



**Ionization Systems**  
 WWW.ION.COM

# 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

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

## Specifications

|                       |   |
|-----------------------|---|
| Input Voltage         | 24 VAC, <1W 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 $\pm 25V$ @ 6 in. (15.2 cm)   |
| Discharge Time        | $\pm 1,000$ to 100V, <4 sec; tested in accordance with ANSI/ESD STM3.1-2000   |
| Airflow Requirements  | At least 2 scfm   |
| Air line Requirements | 1/4 in. NPT female (input and output); 1/8 in. NPT adapter available  |
| Internal Sensor       | Turns ionizer off when air is not flowing (Model 6110A only); model without sensor also available for continuous flow applications  |
| Dimensions            | 2.2D x 3.1L in. (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                                   |



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

## IsoStat Technology

ION Systems 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.

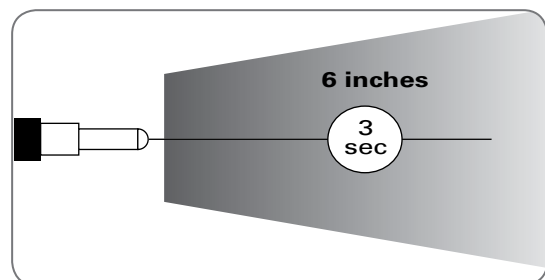
## Applications

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



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