



Ion Air Cannon™

Quiet, efficient, concentrated flow of ionized air removes static and dust!



What Is The Ion Air Cannon?

EXAIR's Ion Air Cannon neutralizes static electricity and cleans at distances up to 15 feet (4.6m) with no moving parts. It is ideal for those hard to reach spaces or confined areas that require a concentrated flow of static eliminating ions. With an optional pressure regulator, the air volume and velocity are infinitely adjustable over a wide range, for light to heavy duty applications.

Why The Ion Air Cannon?

The Ion Air Cannon will **maximize ionized airflow while minimizing compressed air consumption**. A small amount of compressed air is used to entrain a high volume flow of surrounding air. This combined stream is ionized by an emitter point (shockless) and delivered to the charged surface. A hose or tube can be connected to the air intake of the Ion Air Cannon to draw quality air from another area. It requires only 10 PSIG (0.7 BAR) for most applications.

The compact design saves bench space and allows mounting in confined areas. The sturdy stand is pre-drilled and can be wall, bench or machine mounted. It incorporates a swivel adjustment for directing the airflow.

EXAIR's EFC (shown on page 4 of the Common Catalog) is an electronic flow control for compressed air. For production lines, it can sense when no part is present and will automatically turn off the compressed air to the Ion Air Cannon until the next part moves into position.

Applications

- Bag opening - form and fill
- Clean and neutralize parts
- Neutralizing shrink wrap
- Cleaning molded parts
- Removing static on assemblies
- Pre-paint dust removal
- Neutralizing slitting operations
- Package cleaning
- Container neutralization

Advantages

- Low air consumption
- Rapid static decay
- Quiet
- Effective up to 15 feet (4.6m)
- Shockless, non-radioactive
- Compact, rugged, easy to install
- Intake can be ducted
- No moving parts - low maintenance
- Variable force and flow

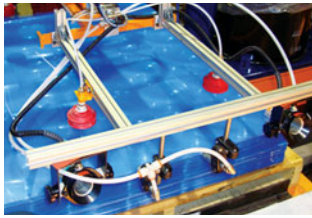


The Model 7292 Ion Air Cannon System eliminates the static and dust prior to filling the bottles.

Static Eliminators



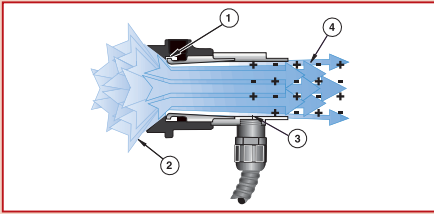
(3) Ion Air Cannons blow contaminants from car bodies prior to painting.



Model 7192 Ion Air Cannons provide static elimination in between solar panel lenses to assist separation of the lenses during production.

Ion Air Cannon

How The Ion Air Cannon Works



The Ion Air Cannon incorporates a Super Air Amplifier* and ionizing collar, energized by a power supply. A small amount of compressed air is injected into the barrel of the cannon (1) inducing a high volume flow of surrounding air to flow through it (2). An emitter point at the discharge end of the cannon (3) ionizes the entire airstream. The result is a high volume, conical flow of ionized air (4) capable of eliminating static and cleaning at distances up to 15 feet (4.6m). Because more than 90% of the ionized air is induced, the **Ion Air Cannon produces maximum airflow at minimum air consumption.**



Model 7492 Ion Air Cannon Kit includes the Ion Air Cannon, shim set, Model 7901 Power Supply, filter separator and pressure regulator (with coupler).

Ion Air Cannon

Model #	Description
7192	Ion Air Cannon includes Super Air Amplifier, Emitter, Stand, and 5' (1.52m) length of shielded cable
7292	Ion Air Cannon and Power Supply
7492	Ion Air Cannon Kit (see above)

Deluxe Ion Air Cannon Kits

7492DX	Kits include an Ion Air Cannon, EFC, shim set, Model 7901 Power Supply, filter separator and pressure regulator (with coupler).
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Accessories and Components

7902	Extension Cable, shielded, 5' (1.52m) length (1 male and 1 female fitting)
7901	2 Outlet Power Supply (115V, 50/60Hz)
7907	2 Outlet Power Supply (230V, 50/60Hz)
7940	4 Outlet Power Supply (115V, 50/60Hz)
7941	4 Outlet Power Supply (230V, 50/60Hz)
9001	Auto Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM)
9008	Pressure Regulator with Gauge, 1/4 NPT, 50 SCFM (1,416 SLPM)
7905	Static Meter

*Patent #5402938

Ion Air Cannon Specifications

EXAIR Model 7901, 7907, 7940 or 7941 Power Supply (5kV) is required for operation. See page 83 of the Catalog for details.

Certifications: The Ion Air Cannon is UL Component Recognized to U.S. and Canadian safety standards. Power supplies are UL Listed to U.S. and Canadian safety standards, and are CE and RoHS compliant.

Electrical: For use with 5 kVrms, 5 milliamperes (max.) power supply.

Electrical Hazard: Shockless (less than 40 microamperes short circuited).

Do not use near flammable materials or gases.

Materials of Construction:

Air Cannon: Aluminum

Ionizing Collar: Aluminum

Plastic Parts: UL rated 94 HB Emitter: Stainless Steel

Maximum Ambient Temperature: 165°F (74°C)

Shims: Thicker shims can be installed easily if additional hard-hitting velocity is required. See page 40 of the Catalog. **Compressed Air:** 3/8 NPT inlet provided.

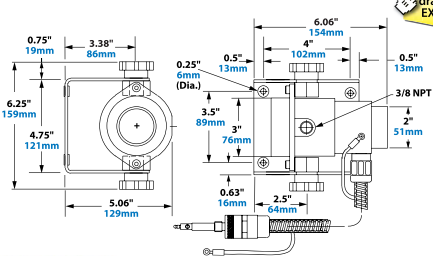


Ion Air Cannon Performance

Pressure Supply		Air Consumption		Sound Level	Dissipates 5kV*
PSIG	BAR	SCFM	SLPM	dBA	SECONDS
20	1.4	5.7	161	58	0.75
40	2.8	9.0	255	64	0.60
60	4.1	12.2	345	70	0.50
80	5.5	15.5	439	72	0.43
100	6.9	18.7	529	74	0.37

* 12" (305mm) from target. For airflow pattern, see Super Air Amplifier on page 40 of the Common Catalog.

Ion Air Cannon Dimensions



DOWNLOAD drawings at EXAIR.com

GO GREEN



Order EXAIR's EFC™ electronic flow control to minimize compressed air use. See page 4 for details.

