombine with themselves or the atmosphere.



Standard Models:*

Model Description

55003	3" Ionizing Bar Only
55006	6" Ionizing Bar Only
55012	12" Ionizing Bar Only
55018	18" Ionizing Bar Only
55024	24" Ionizing Bar Only
55030	30" Ionizing Bar Only
55036	36" Ionizing Bar Only

*Last 2 digits of part number indicate effective length.

All units use Model 50002 as the power source.

Custom lengths available up to 112" (2845 mm)

AiRTX Ionizing Bar Advantages

- Anodized Case
- Heavy-duty shielded power cable for long life and protection
- Quick connect plug-in to power supply
- Stainless Steel emitter points
- Shockless operation
- Static elimination 6" from bar and 20' from ionizing bar using the AiRTX Air Knife
- 6000V of Power means 20% more ions than other suppliers with 5000V power supplies
- Indicator light on Ionizing Bar to show power
- 7500V of Power means 35% more ions than other suppliers with 5000V power supplies

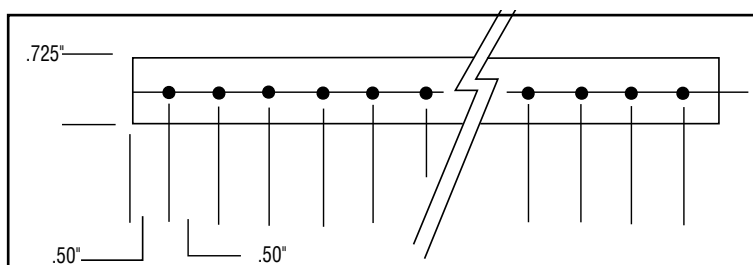
Ionizing Bars 55000 Series

Model#	Effective Length	Overall Bar Length
55003	3" 76 mm	4.5" 114 mm
55006	6." 152 mm	7.5" 191 mm
55012	12" 305 mm	13.5" 343 mm
55018	18" 457 mm	19.5" 495 mm
55024	24" 610 mm	25.5" 648 mm
55030	30" 762 mm	31.5" 800 mm
55036	36" 914 mm	37.5" 953 mm

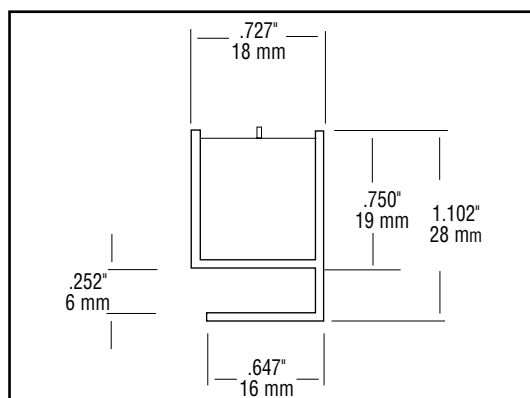
Custom lengths available up to 112" (2845 mm)

Use Them For

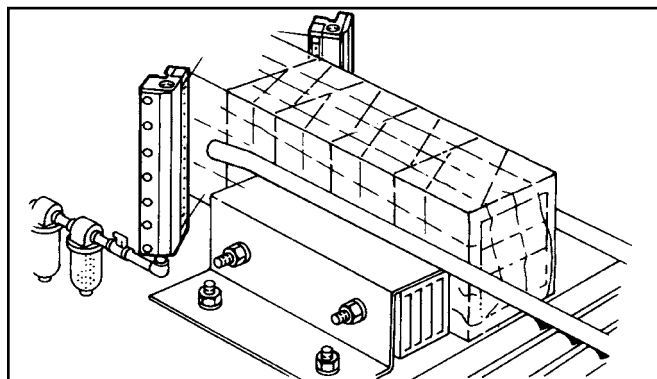
- Pre-paint prep areas
- Sheet feeders, unwinders, stackers, separators
- Lenses, signs, etc.
- Packaging materials
- Pneumatic conveyors
- Injection molded parts
- Cutters and slitters for trim removal
- Heat-set ink dryers, paper and textile drying equipment
- Around guide rods and rollers on any machinery handling web or sheet paper and plastic
- Electronics assembly areas or servicing of boards and components
- Photofinishing operations



▲ Ionizing Bar



▲ Ionizing Bar Model 55000 (end view)



Packaging

Static caused packaging jams and wasted valuable production time until two Model 55412 ionizing Air Curtains were installed in this heat sealing process. Low pressure, ionized air eliminates the static charge and allows greatly increased line speed.

Technical and Construction:

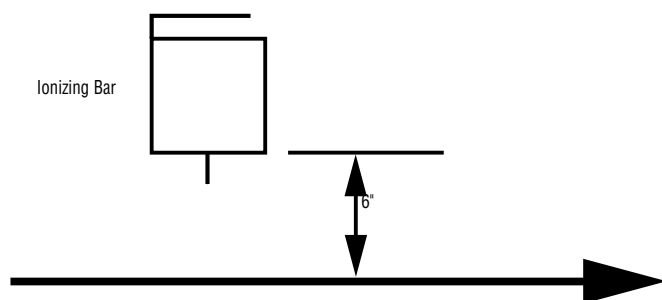
OPERATING VOLTAGE	6000V, 7500V
MAX TEMPERATURE	185°F 85°C
EMI/RFI EMISSIONS	AiRTX cable meets international standards
HOUSING	Anodized Aluminum
WEIGHT	8.8 oz per ft.
OZONE	Considerably below international standards of 0.1 PPM
PIN	Stainless steel pin is inductively coupled. Touching pins will not result in a shock

Correct Positioning is Vital to the Efficient Operation of Static Elimination Bars

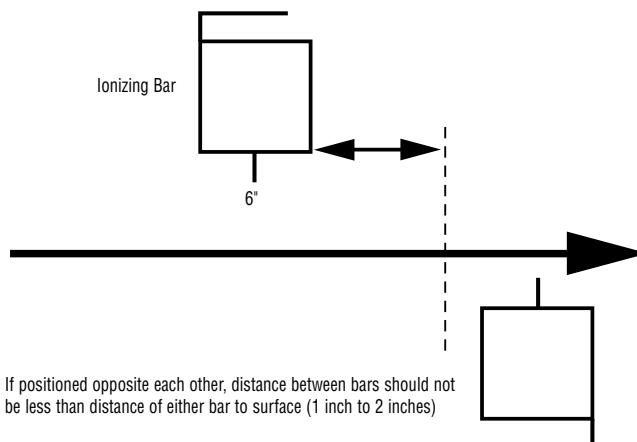
Factors to be considered are:

- 1 Correct positioning relative to the problem, i.e., immediately before problem area, with no intermediary rollers or processes which could regenerate the charge.
- 2 Speed of material — higher speeds require more static elimination.
- 3 Conductivity and density of material. The less conductive or more dense (molecularly) the material, the more stubborn will be the charge.
- 4 Grounding — vitally important to the correct operation of bars. They will not function and will become “live” if not properly grounded.

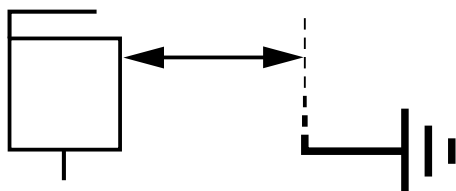
The Following Rules Should Be Observed When Installing AiRTX Ionizing Bars



Optimal Distance from Material to Be Neutralized



Bars Should Be Staggered if Positioned on Opposite Sides of the Material



The bar should not “see” a grounded object. Grounded objects will distort the corona and reduce its efficiency. Distance from grounded object should not be less than distance from surface (1” to 2”)

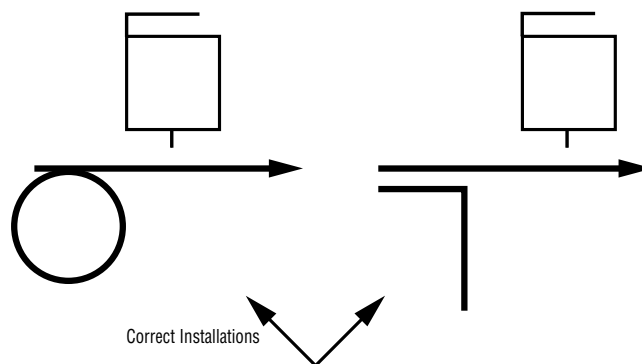
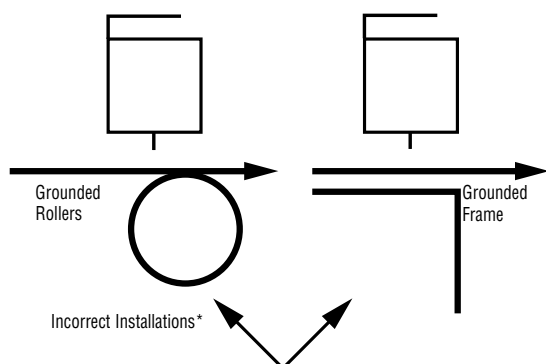
Avoid Proximity to Grounded Parts of the Machine

Maintenance:

The only maintenance required is that the Bar should be cleaned periodically to keep it free from dust and other contaminants. Particulate build-up on the emitter point can result in a “burn-out”.

1. Make certain power unit is turned off.
2. Use a soft brass brush or toothbrush to clean emitter points.
3. A cleaning solvent or blowing off with compressed air, used in conjunction with the brush, is even more effective.

CAUTION: This Equipment Is Not to Be Used in Hazardous Vapor Areas!



*NOTE: In some cases only a small amount of open air is needed for effective static neutralization over a grounded object. Examples: over a stack of sheets while feeding, or on a feedboard of a printing press.

There Should Be Free Air on the Opposite Side of the Material to Be Neutralized