





This low cost choice provides a curtain of air for blowoff, cleaning, drying and cooling.



EXAIR's Full-Flow Air Knife is an effective way to clean, dry or cool parts, webs or conveyors. It utilizes the Coanda effect to pull in large volumes of surrounding air, producing a high flow, high velocity curtain of air. The "Full-Flow" provides airflow across the entire length. A 12" (305mm) Full-Flow Air Knife measures 12" (305mm). It has the compressed air inlet(s) on the rear.

Full-Flow Air Knife Specifications

The Full-Flow Air Knife is available in eight standard lengths of 3", 6", 9", 12", 18", 24", 30" and 36" (76, 152, 229, 305, 457, 610, 762 and 914mm). Special lengths up to 36" (914mm) and unlimited system lengths are available.

Compressed Air Inlet(s): A Full-Flow Air Knife has the compressed air inlet(s) on the rear. Inlets are available on each end at a small additional charge, however, they are not recommended for applications where uniform airflow across the length is required.

Filtration: The use of clean air is essential. Kits include an automatic drain filter with a 5 micron filter element that is sized properly for flow.

Materials of Construction: The Full-Flow Air Knife is available in either aluminum or stainless steel construction

Mounting: See page 27 for complete details on the Universal Air Knife Mounting System. The Full-Flow Air Knife can also be supported by the compressed air pipe.



Air Knife EXALT

Kits include a Full-Flow Air Knife, shim set, filter separator and pressure regulator (with coupler).

Regulation: A pressure regulator on the compressed air supply provides infinite control of flow, force, and air consumption. Kits include a pressure regulator that is sized properly for flow.

Shim Sets: A Full-Flow Air Knife has a .002" (0.05mm) gap setting. This gap is set with a shim positioned between the cap and body of the Full-Flow Air Knife. Force and flow through the Full-Flow Air Knife may be easily increased by adding shims to open the gap. Kits include a shim set. Shim sets for aluminum Full-Flow Air Knives include a .001" (0.03mm) Amber color .003" (0.08mm) Green color .004" (0.10mm) Tan color plastic shims. Shim sets for stainless steel Full-Flow Air Knives include (1) .002" (0.05mm) thick stainless steel shim.

Full-Flow Air Knife Performance with .002" (0.05mm) thick shim installed



| | Pressure Supply | | Air Consumption per Inch (25mm) | | Velocity @ 6" (152mm) from target | | Sound Level @ 3' (914mm) | Force per Inch (25mm) @ 6" (152mm) from target | |
|---|--------------------|-----|---------------------------------|------|--------------------------------------|------|-----------------------------|---|-------|
| | PSIG | BAR | SCFM | SLPM | FPM | M/S | dBA | Ozs | Grams |
| П | 20 | 1.4 | 1.1 | 31 | 3,000 | 15.2 | 64 | 0.4 | 11 |
| П | 40 | 2.8 | 1.8 | 51 | 5,000 | 25.4 | 72 | 1.0 | 28 |
| П | 60 | 4.1 | 2.4 | 68 | 7,500 | 38.1 | 76 | 1.6 | 45 |
| П | 80 | 5.5 | 3.1 | 88 | 10,000 | 50.8 | 80 | 2.3 | 65 |
| J | 100 | 6.9 | 3.8 | 108 | 12,000 | 61.0 | 83 | 2.9 | 82 |

12" (305mm) Full-Flow Air Knife tested





Full-Flow Air Knife



A series of Full-Flow Air Knives "float" layers of plastic film in the confined space of the machine.

Full-Flow Air Knife Dimensions

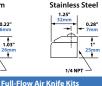




Full-Flow Air Knife Only

Airflow

1/4 NP



| | Aluminum Model | Type 303SS Model |
|----|-------------------|---------------------|
| 1) | 2603 | 2603SS |
| n) | 2606 | 2606SS |

| Length | Model | Model |
|-------------|-------|--------|
| 3" (76mm) | 2603 | 2603SS |
| 6" (152mm) | 2606 | 2606SS |
| 9" (229mm) | 2609 | 2609SS |
| 12" (305mm) | 2612 | 2612SS |
| 18" (457mm) | 2618 | 2618SS |
| 24" (610mm) | 2624 | 2624SS |
| 30" (762mm) | 2630 | 2630SS |
| 36" (914mm) | 2636 | 2636SS |

Type 303SS Airflow Aluminum Length Model Model 3" (76mm) 2803 280355 6" (152mm) 2806 2806SS 9" (229mm) 2809 2809SS 12" (305mm) 2812 2812SS 18" (457mm) 2818 281855 24" (610mm) 2824 2824SS 30" (762mm) 2830 283055 36" (914mm) 2836 283655

Kits include a Full-Flow Air Knife. shim set, filter separator and pressure regulator (with coupler).

at EXAIR.com

Deluxe Full-Flow Air Knife Kits

Kits include a Full-Flow Air Knife, EFC, Universal Mounting System, shim set, filter separator and pressure regulator (with coupler).

| Airflow Length | Aluminum Model | Type 303SS Model |
|-------------------|-------------------|---------------------|
| 3" (76mm) | 2803DX | 2803SSDX |
| 6" (152mm) | 2806DX | 2806SSDX |
| 9" (229mm) | 2809DX | 2809SSDX |
| 12" (305mm) | 2812DX | 2812SSDX |
| 18" (457mm) | 2818DX | 2818SSDX |
| 24" (610mm) | 2824DX | 2824SSDX |
| 30" (762mm) | 2830DX | 2830SSDX |
| 36" (914mm) | 2836DX | 2836SSDX |

Full-Flow Air Knife Shim Sets

Shim Sets include (1) each of a .001" (0.03mm), .003" (0.08mm) and .004" (0.10mm) plastic shim. Stainless Steel Shim Sets include (1) .002" (0.05mm) thick shim.

| Airflow Length | Aluminum Model | Type 303SS Model |
|-------------------|-------------------|---------------------|
| 3" (76mm) | 2903 | 2903SS |
| 6" (152mm) | 2906 | 2906SS |
| 9" (229mm) | 2909 | 2909SS |
| 12" (305mm) | 2912 | 2912SS |
| 18" (457mm) | 2918 | 2918SS |
| 24" (610mm) | 2924 | 2924SS |
| 30" (762mm) | 2930 | 2930SS |
| 36" (914mm) | 2936 | 2936SS |

Airflow Pattern



Accessories

Model # Description

| | D C S C I P C S C I |
|------|--|
| 9001 | Auto Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM) |
| 9032 | Auto Drain Filter Separator, 1/2 NPT, 90 SCFM (2,549 SLPM) |
| 9002 | Auto Drain Filter Separator, 3/4 NPT, 220 SCFM (6,230 SLPM) |
| 9005 | Oil Removal Filter, 3/8 NPT, 15-37 SCFM (425-1,048 SLPM) |
| 9006 | Oil Removal Filter, 3/4 NPT, 50-150 SCFM (1,416-4,248 SLPM) |
| 9008 | Pressure Regulator, 1/4 NPT, 50 SCFM (1,416 SLPM) |
| 9033 | Pressure Regulator, 1/2 NPT, 100 SCFM (2,832 SLPM) |
| 9009 | Pressure Regulator, 3/4 NPT, 220 SCFM (6,230 SLPM) |
| 9020 | Solenoid Valve, 120V, 50/60Hz, 1/4 NPT, 40 SCFM (1,133 SLPM) |
| 9034 | NEMA 4/4X Solenoid Valve, 120V, 50/60Hz, 1/2 NPT, 100 SCFM (2,832 SLPM) |
| 9036 | NEMA 4/4X Solenoid Valve, 120V, 50/60Hz, 3/4 NPT, 200 SCFM (5,664 SLPM) |
| 9065 | NEMA 4/4X Solenoid Valve, 24VDC, 1 NPT, 350 SCFM (9,911 SLPM) |

Special length

Full-Flow Air Knives and unlimited system lengths are available. Magnetic bases with Stay Set™ flexible hoses are also available for smaller Full-Flow Air Knives.

Please contact our factory.

Inlets on each end are available at a small charge. This is not recommended if uniform flow is desired. Please contact one of our Application Engineers for details.

Universal Air Knife Mounting System

EXAIR's Universal Air Knife Mounting System allows for easy positioning of all EXAIR Air Knives. See page 27 for details.



