

Ionizing Air Cartridge

6110/6110A

Simco-Ion's 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, both models connect to a compressed air source, and it is ready to ionize any production equipment.

Model 6110A (with airflow) may be attached 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.

Features

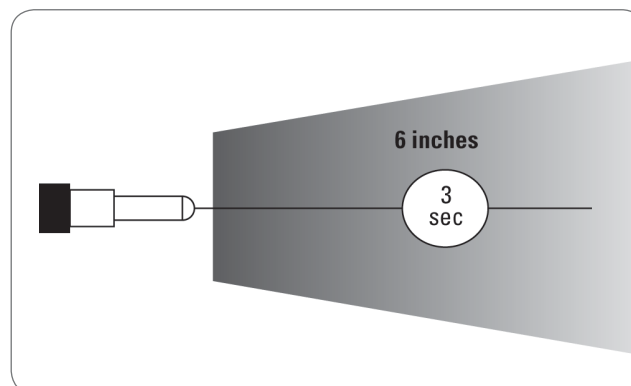
- IsoStat technology
- Internal air flow sensor (Model 6110A)
- Shielded emitter points
- Compact size
- Optional blow-off gun kit

Benefits

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



Typical Discharge Times (sec)



<4 sec, 1000-100V for either polarity. Measured with 6110(A) air output connector 6" from the plate of a CPM and an inlet air flow rate of at least 2 scfm. 2 scfm is the minimum flow rate for operation of the 6110(A).

IsoStat Technology

Simco-Ion's 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.

6110/6110A Specifications

Airflow	At least 2 scfm
Air Line	1/4" NPT female (input and output), 1/8" NPT adapter available
Balance	>±25V @ 6" (15.2 cm)
Discharge*	±1,000-100V, <4 sec
Emitter Points	Tungsten alloy, estimated life 5 years of continuous use
Indicators	Green power
Power	Wall transformer 120 VAC (powers up to 10 units), 100 VAC & 230 VAC models available
Sensor	Turns ionizer off when air is not flowing (Model 6110A only), model without sensor also available for continuous flow applications
Technology	Steady-state DC
Voltage	Input: 24 VAC, <1W from transformer
Dimensions	2.2"D x 3.1"L (5.6 x 7.9 cm) not including fittings
Weight	6 oz (170.1g)
Certifications	CE, RoHS, REACH, ISO 9001

* Tested in accordance with ANSI/ESD STM3.1-2015.

Accessories

The Model 6110A is supplied with a nozzle and adapter which may be used as an air gun using Simco-Ion air gun/hose kit, part number 91-6150. (The Model 6110 does not operate with this kit.)



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

