AIR AMPLIFIERS

NEX AIR AMPLIFIER



Zinc Alloy
Air Amplifier

The original Air Amplifier built for rugged applications. (Made by Brauer)

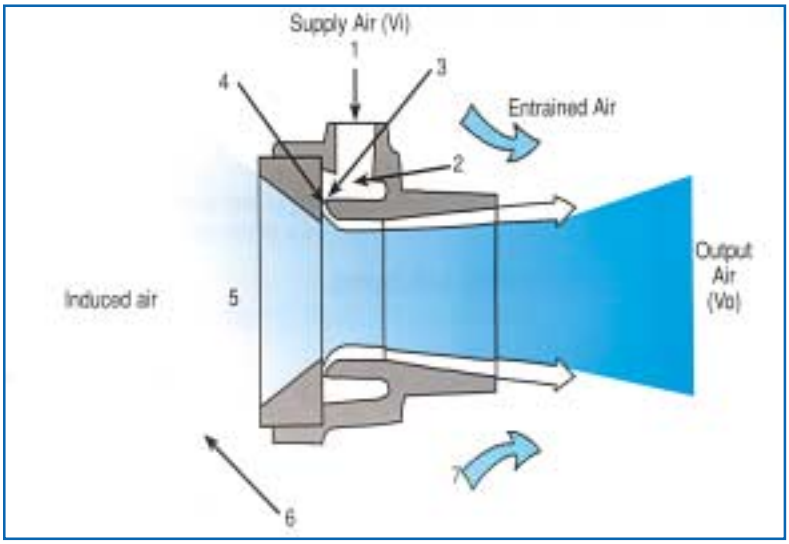
Reduce both compressed air consumption and noise levels with the easy to mount and maintain Air Amplifier and air mover.

The Air Amplifier takes energy from a small volume of compressed air to produce a high velocity, high volume, low pressure output air flow.

Air Amplifiers are quiet, efficient and can amplify flows up to 20 times their input air consumption rate.

HOW AIR AMPLIFIERS WORK

Compressed air flows from the supply inlet (1) into an annular chamber (2) and then throttled by an annular gap (3) resulting in high velocity air which adheres to the Coanda profile (4) which directs the flow outward. The low pressure area at (5) draws in a high volume of surrounding air (6) producing high volume, high velocity output flow. .



FEATURES

- The Air Amplifier is made of Zinc alloy for strength and light weight.
- High airflow amplification.
- Instant on-off with no moving parts, no electricity or explosion hazard.

BENEFITS

- Longer life in difficult environments than other models.
- Lower compressed air consumption than ejectors and venturis.
- Maintenance free with output easily controlled, safe to use.

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AIR AMPLIFIERS

ADVANTAGES OVER FANS

- More compact, simple, lightweight and portable
- Driven by air, not electricity for safety
- No moving parts – hence more safe and maintenance free
- Each end can be ducted for light conveying applications

AIR AMPLIFIER APPLICATIONS

Typical applications replace fans, used for blow-off, cleaning, drying, cooling and conveying:

Automotive: Remove water, coolant, dust, and scrap in parts manufacturing and in assembly operations. Cool enamel and water based paints in parts manufacturing, auto body shops or assembly lines.

Bottling: Blow off of water from the tops of cans or some bottles prior to labelling, ink jetting, palletizing or packaging. Conveying light materials.

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

Food: Remove water from product or packaging.

General Manufacturing: Part ejection, fume removal, dust and liquid blow off from all types of parts, conveying away waste, ideal for replacing fans in some cooling operations such as tempering glass.

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. Coolant mist removal. Boost vacuum systems to remove grinding dust. Cool steel forgings.

Paper & Lumber: Sawdust removal and control by boosting the vacuum system, dust removal. Trim removal in converting applications.

Plastic: Dust and scrap blow off. Cool moldings after extrusion, then blow off and dry prior to forming.

Printing: Cooling to set some inks, scrap blow off.

Pharmaceutical: Remove liquid prior to labelling or packaging waste removal for solid materials. Extract unfilled capsules by vacuum as they pass on a conveyor.

Textile: Scrap and trim removal on textiles to eliminate expensive vacuum systems.

AIR AMPLIFIER SPECIFICATIONS

The Air Amplifier is available in five standard outlet (outside) diameters: 3/4", 2", 4" and 8". The Air Amplifiers come with a standard .002" shim to control the compressed air exit gap which will work for 90% of all applications encountered. If greater force is required, more .002" shims or a .003" shim may be installed to open the gap for greater flow.

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AIR AMPLIFIER RATIOS (Approx.)

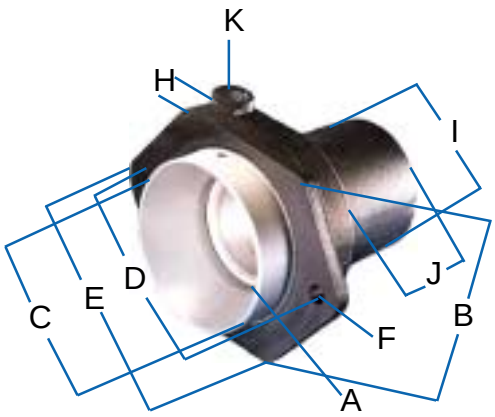
Model AM10: 6.5
Model AM20: 14.0
Model AM40: 15.0
AM75: 17.0
Model AM125: 20.0

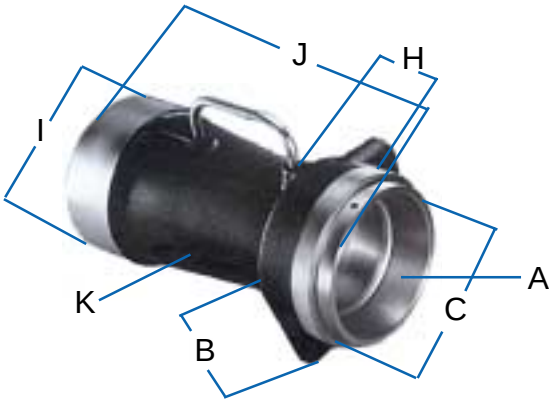
Outside Diameter Of Outlet	Model Number	Dimensions (inches) * See Below										
		* A	B	C	D	E	F	G	H	I	J	K(NPT)
3/4”	Model AM10	0.39	1.30	0.98	1.77	2.28	0.20	0.16	0.59	0.73	1.55	1/8"
1-1/4"	Model AM20	0.79	1.85	1.50	2.40	3.03	0.27	0.20	0.59	1.22	2.16	1/4”
2"	Model AM40	1.57	3.15	2.95	3.58	4.13	0.27	0.27	0.78	2.00	2.91	3/8"
4"	Model AM75	2.95	5.90	4.91	6.89	8.46	0.53	0.55	1.19	3.97	5 .90	1/2”
8"	Model AM125	4.92	10.39	7.08	-	-	-	-	0.79	7.79	16.73	3/4”

AIR AMPLIFIER MODELS



AM10







AM20



AM40



AM75



AM125

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COMPRESSED AIR CONSUMPTION OF AIR AMPLIFIERS

(Based on gap of 0.002")

INLET	MODEL NO. – COMPRESSED AIR CONSUMPTION IN SCFM				
PRESSURE	**AM10**	**AM2**	**AM40**	**AM75**	**AM125**
20 PSIG	**2.2**	**4.3**	**8.0**	**16.5**	**65.0**
40 PSIG	**3.4**	**6.1**	**11.3**	**23.2**	**90.0**
60 PSIG	**4.3**	**7.5**	**15.0**	**29.7**	**119.5**
80 PSIG	**4.9**	**9.3**	**19.3**	**37.0**	**137.5**
100 PSIG	**5.8**	**11.0**	**25.1**	**44.0**	**150.0**
120 PSIG	**6.1**	**11.8**	**26.0**	**47.0**	**152.0**

AIR AMPLIFIER DUCTING

Both the inlet (vacuum intake) and discharge ends of the Air Amplifiers may be ducted for light material and fume conveying applications. Care must be taken to avoid unnecessary restrictions that will cause back pressure or suction resistance that will reduce performance levels. Keep back pressure and resistance to under 2" of water column.



Wow! This really is the best NEX thing.

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