

Intellistat® Ion Air Gun™

Lightweight solution for static and particulate elimination in sensitive processes!

NEW



What is the Intellistat Ion Air Gun?

The patented Intellistat is the newest innovation in a long line of EXAIR static elimination solutions. This intelligent product utilizes balanced and ionized compressed air to neutralize static and remove troublesome particulates during clean processes, test procedures and sensitive assembly work. With a +/-30 volt offset, the Intellistat was designed to consume minimal compressed air while simultaneously delivering precise blow-off and exceptional static decay rates capable of reducing 5000 volts to less than 500 in under one second. The design hosts an efficient, low voltage transformer converting 120V to 24V to assure safety, while also utilizing an EXAIR engineered air nozzle ensuring it meets all OSHA requirements for sound level and dead-end pressure.

Why the Intellistat Ion Air Gun?

Coming equipped with a short-throw, fast acting and effortless trigger, the Intellistat's lightweight frame (less than 200 grams) allows extended use without fatigue, while also providing a dependable and low maintenance solution. The Model 8500 Intellistat Ion Air Gun is also fitted with handy features such as a 6mm air connection, red and green LED lights to signify ionized air is being produced, and a hook for convenient hanging and storage. The 316SS emitter point is so simple to change, it can be completed in less than one minute. It's fashioned from durable dissipative polycarbonate to assure its usefulness in applications requiring non-conductivity such as circuit boards or electronics manufacturing, and produces clean, ionized compressed air essential for removing dust, static, or particulate contaminants in sterile environments such as laboratories, clean rooms, or scientific testing.

EU Regd. Des. No. 007770318-0001
Pat. D903,817



Applications

- Precision parts assembly
- Maintain charge neutrality in laboratory processes
- Remove particles from parts and surfaces in clean environments
- Printed circuit board manufacturing
- Maintain cleanliness during electronics manufacturing and assembly
- Eliminating electrostatic discharge
- Remove debris from medical products
- Clean glass containers, slides and lenses

Advantages

- Rapid static decay
- Low voltage operation
- Quick change emitter point
- Comfortable, short throw trigger for ionization
- Light weight for prolonged use
- OSHA safe air outlet
- LED indicators for proper and improper functionality

Intellistat Ion Air Gun

How The Intellistat Ion Air Gun Works



Pressing the full finger, short throw trigger (1) activates the static eliminating ions and airflow. Proper or improper functionality is indicated by a green or red LED (2). The non-marring nozzle (3) provides quiet performance and OSHA compliance. A hanger hook (4) is included to keep the Intellistat conveniently stored.

Intellistat Ion Air Gun Specifications

Certifications: The Intellistat Ion Air Gun is UL listed and CE and RoHS compliant.

Power Supply Input: 100-240V — 50/60 Hz 0.7A Max

Power Supply Output: EXAIR Model 902067 Power Supply (24VDC, 1.0A Max) is required for Intellistat Ion Air Gun operation. Included with Intellistat Ion Air Gun.

Electrical Hazard: Shockless (less than 40 microamperes shirt circuited)

Do not use near flammable materials or gases.

Balance: ±30V

Size of Hand Unit: 6-3/8" W x 6-3/4" L x 1" H

Weight of Hand Unit: 0.42 lbs

Operating Temperature: 32°F to 105°F (0-41°C)

Do not use near flammable materials or gases.

Materials of Construction:

Plastic Parts: Static Resistant Polycarbonate

Emitters: Stainless Steel

Gas Input: 30psi - 125psi

Clean Dry Compressed Air or Nitrogen

Air Connection: 6mm tube



Intellistat Ion Air Gun Performance

Flow		Air Consumption		Sound Level
PSIG	BAR	SCFM	SLPM	dBA
30	2.1	2.7	76.46	76
80	5.5	5.8	164.21	81

Intellistat Ion Air Gun Force / Discharge Time

Pressure Supply		Force*				Discharge Time**
PSIG	BAR	LBS	OZ	GRAMS	SECONDS	5000V to 500V
30	2.1	0.02	0.32	9.1	0.8	
80	5.5	0.1	1.6	45.4	0.5	

* 12" (305mm) from target. ** Discharge rate taken from 1" away.

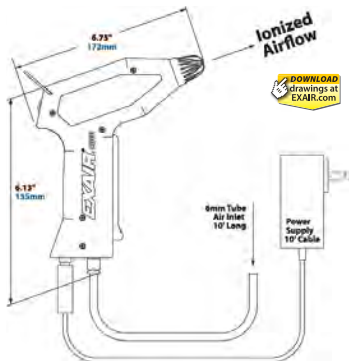
Intellistat Ion Air Gun

Model #	Description
8500	Intellistat Ion Air Gun includes 24VDC Power Supply with Power Cable and 10 feet x 6mm OD compressed air tubing.

Accessories and Components

Model #	Description
9004	Automatic Drain Filter Separator, 1/4 NPT, 43 SCFM (1,218 SLPM)
9008	Pressure Regulator with Gauge, 1/4 NPT, 50 SCFM (1,415 SLPM)
7905	Static Meter
902067	24VDC Power Supply

Intellistat Ion Air Gun Dimensions



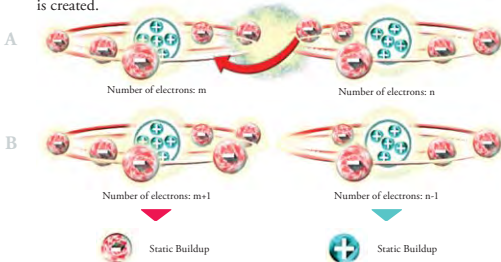
Static Eliminators

Basics of Static Electricity

Static Electricity and Electrostatic Discharge can be a large disruptor of processes within manufacturing facilities. It will cause problems maintaining product quality, keeping process speeds at optimum levels and will impact the moral of personnel experiencing static shocks. Our white paper starts with electron theory, identifies how static is generated and ends with specific solutions.

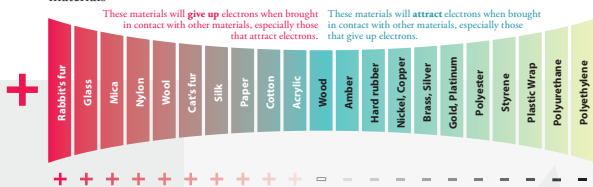
What Causes Static Electricity?

Static electricity occurs most often on the surface of non-conductive materials but can also occur on ungrounded Conductive surfaces. A static (non-moving) electric charge is created.



What Determines the Amount of Static Electricity Imbalance?

The Triboelectric Series chart below shows the static buildup tendencies of various materials



Types of Static Generation

There are three types of static generation. First is Contact Static Buildup...



EXAIR's White Paper will help you learn what causes static electricity and how it develops. Discover what steps can be taken to eliminate static and which products are helpful to control static within your facility.



Download Basics of Static Electricity now at <https://exair.co/bose04> or scan the qr code provided.