

IONIZING AIR CARTRIDGE - ION 110



Ground Zero'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 blowoff gun. For in-line use, connect the Ion 110 to compressed air source and it is ready to ionize any type of production equipment. Or attach the cartridge 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
- ✦ Shielded emitter points
- ✦ Compact size
- ✦ Optional blow-off gun kit
- ✦ Audio or visual notification of system failure not included with this model

Benefits:

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

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

Patented IsoStat Technology

The ION 110's 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 to better protect sensitive products.



Ground Zero Electrostatics IONIZING AIR CARTRIDGE

SPECIFICATIONS:

Input	24 VAC, less than 1 watt, from wall transformer
Power Source	Wall transformer: 120 VAC (powers up to 10 units), 230 VAC model available
Power	Indicator Green LED
Ion Emission	Steady-state DC
Emitter Points	Permanent tungsten alloy, estimated life:5 years of continuous use
Ion Balance	Better than ± 25 volts at 6 inches
Discharge Time	$\pm 1,000$ volts to 100 volts
Air Flow	Requirements At least 2 scfm
Air Line Requirements	1/4" NPT female (input and output); 1/8" NPT adapter available
Internal Sensor	Turns ionizer off when air is not flowing; model without sensor also available for continuous flow applications
Dimensions	2.2"D x 3.1"L (5.6 x 7.9 cm) not including fittings
Weight	6 oz. (170.1 g)
Warranty	2-year limited warranty
Certifications	CE U _L
Wall Transformer	
Input	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
Output	24 VAC, 1.0 amp
Cabling	8' (243.8 cm) cable with RJ-11 connectors; custom lengths available
Dimensions	3.2"H x 2.5"W x 1.9" D (8.1 x 6.6 x 4.8 cm)
Weight	1 lb. (454 g)
Certifications	UL (120 VAC model) R

