



AirForce Ionizing Blow-off Gun

MODEL 6115

The Simco-Ion AirForce Ionizing Blow-off Gun was designed with the operator in mind. The AirForce's lightweight, flexible air hose—just 3/8" in diameter—moves with the operator and makes work easier. No high voltage cable means improved operator safety. The gun's ergonomic design—with a light touch trigger and easy-view LED—minimizes fatigue and eliminates wrist hyperextension. The compact console can be mounted anywhere, so it doesn't take up valuable workspace but is still easily accessible. To make the work environment more pleasant, the AirForce also features low audible noise.

Strong blow-off power makes the AirForce effective in removing particle contamination and ideal for use in clean process applications. The 6115 is the only gun product rated at ISO 14644-1 Class 4 cleanliness (Fed. Std. 209e Class 10 equivalent). Steady-state DC ion emission provides efficient ionization with an average discharge time of less than 1.0 second. Results are even better because Simco-Ion IsoStat technology means static charge is controlled with constantly balanced ionization.

Features



- Ergonomic gun design
- Flexible, lightweight air hose with integral low voltage power cable
- Replaceable emitter point assembly and quick-eject filter
- Strong blow-off force
- Steady-state DC ion emission
- IsoStat® technology
- Durable static-dissipative materials
- ISO 14644-1 Class 4 cleanliness operation

Benefits

- Reduces fatigue and wrist hyperextension
- Moves with operator and does not interfere with work
- Minimizes maintenance downtime
- Effective removal of particle contamination
- Fast discharge times; efficient ion delivery
- Intrinsically balanced; no calibration needed
- Holds up to high impact; ESD-safe
- Suitable for use in cleanroom applications for semiconductor, medical and HDD applications



Specifications

Discharge Time	±1000-100V 1.0 sec @ 6 in. (15.2 cm), 30 psi; tested in accordance with ANSI/ESD STM3.1-2000
Ion Balance	±30V
Cleanroom Class	Meets ISO 14644-1 Class 4 (Fed Std. 209E Class 10)
Construction	Gun/console, static-dissipative polycarbonate; gun hanger, 302 stainless steel; optional mounting stand for hands-free operation
Console Power Requirements	24 VAC, 10W powered from wall transformer
Indicators	Green LED on both console and gun
Ion Emission	Steady-state DC
Emitter Points	Tungsten emitter points
Audible Noise	70 dBA @ 1m, 30 psi
Conducted EMI	29 dBµV; average level 100 KHz to 1.1 MHz
Ozone	<0.005 ppm (24-hour accumulation); conforms to OSHA requirements
Blow-off Force	41g @ 30 psi; measured @ 3 in. (7.6 cm) from a 2 in. (5.1 cm) dia. target
Airhose	Static-dissipative polyurethane, 3/8 in. outside diameter; 7 ft (2.1m)/65 psi
Console Gas Input	20-65 psi, Clean Dry Air (CDA) or nitrogen
Gas Connection	1/4 in. male industrial interchange quick disconnect
Gas Air Filter	99.9% efficient, 0.1 micron or larger
Mounting	Metal mounting plate attaches to back of console
Dimensions	Gun 8L x 3W x 1D in. (20.3L x 7.6W x 2.5D cm); console 8.5L x 3.0W x 1.6D in. (21.6L x 7.6W x 4.1D cm)
Weight	Gun 12 oz (341g) with 7 ft (2.1m) air hose; console 11.5 oz (326g)
Warranty	2 year limited warranty
Certifications	  RoHS Compliant

Ordering Information

91-6115-NXFMR	Model 6115 with 8 ft hose
92-6115-US	Model 6115 with 8 ft hose; 120 VAC wall transformer
33-6115	Optional gooseneck mounting stand
91-6115SWT	Optional foot pedal
14-1306	100 VAC transformer
14-1310	120 VAC wall transformer
14-1523	230 VAC transformer

High Reliability

IsoStat technology also guarantees that the AirForce is calibration-free and requires little maintenance when used with CDA or nitrogen. When the air filter or emitter points need replacement, they snap in and out in less than a minute—reducing gun down-time and improving long-term performance. To avoid replacement costs, the AirForce is made from durable polycarbonate that holds up to high impact. The gun body, air hose and control console are static-dissipative and ESD-safe. And an extremely low EMI level ensures the AirForce won't interfere with other electronic equipment or operations.

IsoStat Technology

Simco-Ion's IsoStat technology is the first balancing technology for ionizers to guarantee intrinsically balanced ionization and elimination of complicated feedback circuits. 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. Characteristics of IsoStat ionizers include:

- Ionizers never need calibration and require very little maintenance.
- Small size and operation without grounding wires.



The AirForce is lightweight, flexible and easy-to-use. With strong blow-off power the AirForce is effective in removing particle contamination.



Optional hands free Gooseneck mounting stand.



Optional hands free foot pedal.

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