

## GET4™ Standard Ion Air Knife™

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



### What Is The GET4 Standard Ion Air Knife?

EXAIR's Gen4 Standard Ion Air Knife offers 30% improved performance at low pressures allowing you to achieve the same or better results, which saves compressed air and money. They are an effective way to eliminate static. Like its "super" counterpart, the Gen4 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 a Gen4 Ionizing Bar to the charged surface - up to 20 feet (6.1m) away. Though not as efficient as our Gen4 Super Ion Air Knife (40:1 air amplification), the Gen4 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 Gen4 Standard Ion Air Knife is electrically powered, is shockless and has no moving parts.

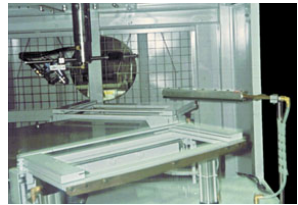
### Why The GET4 Standard Ion Air Knife?

When air consumption and noise level are not critical to the application, the lower cost makes the Gen4 Standard Ion Air Knife a good choice. (To compare the Gen4 Super Ion Air Knife and Gen4 Standard Ion Air Knife, see the performance tables on pages 111 and 117.)

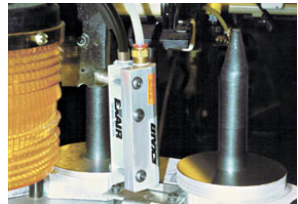
Compressed air inlets are provided on each end of the Gen4 Standard Ion Air Knife. For long spans, multiple Gen4 Standard Ion Air Knives can be mounted end-to-end. This produces an air gap at the connection end of about 2" (51mm). (If no air gap is desired, use the Gen4 Super Ion Air Knife.) Special length Gen4 Ionizing Bars up to 119" (3.02m) are available for multiple air knife applications.



The Model 8218 18" (457mm) Gen4 Standard Ion Air Knife System showers parts with static eliminating ions to prevent personnel shocks.



A Model 8212 12" (305mm) Gen4 Standard Ion Air Knife System cleans metal frames prior to powder coating.



A Model 8103 3" (76mm) Gen4 Standard Ion Air Knife removes dust from computer hard disks prior to assembly.

### 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

- 30% improved performance
- Rugged metal armored and electromagnetically shielded cable
- Integrated ground eliminates additional ground connection
- Durable stainless steel connections to Power Supply
- Reduced air consumption
- 30:1 air amplification
- Low noise level
- Effective up to 20 feet (6.1 m)
- Shockless, non-radioactive
- Compact, rugged, easy to install
- Unlimited system lengths
- Low maintenance
- Variable force and flow

## GEN4 Standard Ion Air Knife Performance

| Pressure Supply |     | Air Consumption* |       | Sound Level | Dissipates |
|-----------------|-----|------------------|-------|-------------|------------|
| PSIG            | BAR | SCFM             | SLPM  | dBA         | SECONDS    |
| 5               | 0.3 | 6                | 170   | 66          | 0.38       |
| 10              | 0.7 | 8                | 227   | 68          | 0.28       |
| 20              | 1.4 | 16               | 453   | 69          | 0.29       |
| 40              | 2.8 | 24               | 679   | 78          | 0.21       |
| 60              | 4.1 | 32               | 906   | 84          | 0.21       |
| 80              | 5.5 | 41               | 1,160 | 87          | 0.21       |
| 100             | 6.9 | 49               | 1,387 | 90          | 0.21       |

\* per foot (305mm) of length \*\* 6" (152mm) from target.  
For airflow pattern, see Standard Air Knife page 33.  
Note: Performance on lengths over 36" will vary.  
Contact an Application Engineer for details.



Kits include the Gen4 Standard Ion Air Knife, shim set, Model 7960 Gen4 Power Supply, filter separator and pressure regulator (with coupler).

## GEN4 Standard Ion Air Knife Models

**Gen4 Standard Ion Air Knife** - consists of the Standard Air Knife and Gen4 Ionizing Bar assembly. Does not include Power Supply.

**Gen4 Standard Ion Air Knife Systems** - include a Gen4 Standard Ion Air Knife and Model 7960 Gen4 Power Supply (115V, 230V, 50/60Hz).

**Gen4 Standard Ion Air Knife Kits** - include a Gen4 Standard Ion Air Knife, Model 7960 Gen4 Power Supply, shim set, filter separator and pressure regulator (with coupler).

**Gen4 Deluxe Standard Ion Air Knife Kits** - include a Gen4 Standard Ion Air Knife, EFC, Universal Mounting System, Model 7960 Gen4 Power Supply, shim set, filter separator and pressure regulator (with coupler).

| Length       | Gen4 Standard Ion Air Knife Model | Gen4 Standard Ion Air Knife Systems Model | Gen4 Standard Ion Air Knife Kits Model | Gen4 Deluxe Standard Ion Air Knife Kits Model |
|--------------|-----------------------------------|---|--|---|
| 3" (76mm)    | 8103                              | 8203                                      | 8403                                   | 8403DX  |
| 6" (152mm)   | 8106                              | 8206                                      | 8406                                   | 8406DX  |
| 9" (229mm)   | 8109                              | 8209                                      | 8409                                   | 8409DX  |
| 12" (305mm)  | 8112                              | 8212                                      | 8412                                   | 8412DX  |
| 18" (457mm)  | 8118                              | 8218                                      | 8418                                   | 8418DX  |
| 24" (610mm)  | 8124                              | 8224                                      | 8424                                   | 8424DX  |
| 30" (762mm)  | 8130                              | 8230                                      | 8430                                   | 8430DX  |
| 36" (914mm)  | 8136                              | 8236                                      | 8436                                   | 8436DX  |
| 42" (1067mm) | 8142                              | 8242                                      | 8442                                   | 8442DX  |
| 48" (1219mm) | 8148                              | 8248                                      | 8448                                   | 8448DX  |

## GEN4 Standard Ion Air Knife Specifications

The Gen4 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) armored and shielded power cable with ground and assembled bayonet connector are included. **EXAIR Model 7960 or 7961 Gen4 Power Supply (5kV) is required for bar operation.** See page 129 for details.

**Certifications:** Gen4 Ionizing Bars and Gen4 Power Supplies are UL Component Recognized 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:** Gen4 Ionizing Bars are shockless (less than 40 microamperes short circuited).

**Do not use near flammable materials or gases.**

**Materials of Construction:**

**Metal Parts:** 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 32.



Static Eliminators

Special length Gen4 Standard Ion Air Knives and unlimited system lengths are available. Please contact our factory.

## Universal Air Knife Mounting System



Order EXAIR's EFC™ electronic flow control to minimize compressed air use. See page 7 for details.