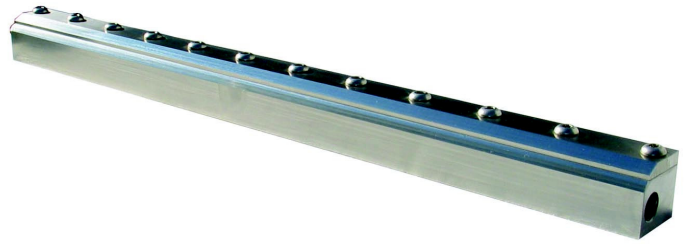
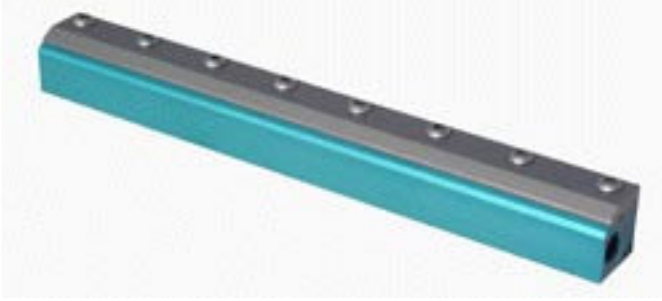


AIR-BLADE™ AIR KNIFE

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Coated Aluminum and Stainless Steel Air-Blades can reduce noise levels up to 10% and air consumption from 40% to 90% by replacing drilled pipe & open jets.

Reduce both compressed air consumption and noise levels with the easy to mount and maintain Air-Blade™ Air Knife.

The Air-Blade™ Air Knife produces a “laminar” flow of air along its length using the “Coanda” effect which “entrains” a large volume of air from the surrounding area along with the small amount of compressed air from the Air-Blade™ Air Knife to produce and output flow up to 30 times.

Payback on compressed air savings can be as soon as a few weeks in some applications.

Typical applications replace drilled pipe, or rows of nozzles used for blow-off, cleaning, drying or cooling.

Automotive: Remove water, coolant, dust, and scrap in parts manufacturing and in assembly operations. Can be used to cool parts.

Bottling: Blow off of water prior to labeling, palletizing or packaging. Moving light materials. Open and close packaging lids or tops.

Chemicals: Blow off of chemicals or water prior to labeling or packaging as with bottling operations.

Food: Remove water from product or packaging. Control application of some materials to the food product such as sugar, icing etc. Open pouches in bagging operations. Dry food.

General Manufacturing: Part ejection, air curtain barrier, dust and liquid blow off from all types of parts. Ideal for replacing fans in some cooling operations.

Metals: Coolant and other liquid removal on process lines from Aluminum, Steel, Brass or other materials. Dry metals prior to other operations such as plating or polishing. Cool metal parts prior to coating or painting.

Paper & Lumber: Paper dust removal and control. Dust removal from plywood and panel board.

Plastic: Dust and scrap blow off. Cool off molten plastic in dip molding.

Printing: Cooling to set some inks, scrap blow off, hold down labels prior to printing, cool adhesives to allow faster speeds in label applications and binding operations.

Pharmaceutical: Remove liquid prior to labeling or packaging waste removal from solid materials.

Textile: Cleaning and drying of cloth or other materials.

Features

- The Air-Blade™ Air Knife is made of an anodized aluminum body and a hard-anodized “cap”. Stainless steel models are available for high temperature and corrosive applications.
- Multiple mounting features from either the back or the ends in a compact design.
- Airflow amplification of approximately 30:1 compared to 3:1 for drilled pipe or open jets and tubes.
- Instant on-off with no moving parts, no electricity or explosion hazard.

Benefits

- Longer life in difficult environments than other models.
- Flexible mounting options and easy to fit in small places.
- Energy reduction in compressed air use up to 90% and noise reductions of 10 dbA.
- Maintenance free with output easily controlled, safe to use.

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ASTech
APPLIED SPRAY TECHNOLOGY

AIR-BLADE™ AIR KNIFE SPECIFICATIONS

The Air-Blade™ Air Knife is available in eight standard lengths: 3" (76mm), 6" (150mm), 8" (203mm), 12" (300mm), 18" (457mm), 24" (609.5mm), 30" (761mm) and 36" (914mm). Special lengths are available on special order including lengths combining several units. The Air-Blade™ Air Knife comes with a standard machined .002" (.05mm) outlet gap which will work for 90% of all applications encountered. If greater force is required, a .002" (.05mm) shim may be installed to open the gap for greater flow.

Materials of construction are either coated aluminum or high temperature stainless steel.

Effective Length	Model Number	Material of Construction	Effective Length	Model Number	Material of Construction
3"	Model 10003	Aluminum	3"	Model 10003S	Stainless
6"	Model 10006	Aluminum	6"	Model 10006S	Stainless
8"	Model 10008	Aluminum			
12"	Model 10012	Aluminum	12"	Model 10012S	Stainless
18"	Model 10018	Aluminum	18"	Model 10018S	Stainless
24"	Model 10024	Aluminum	24"	Model 10024S	Stainless
30"	Model 10030	Aluminum	30"	Model 10030S	Stainless
36"	Model 10036	Aluminum	36"	Model 10036S	Stainless

AIR-BLADE™ AIR KNIFE COMPRESSED AIR CONSUMPTION

Both Coated Aluminum and High Temperature Stainless Steel.

INLET PRESSURE	Air Consumption SCFM per in. (SLPM per 25mm) with std. .002" (.05mm) gap	Air Consumption SCFM per in. (SLPM per 25mm) with .004" (.10mm) gap (shim added)
20 PSIG 1.4 BAR	1.3 SCFM/inch 36.8	2.5 SCFM/inch 70.8
40 PSIG 2.8 BAR	2.0 SCFM/inch 56.6	4.0 SCFM/inch 113.3
60 PSIG 4.1 BAR	2.7 SCFM/inch 75.8	6.5 SCFM/inch 155.7
80 PSIG 5.5 BAR	3.4 SCFM/inch 96.3	6.7 SCFM/inch 189.7
100 PSIG 6.9 BAR	4.1 SCFM/inch 116.3	8.1 SCFM/inch 229.4
120 PSIG 8.4 BAR	4.8 SCFM/inch 135.9	9.5 SCFM/inch 269.0

Based on an Amplification Ratio of 30:1 to air flow out would be 30 times the above.

For More Information On Our Air-Blade™ Air Knife visit our web site.



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