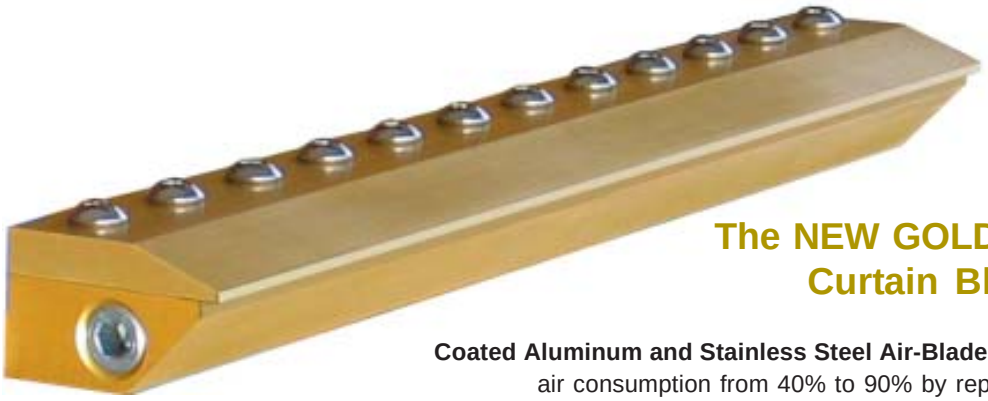
X-STREAM AIR-BLADE™ AIR KNIFE

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The NEW GOLD STANDARD in Air Knife Curtain Blow-Off Technology

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 X-Stream Air-Blade™ Air Knife.

The X-Stream 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 X-Stream 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 X-Stream Air-Blade™ Air Knife is made of a coated aluminum body and a hard-anodized “cap”. Stainless steel models are available for high temperature and corrosive applications.
- Mounting is at the back in a compact design.
- Airflow amplification of approximately 40:1 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.
- Easy to fit in small places.
- Energy reduction in compressed air use up to 90% and noise reductions of 15 dbA.
- Maintenance free with output easily controlled, safe to use.

E-Mail: sales@nex-flow.com
Web Site: www.nex-flow.com

Leading Technology Into The Future
NEX FLOW™

X-STREAM AIR-BLADE™ AIR KNIFE SPECIFICATIONS

The X-Stream 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 X-Stream 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 10003X	Aluminum	3"	Model 10003XS	Stainless
6"	Model 10006X	Aluminum	6"	Model 10006XS	Stainless
12"	Model 10012X	Aluminum	12"	Model 10012XS	Stainless
18"	Model 10018X	Aluminum	18"	Model 10018XS	Stainless
24"	Model 10024X	Aluminum	24	Model 10024XS	Stainless
30	Model 10030X	Aluminum	30"	Model 10030XS	Stainless
36"	Model 10036X	Aluminum	36"	Model 10036XS	Stainless

X-STREAM 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	1.2 SCFM/inch	2.4 SCFM/inch
1.4 BAR	34	68
40 PSIG	1.7 SCFM/inch	3.4 SCFM/inch
2.8 BAR	48	96
60 PSIG	2.3 SCFM/inch	4.6 SCFM/inch
4.1 BAR	65	130
80 PSIG	2.8 SCFM/inch	5.6 SCFM/inch
5.5 BAR	79	158
100 PSIG	3.3 SCFM/inch	6.6 SCFM/inch
6.9 BAR	93	186
120 PSIG	3.9SCFM/inch	7.8 SCFM/inch
8.4 BAR	110	220

Based on an Amplification Ratio of 40:1 to air flow out would be 40 times the above.

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

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