

## Air Ionizing Cartridge

Model 6110(a)



*Compressed air ionizing cartridge can be used for in-line equipment ionization or as an ionizing blow-off gun*

### FEATURES

- IsoStat® Technology
- Internal air flow sensor (model 6110a)
- Shielded emitter points
- Compact size
- Optional blow-off gun kit


### BENEFITS

- Intrinsically balanced; no calibration needed
- On-demand ionization during gun operation
- No shock hazard
- Adapts to compressed air lines
- Fits any air gun


### Air Ionizing Cartridge

Ion Systems' self-contained compressed air ionizing cartridge controls static charge in production, packaging, laboratory and other environments where static build-up can cause contamination, ESD, material handling problems or microprocessor lock-up. Compact and rugged, the cartridge can be used either for in-line ionization or as an ionizing blow-off gun. For in-line use, connect the 6110 to a compressed air source and it is ready to ionize any type of production equipment. Or attach the 6110 to an ordinary air gun and the airstream is ionized for effective particle removal. An internal sensor initiates ionization only when the gun is triggered, ensuring on-demand control of static charge (model 6110a).

**Model 6110** **Specifications**

<b>Input</b>	24 VAC, less than 1 watt, from 1310 wall transformer
<b>Power Source</b>	Wall transformer: 120 VAC (powers up to 10 units), 230 VAC model available
<b>Power Indicator</b>	Green LED
<b>Ion Emission</b>	Steady-state DC
<b>Emitter Points</b>	Permanent tungsten alloy, estimated life: 5 years of continuous use
<b>Ion Balance</b>	Better than $\pm 25$ volts at 6 inches
<b>Discharge Time</b>	$\pm 1,000$ volts to 100 volts
<b>Air Flow Requirements</b>	At least 2 scfm
<b>Air Line Requirements</b>	1/4" NPT female (input and output); 1/8" NPT adapter available
<b>Internal Sensor</b>	Turns ionizer off when air is not flowing; model without sensor also available for continuous flow applications
<b>Dimensions</b>	2.2"D x 3.1"L (5.6 x 7.9 cm) not including fittings
<b>Weight</b>	6 oz. (170.1 g)
<b>Warranty</b>	2-year limited warranty
<b>Certifications</b>	

**1310 Wall Transformer (Not Included)**

<b>Input</b>	120 VAC, 50/60 Hz, 32 watts, alternate transformer available for 230 VAC operation; powers up to four 6110(a) cartridges with an optional Y connector
<b>Output</b>	24 VAC, 1.0 amp
<b>Cabling</b>	8' (243.8 cm) cable with RJ-11 connectors; custom lengths available
<b>Dimensions</b>	3.2"H x 2.5"W x 1.9" D (8.1 x 6.6 x 4.8 cm)
<b>Weight</b>	1 lb. (454 g)
<b>Certifications</b>	 (120 VAC model)



Gun/hose kit shown is optional. Reference part #6150.

**Patented IsoStat Technology**

Ion Systems' patented IsoStat Technology guarantees intrinsically balanced ionization and eliminates complicated feedback circuits. Ionizers incorporating this technology never need calibration and require very little maintenance. IsoStat is based on a law of physics, Conservation of Charge, which states that charge cannot be created or destroyed in an isolated system. By isolating the ionizer's emitter points from ground, IsoStat ensures equal numbers of positive and negative ions.

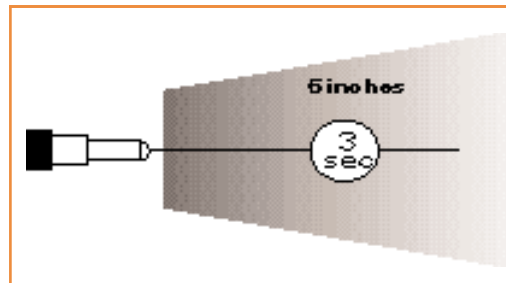
**Applications**

In-line ionization. Reduces ESD damage and microprocessor lock-up in:

- IC packaging and marking
- Surface-mount equipment
- Device testing equipment

Ionizing blow-off gun. Removes particles in:

- Printed circuit board assembly
- Medical device manufacturing
- Film processing



Testing was performed with a charged plate monitor in accordance with Ionization Standard ANSI EOS/ESD S3.1-1991 of the ESD Association.

