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Ion Systems

AirForce™ Ionizing Blow-off Gun

MODEL 6115

The 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. Steady-state DC ion emission provides efficient ionization with an average discharge time of less than 1.0 second. Results are even better because Ion's patented IsoStat technology[1] means static charge is controlled with constantly balanced ionization.

Features and Benefits

- Ergonomic gun design
- Reduces fatigue and wrist hyperextension
- Flexible, lightweight air hose with integral low voltage power cable
- Moves with operator and does not interfere with work
- Replaceable emitter point assembly and quick-eject filter
- Minimizes maintenance downtime
- Strong blow-off force
- Effective removal of particle contamination
- Steady-state DC ion emission
- Fast discharge times; efficient ion delivery
- IsoStat® technology
- Intrinsically balanced; no calibration needed
- Durable static-dissipative materials
- Holds up to high impact; ESD-safe

1. U.S. Patent No. 5,055,963

Specifications

AirForce Ionizing Blow-off Gun Model 6115	
Audible noise	70 dBA at @ 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	41 grams at 30 psi; measured at 3" (7.6 cm) from a 2" (5.1 cm) diameter target
Discharge time	±1000-100V 1.0 seconds at 6" (15.2 cm), 30 psi, Tested in accordance with ANSI/ESD STM3.1-2000
Ion balance	±30 volts
Construction	*Gun and console:* Static-dissipative polycarbonate *Gun hanger:* 302 stainless steel; optional mounting stand for hands-free operation
Console power requirements	24 VAC, 10 watts powered from wall transformer
Indicators	Green LED on both console and gun
Ion emission	Steady-state DC
Emitter points	Tungsten emitter points
Airhose	Static-dissipative polyurethane, 3/8" outside diameter; 7' (2.1m)/65 psi
Console gas input	20-65 psi, Clean Dry Air (CDA) or nitrogen
Gas connection	1/4" 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 inches (20.3L x 7.6W x 2.5D cm) *Console:* 8.5L x 3.0W x 1.6D (21.6L x 7.6W x 4.1D cm)
Weight	*Gun:* 12 oz (341g) with 7' (2.1m) air hose *Console:* 11.5 oz (326 g)
Warranty	2 year limited warranty
Certifications	CE, GS, c UL us

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

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.

Patented IsoStat Technology

Ion's patented 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

Ordering Information

91-6115-NXFMR	Model 6115 AirForce Gun, 8 ft hose
33-6115	Optional gooseneck mounting stand
91-6115SWT	Optional footswitch
14-1306	100 VAC transformer
14-1310	120 VAC wall transformer
14-1523	230 VAC transformer

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