

VORTEC Air Flow Amplifiers

Amplify Compressed Air Volumes Up To 60 Fold

Air Flow Amplifiers deliver a large airflow for conveying, drying, cooling or ventilation. These high flow, bladeless blowers have no moving parts so they are inherently safe.

They amplify compressed air volumes by 5 – 20 fold in ducted applications and up to 60 fold in unducted applications. They are especially useful for removing metal chips and scrap, ventilating fumes or smoke, and conveying small parts, pellets, powders and dust.

As a vacuum or blow-off device, air amplifiers are more compact and less expensive than variable-speed blowers and fans, provide instant on/off performance, and operate at low noise levels to meet OSHA requirements. Air Flow Amplifiers are easily mounted and can be used in both ducted and unducted applications. They are available in several sizes, both aluminum and stainless steel and deliver flow rates from 32 to 2300 SCFM.



Features

- Amplify compressed air volumes by 5 – 20 fold in ducted applications; and up to 60 fold in unducted applications
- Adjustable airflow and output
- Quiet – meets OSHA noise requirements
- Easily mounted, ducted and moved
- No electrical requirements at target
- Instant on/off performance
- Easily adapts for smoke and fume control, vacuum or blow off
- Available in stainless steel and aluminum

Benefits

- Increase production rates by removing smoke, dust and debris
- Improve quality through better weigh sorting of under-filled or underweight capsules and parts
- Reduce compressed air usage vs open nozzles
- Lower cost as compared to fans or blowers
- Application mobility, compared to large fans and blowers
- Improved safety and eliminate shock hazards, with no moving parts, electricity or motors

Air Amplifier Applications:

- Convey or Blow lightweight materials such as:
 - o Grain
 - o Paper trim
 - o Plastic Pellets
 - o Cloth trim
 - o Sawdust
 - o Dust
 - o Powders
 - o Small parts
 - o Capsules
 - o Plastic parts
 - o Metal chips
 - o Scrap
- Ventilate and exhaust welding fumes, soldering and machine smoke, auto exhaust, tank fumes and other gases
- Cool, clean or dry molded parts, casting, food products, etc.
- Weigh sort pharmaceuticals and other light materials



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Standard Air Flow Amplifiers



MODEL 902



MODEL 903



MODEL 904

SPECIFICATIONS

Model No.	Amplification	Air Consumption		Ducted Output		Throat Diameter		Suction End Throat Diameter		Output End Throat Diameter		Compressed Air Inlet NPT(F)
		SCFM	SLPM	SCFM	SLPM	inch	mm	inch	mm	inch	mm	
902	12:1	17	482	204	5773	0.79	20	1.75	44	1.25	32	1/4" - 18
903	19:1	25	708	475	13443	1.6	40	2.75	70	2.00	51	3/8" - 18
904	20:1	71	2012	1420	40186	3	76	5.00	127	4.00	102	1/2" - 14

Air flows are at the standard factory setting and at 100psig (6.9 bar) inlet pressure.
Flows are adjustable via shim substitution.

Adjustable Stainless Steel Air Flow Amplifiers



MODEL 901XSS



MODEL 902XSS



MODEL 903XSS

SPECIFICATIONS

Model No.	Amplification	Air Consumption		Ducted Output		Throat Diameter		Suction End Throat Diameter		Output End Throat Diameter		Compressed Air Inlet NPT(F)
		SCFM	SLPM	SCFM	SLPM	inch	mm	inch	mm	inch	mm	
901XSS	5:1	9	255	45	1358	0.39	10	1.00	25	0.79	20	1/8" - 27
902XSS	12:1	17	482	204	5773	0.79	20	1.50	38	1.19	30	1/4" - 18
903XSS	19:1	25	708	475	13443	1.57	40	2.50	64	1.97	50	3/8" - 18

All air flows are at the standard factory setting and at 100 psig (6.9 bar) inlet pressure.
Flows are adjustable via rotation of the output end "barrel".