



Air Ionizing Cartridge

MODEL 6110 / 6110A

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).




Features and Benefits

- Patented IsoStat® technology¹
- Intrinsicly balanced; no calibration needed
- Internal air flow sensor (Model 6110A)
- On-demand ionization during gun operation
- Shielded emitter points
- No shock hazard
- Compact size
- Adapts to compressed air lines
- Optional blow-off gun kit
- Fits any air gun

¹ U.S. Patent No. 5,055,963



Specifications

Air Ionizing Cartridge Model 6110 / 6110A	
Input voltage	24 VAC, less than 1 watt, from transformer
Power source	Wall transformer: 120 VAC (powers up to 10 units), 100 VAC and 230 VAC models available
Indicators	Power green LED
Ion emission	Steady state DC
Emitter points	Tungsten alloy, estimated life: 5 years of continuous use
Ion balance	Better than ± 25 volts at 6 inches (15.2 cm)
Discharge time	$\pm 1,000$ volts to 100 volts, less than 4 seconds Tested in accordance with ANSI/ESD STM3.1-2000
Airflow requirements	At least 2 scfm
Air line requirements	1/4" NPT female (input and output); 1/8" NPT adapter available
Internal sensor (Model 6110A only)	Turns ionizer off when air is not flowing; model without sensor also available for continuous flow applications
Dimensions	2.2D x 3.1L inches (5.6D x 7.9L cm) not including fittings
Weight	6 oz (170.1g)
Warranty	2 year limited warranty
Certifications	  

Ordering Information

91-6110	Model 6110 Air Cartridge Ionizer
91-6110A	Model 6110A Air Cartridge Ionizer with airflow sensor
91-6150	Optional air gun/hose kit
14-1306	100 VAC transformer
14-1310	120 VAC wall transformer
14-1523	230 VAC transformer



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Optional gun/hose kit (p/n 91-6150).

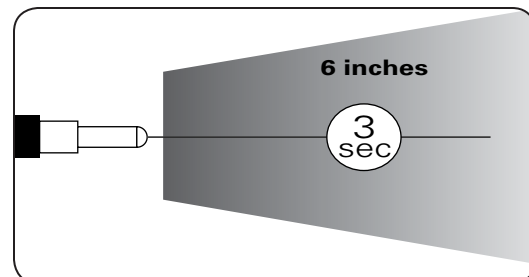
Patented IsoStat Technology

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 micro-processor 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 S3.1-2000 of the ESD Association.