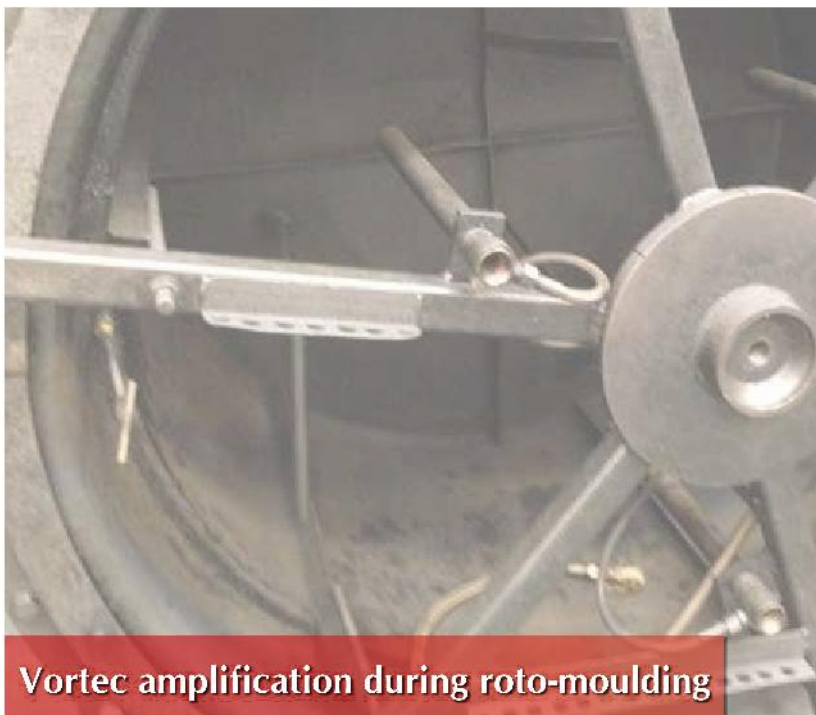


Air Flow Amplifiers

Air Flow Amplifiers deliver a large airflow for conveying, drying, cooling or ventilation. These high flow, compressed air volumes by 12 – 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 900 to 65,000 SLPM.





Vortec amplification during roto-moulding

APPLICATION

notes

When the vacuum from an electric motor blower proved ineffective, a label manufacturer opted for the strong suction of a #904 Round Transvector to pull away paper trim scrap from a die cutting operation.

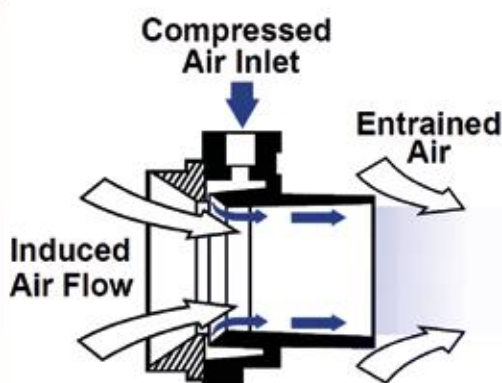
A facility producing plastic body side moldings for the automotive industry increased production by installing two #903 Transvector air amplifiers - one to remove moisture after a water bath, and the second to pull away edge trim for recycling.

Each welding station at a wrought iron furniture assembly plant is equipped with #904 Transvectors to ventilate smoke and fumes.

One of the leading pharmaceutical companies uses #902XSS Stainless Steel Transvectors to weigh sort drug capsules after filling. The precise suction lifts away only those capsules that failed the filling process, while the heavier, filled pieces move on to packaging.

CNC routers at a New England kitchen cabinet company have #903 Transvectors mounted near the router bit to vacuum sawdust and directly convey it to a reclamation container.

TECH notes



Transvectors use the impulse principle to achieve amplified airflows. When compressed air enters the Transvector, it fills a chamber that has only one exit path – a 0,051mm annular orifice. As the air is forced out of the orifice, it accelerates and collides with surrounding air entraining a great volume of free, ambient air. The result is a large volume of output air in return for a small amount of compressed air.

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

Features

- Amplify compressed air volumes by 12 – 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 connections required at target
- Instant on/off performance
- Easily adapts for smoke and fume control, vacuum or blow off
- Available in stainless steel and aluminum



902BSP

Model	902
Air Amplification	12
Throat diameter (mm)	20
Suction End Diameter (mm)	70
Ducted Output (slpm)	5.773
Material	Aluminum
Air Consumption @ 6,9 bar (slpm)	482



903BSP

Model	903
Air Amplification	19
Throat diameter (mm)	40
Suction End Diameter (mm)	70
Ducted Output (slpm)	13.443
Material	Aluminum
Air Consumption @ 6,9 bar (slpm)	708



904BSP

Model	904
Air Amplification	20
Throat diameter (mm)	76
Suction End Diameter (mm)	127
Ducted Output (slpm)	40.186
Material	Aluminum
Air Consumption @ 6,9 bar (slpm)	2012

901XSSBSP



Model	901XSS
Air Amplification	5
Throat diameter (mm)	10
Suction End Diameter (mm)	25
Ducted Output (slpm)	1.358
Material	Stainless Steel
Air Consumption @ 6,9 bar (slpm)	255

902XSSBSP



Model	902XSS
Air Amplification	12
Throat diameter (mm)	20
Suction End Diameter (mm)	38
Ducted Output (slpm)	5.773
Material	Stainless Steel
Air Consumption @ 6,9 bar (slpm)	482

903XSSBSP



Model	903XSS
Air Amplification	19
Throat diameter (mm)	40
Suction End Diameter (mm)	64
Ducted Output (slpm)	13.443
Material	Stainless Steel
Air Consumption @ 6,9 bar (slpm)	708