Shockless AC Ionizing Bar Model 55000 and Ionizing Air Knife Model 55500

International AiRTX
The Air Research Technology Company
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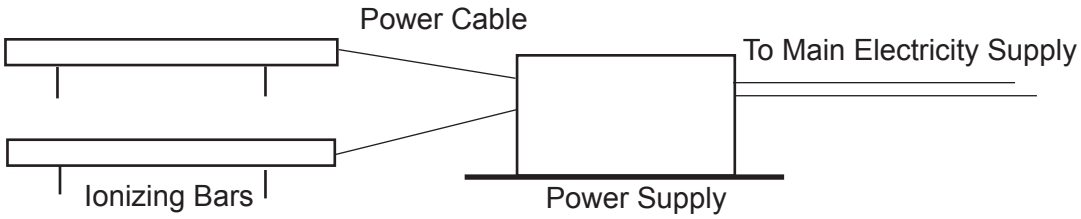
The Model 55000 Ionizing Bar incorporates a unique inductively coupled design, which achieves powerful static neutralization with complete shockproof operation.

OPERATION:

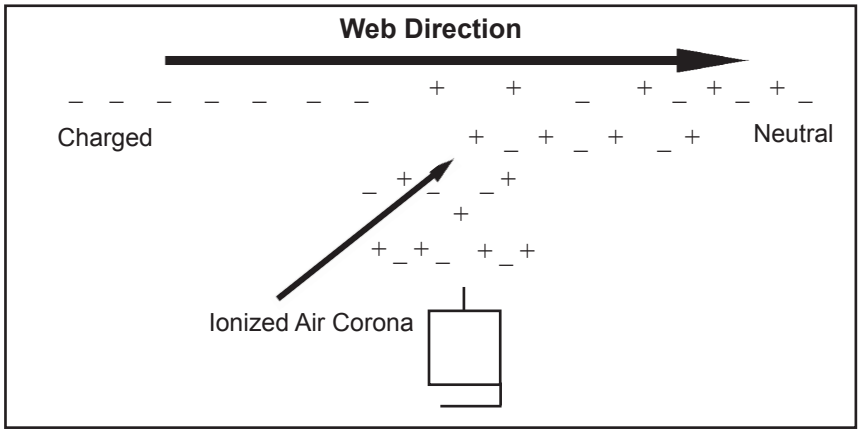
The typical AiRTX Model 55000 installation consists of one or more ionizing bars connected to an AiRTX Power Supply.

MODEL 50000	(115V)	7500V Outlets (4)	**MODEL 50002**	(115V)	6000V Outlets (2)
MODEL 50000-1	(230V)	7500V Outlets (4)	**MODEL 50002-1**	(230V)	6000V Outlets (2)



The Power Unit converts the primary, (115/230V) electricity supply into a high voltage, 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 shockproof to a human being 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 2" from the bar and have a life of approx. 2 seconds before they recombine with themselves or the atmosphere.



TECHNICAL AND CONSTRUCTION:

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

Standard Models

Model	Description
55003	3" Ionizing Bar
55006	6" Ionizing Bar
55012	12" Ionizing Bar
55018	18" Ionizing Bar
55024	24" Ionizing Bar
55030	30" Ionizing Bar
55036	36" Ionizing Bar
55042	42" Ionizing Bar
55048	48" Ionizing Bar
55060	60" Ionizing Bar

Custom Length available up to 112" (2845mm)

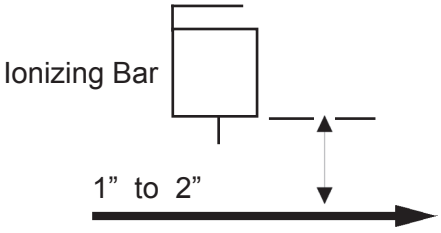
INSTALLATION OF MODEL 55000 BARS

Correct positioning is vital to the efficient operation of Static Elimination Bars. Factors to be considered are:

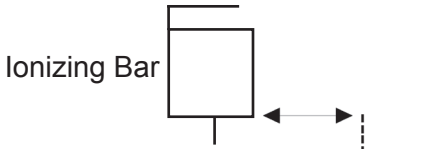
1 Correct positioning relative to the problem i.e. immediately before problem area, with no intermediary rollers or processes which could regenerate the charge.
2 Speed of material - higher speeds require more static elimination.
3 Conductivity and density of material. The less conductive or more dense (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

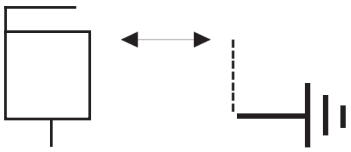


Bars should be staggered if positioned on opposite sides of the material



If positioned opposite each other, distance between bars should not be less than distance of either bar to surface (1/4 inch to 3/4 inch)

Avoid proximity to grounded parts of the machine

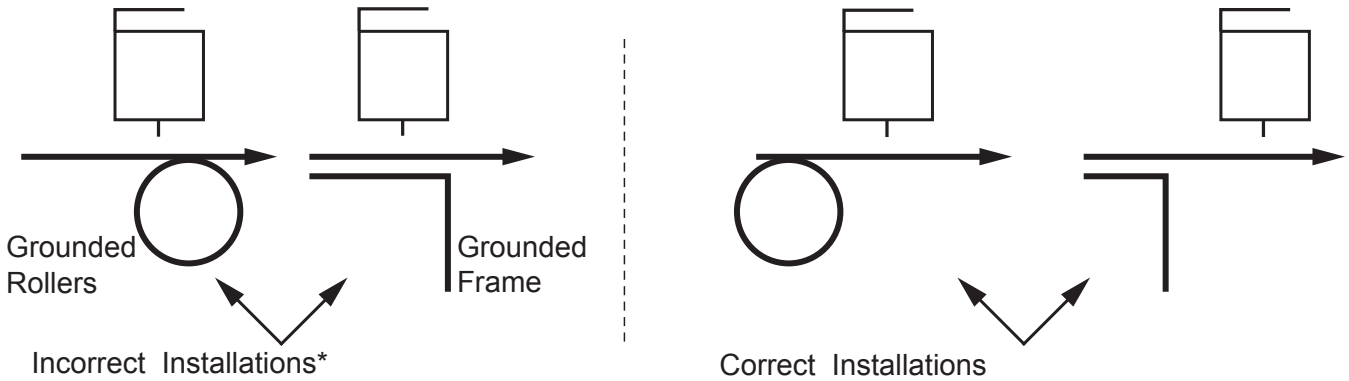


The bar should not "see" a grounded object. Grounded objects will distort the corona and reduce its efficiency.
Distance from grounded object should not be less than distance from surface (1/4" to 3/4")

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.

There should be free air on the opposite side of the material to be neutralized



**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.*

CAUTION: THIS EQUIPMENT IS NOT TO BE USED IN HAZARDOUS VAPOR AREAS!
Do not use solvents to clean ionizing equipment and wires as this may damage the installation on the wiring and cause failure.
Disconnect powercord and use soap and water to clean the equipment