



Standard Ion Air Knife™

A sheet of ionized air is an effective way to eliminate static and clean parts or materials!



What Is The Standard Ion Air Knife?

EXAIR's Standard Ion Air Knife is an effective way to eliminate static. Like its "super" counterpart, the Standard Ion Air Knife removes static electricity from plastics, webs, sheet stock and other surfaces where tearing, jamming or hazardous shocks are a problem.

This ionizer uses our original Standard Air Knife to carry ions from an ionizing bar to the charged surface - up to 20 feet (6.1m) away. Though not as efficient as our Super Ion Air Knife (40:1 air amplification), the Standard Ion Air Knife (30:1 air amplification) still provides fast static decay and strong blowoff force for cleaning. Force can be adjusted from a "blast" to a "breeze". The Standard Ion Air Knife is electrically powered, is shockless and has no moving parts.

Why The Standard Ion Air Knife?

When air consumption and noise level are not critical to the application, the lower cost makes the Standard Ion Air Knife a good choice. (To compare the Super Ion Air Knife and Standard Ion Air Knife, see the performance tables on pages 82 and 88 of the Common Catalog.)

Compressed air inlets are provided on each end of the Standard Ion Air Knife. For long spans, multiple Standard Ion Air Knives can be mounted end-to-end. This produces an air gap at the connection end of about 2" (51mm). (If no air gap is desired, use the Super Ion Air Knife.) Special length Ionizing Bars up to 119" (3.02m) are available for multiple air knife applications.

Applications

- Web cleaning
- Molding machinery
- Sheeters and trimmers
- Cleaning parts
- Pre-paint dust removal
- Shrink wrappers
- Package cleaning
- Bag opening/fill operations
- Printing equipment

Advantages

- Reduced air consumption
- 30:1 air amplification
- Low noise level
- Effective up to 20 feet (6.1m)
- Shockless, non-radioactive
- Compact, rugged, easy to install
- Unlimited system lengths
- Low maintenance
- Variable force and flow

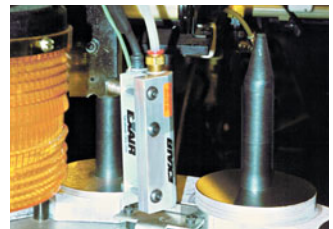


The Model 7218 18" (457mm) Standard Ion Air Knife System showers parts with static eliminating ions to prevent personnel shocks.

Static Eliminators



A Model 7212 12" (305mm) Standard Ion Air Knife System cleans metal frames prior to powder coating.



A Model 7103 3" (76mm) Standard Ion Air Knife removes dust from computer hard disks prior to assembly.

Standard Ion Air Knife

Standard Ion Air Knife Performance

Pressure Supply		Air Consumption*		Sound Level	Dissipates 5kV**
PSIG	BAR	SCFM	SLPM	dBA	SECONDS
5	0.3	6	170	66	0.55
10	0.7	8	227	68	0.40
20	1.4	16	453	69	0.25
40	2.8	24	679	78	0.20
60	4.1	32	906	84	0.18
80	5.5	41	1,160	87	0.18
100	6.9	49	1,387	90	0.18

* per foot (305mm) of length ** 6" (152mm) from target.
For airflow pattern, see Standard Air Knife page 26. of the Common Catalog
Note: Performance on lengths over 36" will vary. Contact an Application Engineer for details.



Kits include the Standard Ion Air Knife, shim set, Model 7901 Power Supply, filter separator and pressure regulator (with coupler).

Standard Ion Air Knife Specifications

The Standard Ion Air Knife is available in standard lengths of 3", 6", 9", 12", 18", 24", 30", 36", 42" and 48" (76, 152, 229, 305, 457, 610, 762, 914, 1067 and 1219mm). **Special lengths up to 48" (1219mm) and unlimited system lengths are available (please contact our factory).**

A 5' (1.52m) shielded power cable with ground and assembled bayonet connector are included.

EXAIR Model 7901, 7907, 7940 or 7941 Power Supply (5kV) is required for bar operation.

See page 83 of the Common Catalog for details.

Certifications: Ionizing Bars are 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.

Compressed Air: 1/4 NPT inlets are provided on each end.

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

Electrical Hazard: Ionizing Bars are shockless (less than 40 microamperes short circuited).

Do not use near flammable materials or gases.

Materials of Construction:

Standard Air Knife: Aluminum

Ionizing Bar Channel: Aluminum

Plastic Parts: UL rated 94 HB **Emitters:** Stainless Steel

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

Shims: Thicker shims can be installed easily if additional hard-hitting velocity is required, see "shim sets" page 25 of the Common Catalog.

Special length Standard Ion Air Knives and unlimited system lengths are available. Please contact our factory. See Accessories and Components on page 86 .

Standard Ion Air Knife Models

Standard Ion Air Knife - consists of the Standard Air Knife and Ionizing Bar assembly. Does not include Power Supply.

Standard Ion Air Knife Systems - include a Standard Ion Air Knife and Model 7901 Power Supply (115V, 50/60Hz).

Standard Ion Air Knife Kits - include a Standard Ion Air Knife, Model 7901 Power Supply, shim set, filter separator and pressure regulator (with coupler).

Deluxe Standard Ion Air Knife Kits - include a Standard Ion Air Knife, EFC, Universal Mounting System, Model 7901 Power Supply, shim set, filter separator and pressure regulator (with coupler).

Length	Standard Ion Air Knife Model	Standard Ion Air Knife Systems Model	Standard Ion Air Knife Kits Model	Deluxe Standard Ion Air Knife Kits Model
3" (76mm)	7103	7203	7403	7403DX
6" (152mm)	7106	7206	7406	7406DX
9" (229mm)	7109	7209	7409	7409DX
12" (305mm)	7112	7212	7412	7412DX
18" (457mm)	7118	7218	7418	7418DX
24" (610mm)	7124	7224	7424	7424DX
30" (762mm)	7130	7230	7430	7430DX
36" (914mm)	7136	7236	7436	7436DX
42" (1067mm)	7142	7242	7442	7442DX
48" (1219mm)	7148	7248	7448	7448DX

Universal Air Knife Mounting System

EXAIR's Universal Air Knife Mounting System allows easy positioning of all EXAIR Air Knives. See page 20 for details.



Order EXAIR's EFC™ electronic flow control to minimize compressed air use.

