



Air Amplifier

Air Amplification is process which uses surrounding air and a little of Pressured / compressed air to create air flow or air Blow off. Which is known as Coanda effect. Air Amplification Process minimizes both Pressure loss and Noise Level.

The Blow off air from air amplifiers can cut through any boundary layer of heat and cool any object that is hot quite quickly depending on the material to be cooled.

Uses of Air Amplifiers

Cooling: Fast Cooling of materials like Aluminium, Brass and Copper. Slow Cooling for material

such as steel and Plastic

Conveying: Food Industries for conveying food items, such as peanuts, Groundnuts etc Conveying

cutting metal remains from the cutting position to a drum or a static place

Extractor: Fume Extractor from a welding place, where lot of dust is product. This dust is harmful

and creates lot of pollution. With the help of Fume Extractor the fumes can be sucked

and blown off in the air.

The main Product for the process of Air Amplification is Air Amplifiers. There are two types of Air Amplifiers, Fixed Air Amplifier and Adjustable Air Amplifiers. The detail description of Fixed Air Amplifier is as follows.

Fixed Air Amplifiers

Fixed Air amplifier takes energy from a small volume of compressed air to produce a high velocity, high volume, low pressure output air flow. It is easy to mount and maintains reducing both compressed air consumption and noise levels.

Fixed Air amplifiers come with a .002" (.05mm) shim to control the compressed air exit gap which will work for 90% of all applications encountered. If greater force is required, more .002" (.05mm) shims or a .003" (.07mm) shim may be installed to open the gap for greater flow.

Fixed Air Amplifier Features:

- No moving parts hence safer and maintenance free.
- Each end can be ducted for light conveying applications.
- Compact design, simple, lightweight and portable.
- Driven by air not electricity.
- Replaces fans used for blow-off, cleaning, drying, cooling and conveying.
- High airflow amplification.
- Longer life in difficult environments than competitive models.
- Lower compressed air consumption than ejectors and venturis.
- Maintenance free with output easily controlled, safe to use.

Applications of Airmasters Fixed Air Amplifiers:

Replaces fans used for blow-off, cleaning, drying, cooling and conveying.

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Application	Description
Textile:	Scrap and trim removal on textiles to eliminate expen vacuum systems.
Food:	Remove water from product or packaging.
Metals:	Coolant and other liquid removal on process lines for aluminium, steel, brass on other materials. Drying metals prior to other operations such as plating polishing. Cooling metal parts prior to coating or painting. Coolant of removal. Boost vacuum systems to remove grinding dust. Cool sterings.
Automotive:	Remove water, coolant, dust, and scrap in pa manufacturing/assembly operations. Cool enamel and watebased paints in parts manufacturing, au body shops or assembly lines.
Paper & Lumber:	Sawdust removal and control by boosting the vacuum syst dust removal. Trim removal in converting applications.
Bottling:	Blow off of water from the tops of cans, bottles prior to labell ink jetting, palletizing or packaging. Conveying light materials.
General Manufacturing	Part ejection, fumeremoval, dust and liquid blow off from types of parts, conveying away waste. Replaces fans in so cooling operations such as tempering glass.
Plastic:	Dust and scrap blow off. Cool mouldings after extrusion, then blow off and dry prio forming.
Chemicals:	Blow off of chemicals or water prior to labeling or packaging.
Printing:	Cooling to set some inks, scrap blow off.
Pharmaceutical:	Remove liquid prior to labelling or packaging waste removal solid materials. Extract unfilledapsules by vacuum as they pass on a conveyor

Models of Fixed Air Amplifiers

Trades of the arm runpings				
Model	Size (Internal Diameter)	Amplification Ratio	Material	Air Consumption at 79.7 PSI
Airmasters10	10 mm	12:1	Zinc	6.22
Airmasters20	20 mm	22:1	Zinc	9.33
Airmasters40	40 mm	30:1	Zinc	19.9
Airmasters75	75 mm	15:1	Zinc	39.83
Airmasters125	125 mm	16:1	Zinc	189.81

(See below for technical details of each model separately)

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AIR AMPLIFIERS nozzle or air movers are a simple, inexpensive devices with virtually no maintenance that can convey fumes, smoke, lightweight materials and move a high volume of air for cooling, blowoff and drying applications. AIR AMPLIFIERS are use the "coanda effect" which entrains a large amount of surrounding air using only a small amount of compressed air. The effect of the AIR AMPLIFIERS is an amplification of up to 30 times the airflow or more depending on the size of the AIR AMPLIFIERS, with reduced noise levels. Using only compressed air, the output flow and vacuum of the AIR AMPLIFIERS is easily controlled by adjusting or opening the air gap and/or inlet pressure. Either end of the AIR AMPLIFIERS may be ducted to address all kinds of applications from bringing in fresh air into an area. Be aware - If doesen't have "Made in Italy" cast into the body then it is not an original Airmasters product with the most advanced technology and performance!





Air consumption at 5.5 Bar	10 Nm ¾h
Air flow at outlet	120 Nm ¾h
Air Amplification	12:1
Sound level at 5 Bar	64dB(A)
Material	Zinc
Shims	Stainless Steel
Longer life in difficult environments than competitive models	Yes
Internal diameter	10 mm
Connection type	Female 1/8"
Blowing pattern	Concentrated
Air velocity at outlet	115 m/s
Maintenance free with output easily controlled	Yes
Max operating pressure	7 Bar
Applications	Blow off and vacuum
Meets the OSHA directives	Yes
Meet the EU machine directives	Yes

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Air consumption at 5.5 Bar	15 Nm³/h
Air flow at outlet	322 Nm³/h
Air Amplification	22:1
Sound level at 5 Bar	64dB(A)
Material	Zinc
Shims	Stainless Steel
Longer life in difficult environments than competitive models	Yes
Internal diameter	20 mm
Connection type	Female 1/4" BSP
Blowing pattern	Concentrated
Air velocity at outlet	130 m/s
Maintenance free with output easily controlled	Yes
Max operating pressure	7 Bar
Applications	Blow off and vacuum
Meets the OSHA directives	Yes
Meet the EU machine directives	Yes

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32 Nm³/h
968 Nm ³ /h
30:1
84 dB(A)
Zinc
Stainless Steel
Si
40 mm
Female 3/8" BSP
Wide
115 m/s
Yes
7 Bar
Blow off and vacuum
Yes
Yes

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Air consumption at 5.5 Bar	64 Nm³/h
Air flow at outlet	968 Nm³/h
Air Amplification	15:1
Sound level at 5 Bar	89 dB(A)
Material	Zinc
Shims	Stainless Steel
Longer life in difficult environments than competitive models	Yes
Internal diameter	75 mm
Connection type	Female 1/2"
Blowing pattern	Wide
Air velocity at outlet	34 m/s
Maintenance free with output easily controlled	Yes
Max operating pressure	7 Bar
Applications	Blow off and vacuum
Meets the OSHA directives	Yes
Meet the EU machine directives	Yes

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Air consumption at 5.5 Bar	305 Nm³/h
Air flow at outlet	4890 Nm³/h
Air Amplification	16:1
Sound level at 5 Bar	92 dB(A)
Material	Zinc
Shims	Stainless Steel
Longer life in difficult environments than competitive models	Yes
Internal diameter	125 mm
Connection type	Female 3/4"
Blowing pattern	Wide
Air velocity at outlet	44 m/s
Maintenance free with output easily controlled	Yes
Max operating pressure	7 Bar
Applications	Blow off and vacuum
Meets the OSHA directives	Yes
Meet the EU machine directives	Yes

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