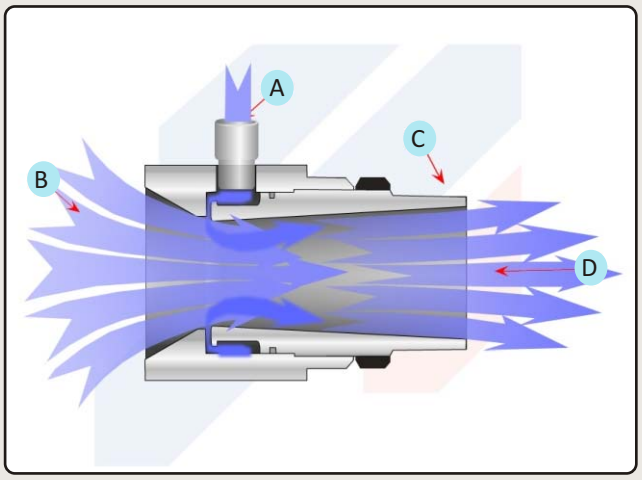
ADJUSTABLE AIR AMPLIFIER - HOW IT WORKS:

A large volume of surrounding air is induced into the Amplifier at point (A) by the action of a small amount of compressed air which enters the annular chamber at point (B) that is then throttled through a small ring Nozzle at high velocity and into the inside of the Amplifier over a coanda profile. The compressed air stream clings to the coanda profile as it enters the inside walls of the Amplifier and thereby creating a vacuum that induces the outside air converting the pressure into amplified airflow. The amplified airflow leaves at the exit at point (C). Airflow is further amplified downstream at point (D) by entraining additional air from the surroundings at the exit.



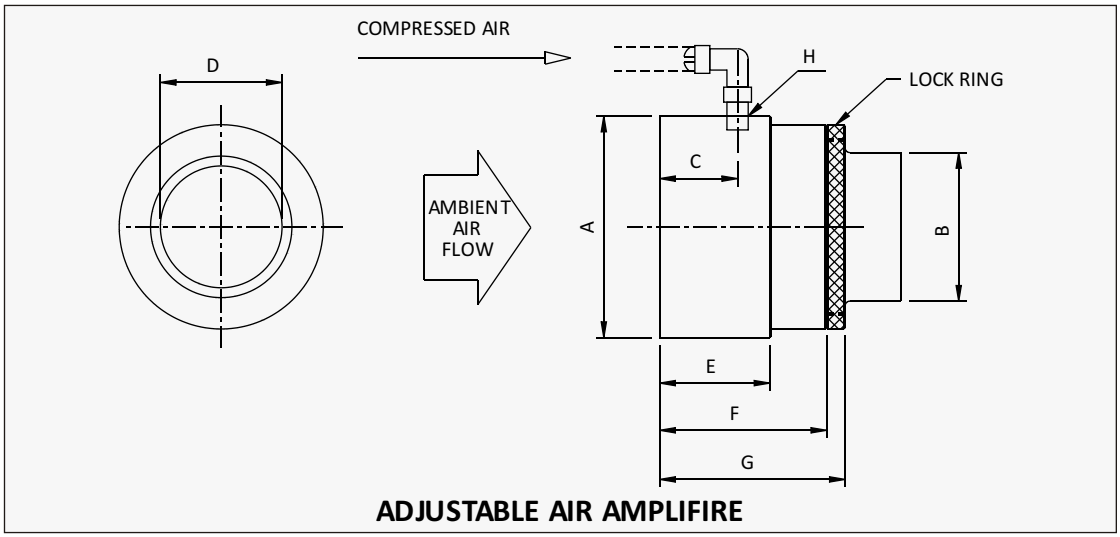
ADJUSTABLE AIR AMPLIFIER SPECIFICATIONS:

Normally set to a .002" (.05mm) gap, if greater air force is required, the gap is adjustable.

ADJUSTABLE AIR AMPLIFIER RATIOS (APPROX.)
Model 40001: 15:1
Model 40002: 16:1
Model 40003: 17:1

Model	OUTSIDE DIAMETER OF OUTLET	A	B	C	D	E	F	G	H* NPT
40001	1 1/4”	2.0	1.25	1.0	.98	1.38	1.88	2.88	1/4”
	19mm	50.8	31.8	25.4	24.9	35	47.8	73.2	
40002	2”	3.0	2.0	1.06	1.64	1.5	2.25	3.25	3/8”
	51mm	76.2	50.8	26.9	41.7	38	57.2	82.6	
40003	4”	5.5	4.0	1.5	3.02	2.6	3.5	5.0	1/2”
	101mm	140	102	38.1	76.7	66	89	127	

*BSP Threads or Adaptors can be supplied depending on country location.



ADJUSTABLE AIR AMPLIFIRE

Manufactured by: Nex Flow™ Air Products Corp. 10520 Yonge Street, Unit 35B-220 Richmond Hill, ON, Canada, L4C 3C7
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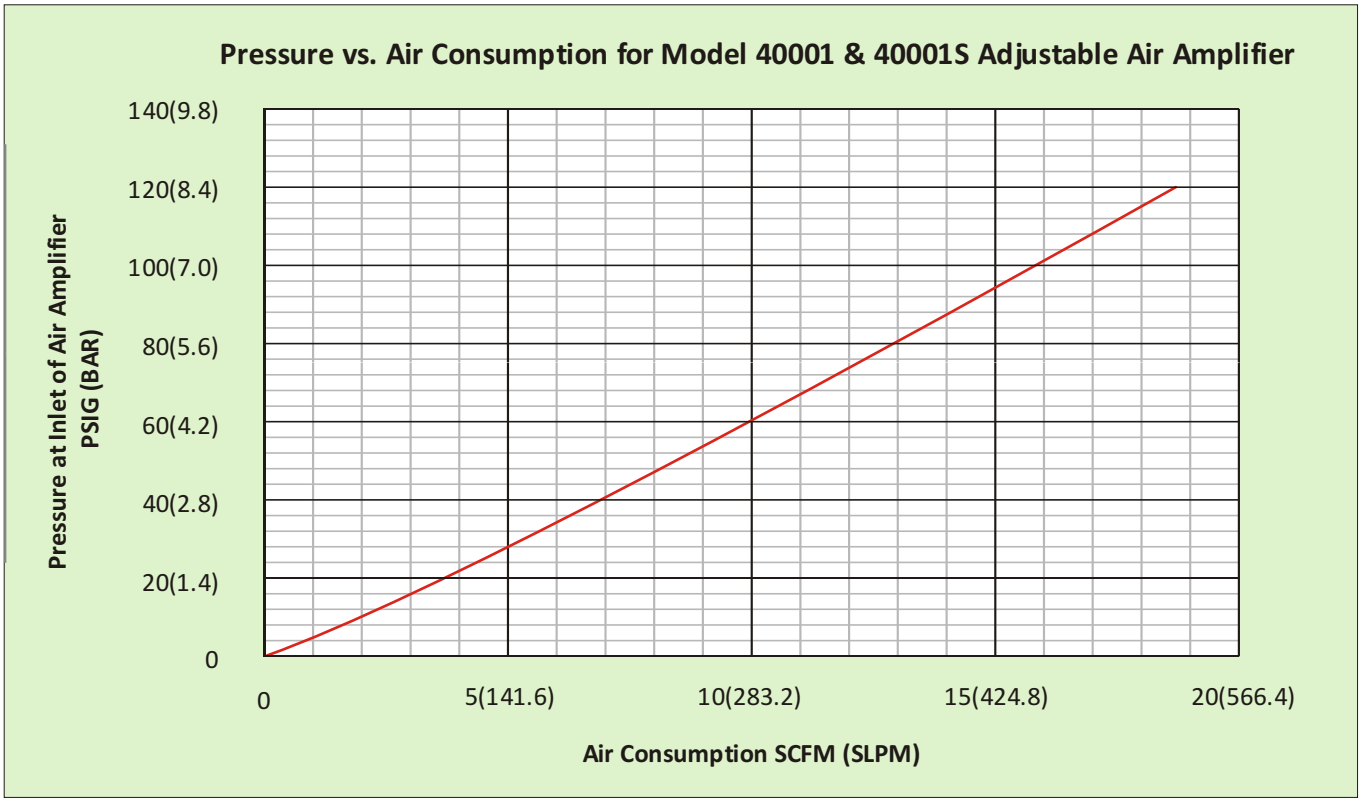
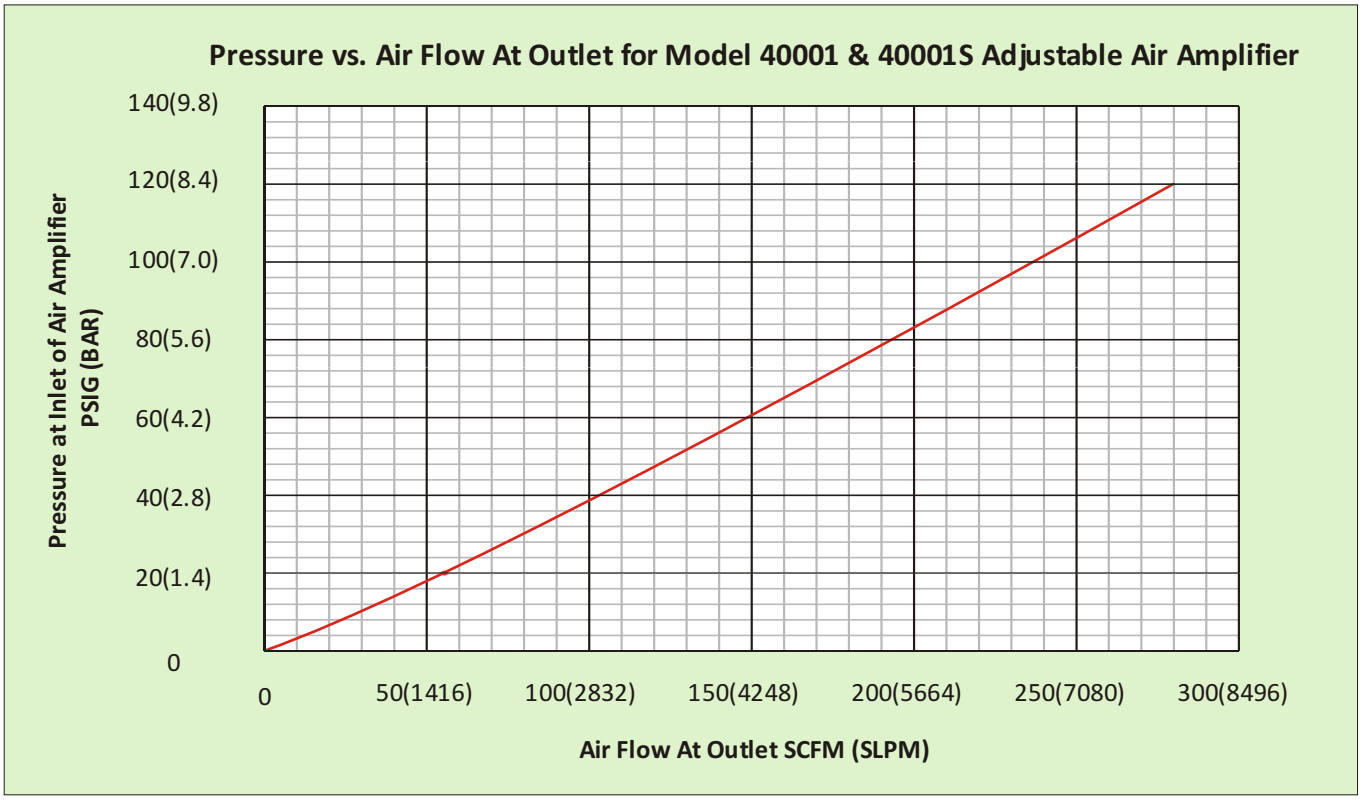
40001 & 40001S

AMPLIFICATION RATIO = 15:1 (SEE ADDENDUM - I)





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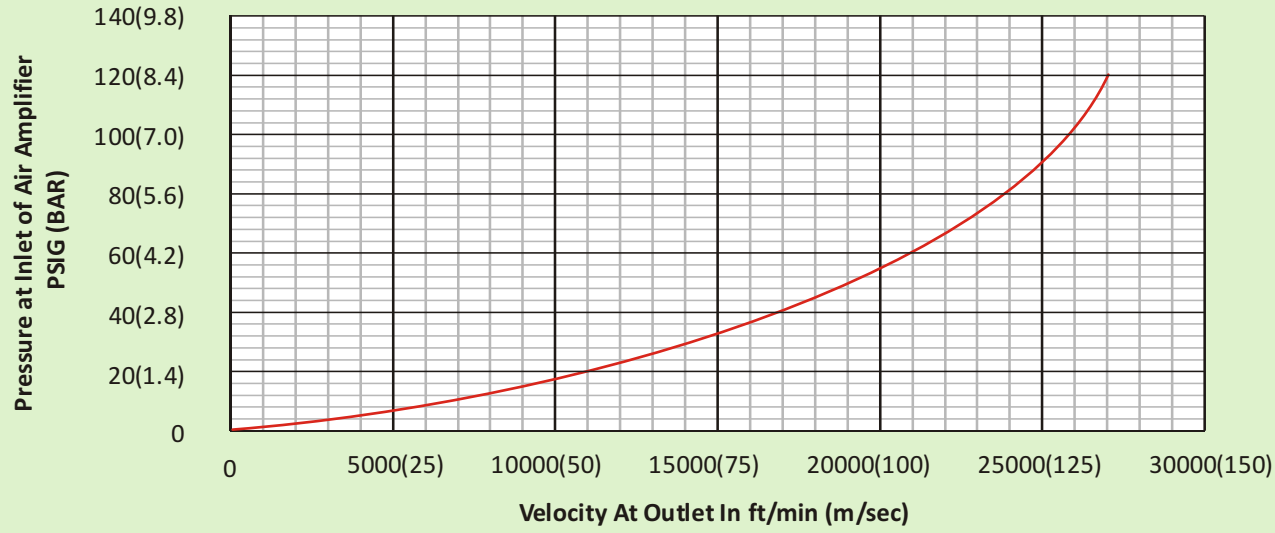
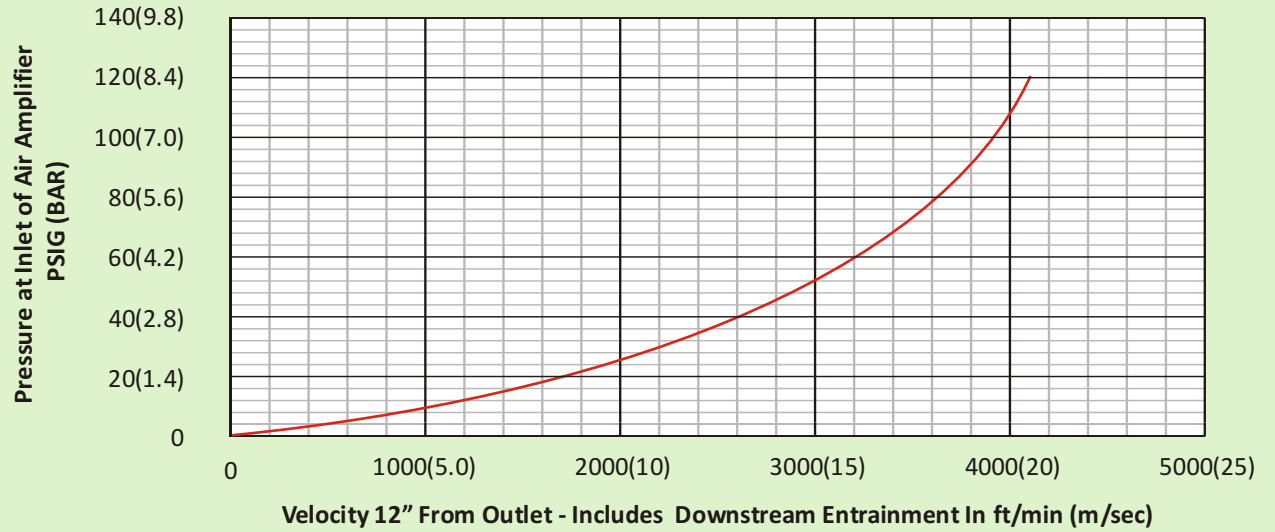
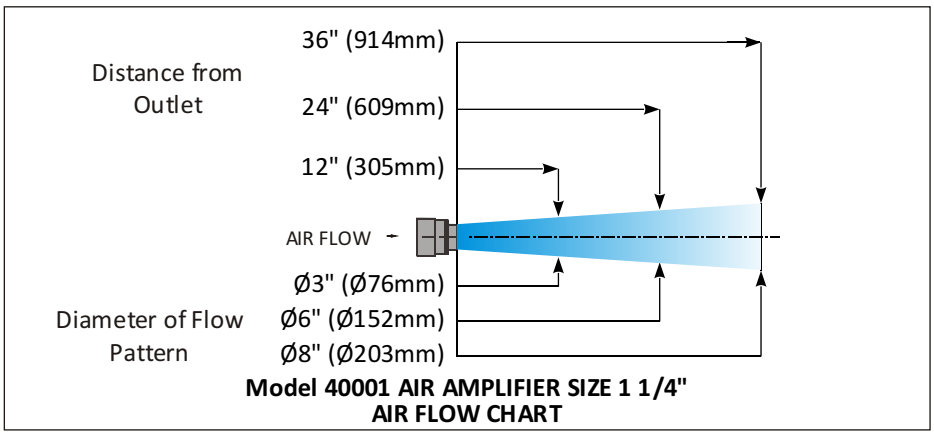
40001 & 40001S

Pressure vs. Velocity At Outlet for Model 40001 & 40001S Adjustable Air Amplifier



Pressure vs. Velocity 12" From Outlet for Model 40001 & 40001S Adjustable Air Amplifier

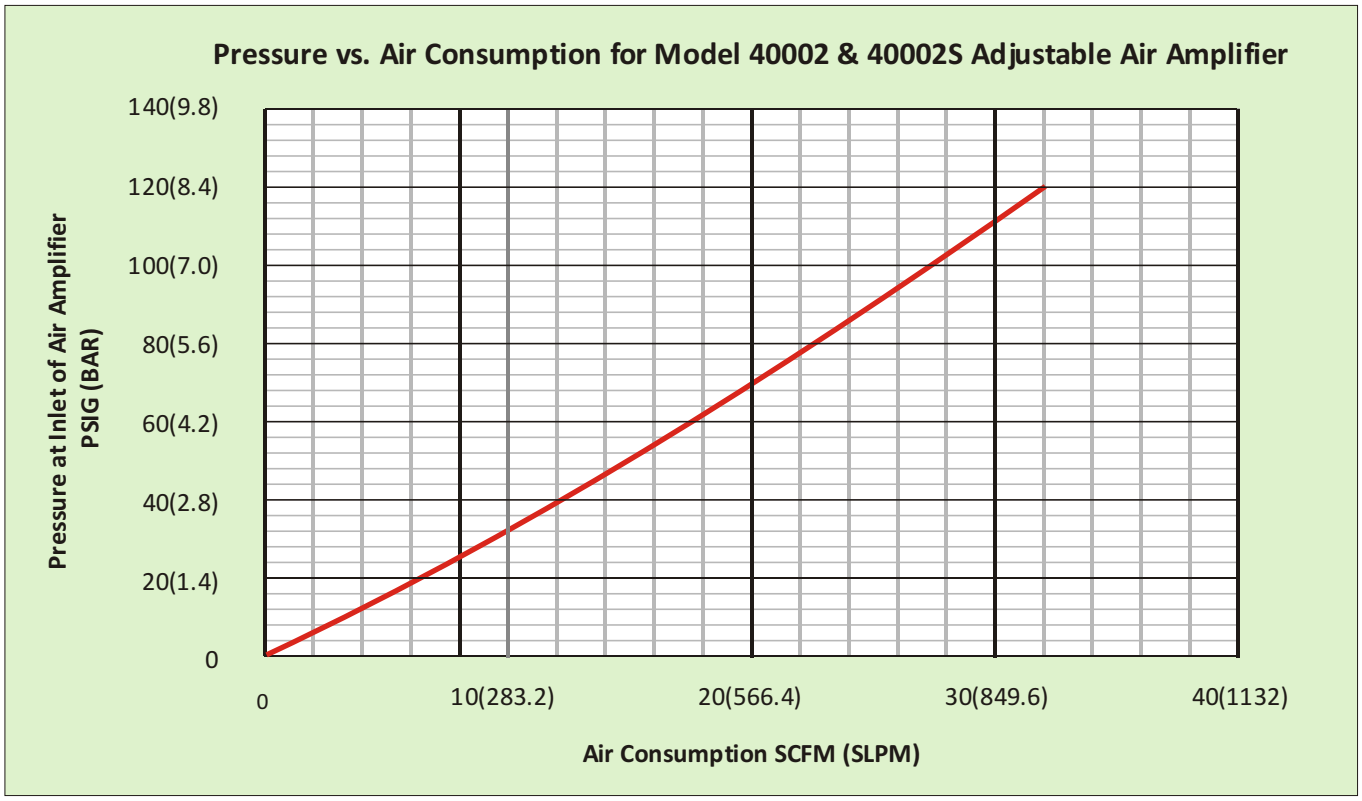


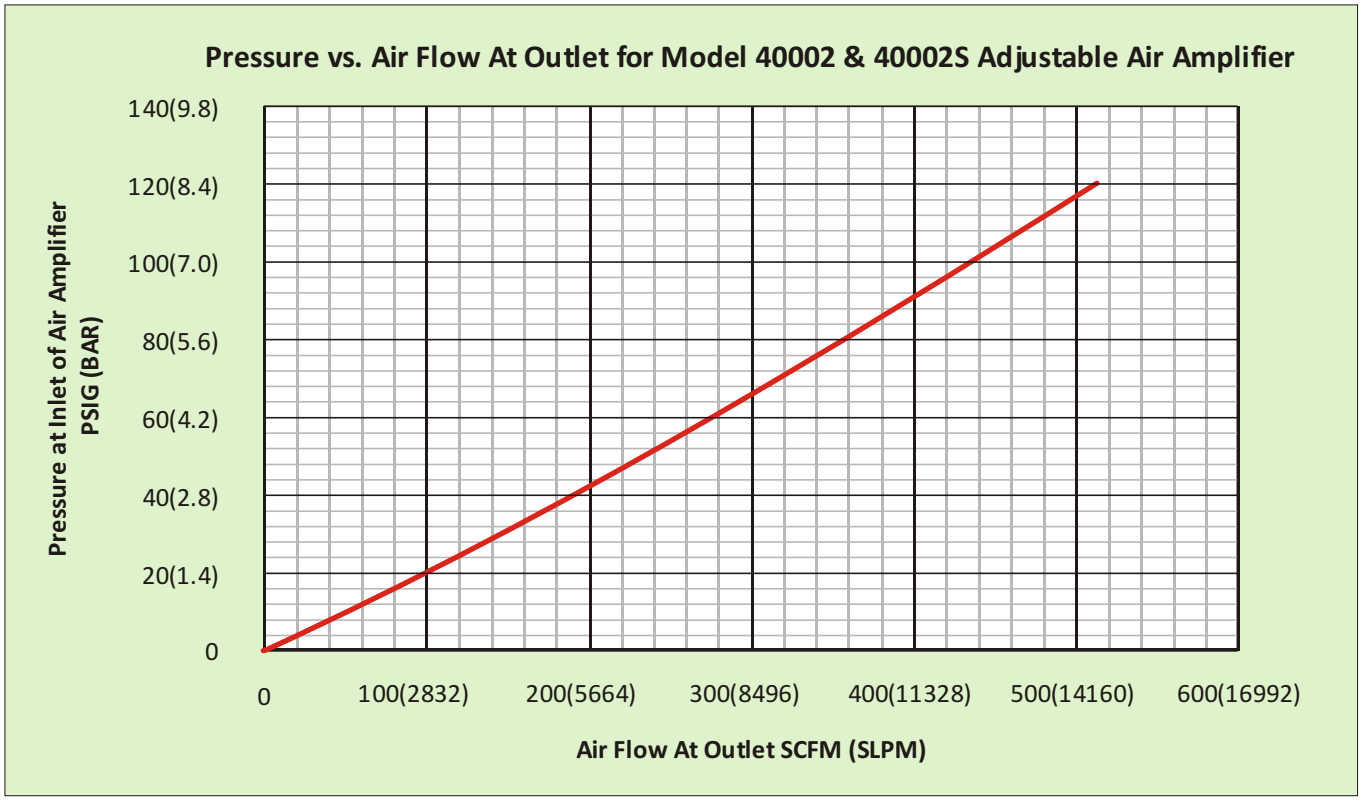


Model 40001 AIR AMPLIFIER SIZE 1 1/4"
AIR FLOW CHART

40002 & 40002S

AMPLIFICATION RATIO = 16:1 (SEE ADDENDUM - I)





AIR AMPLIFIERS

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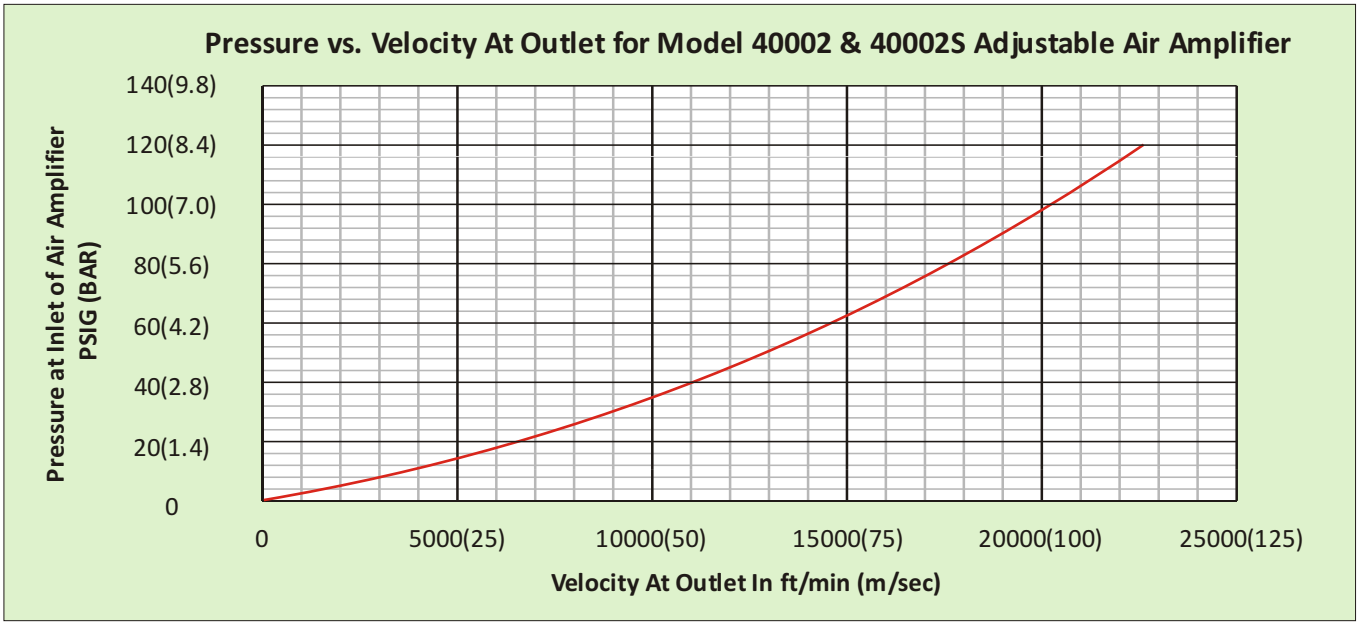
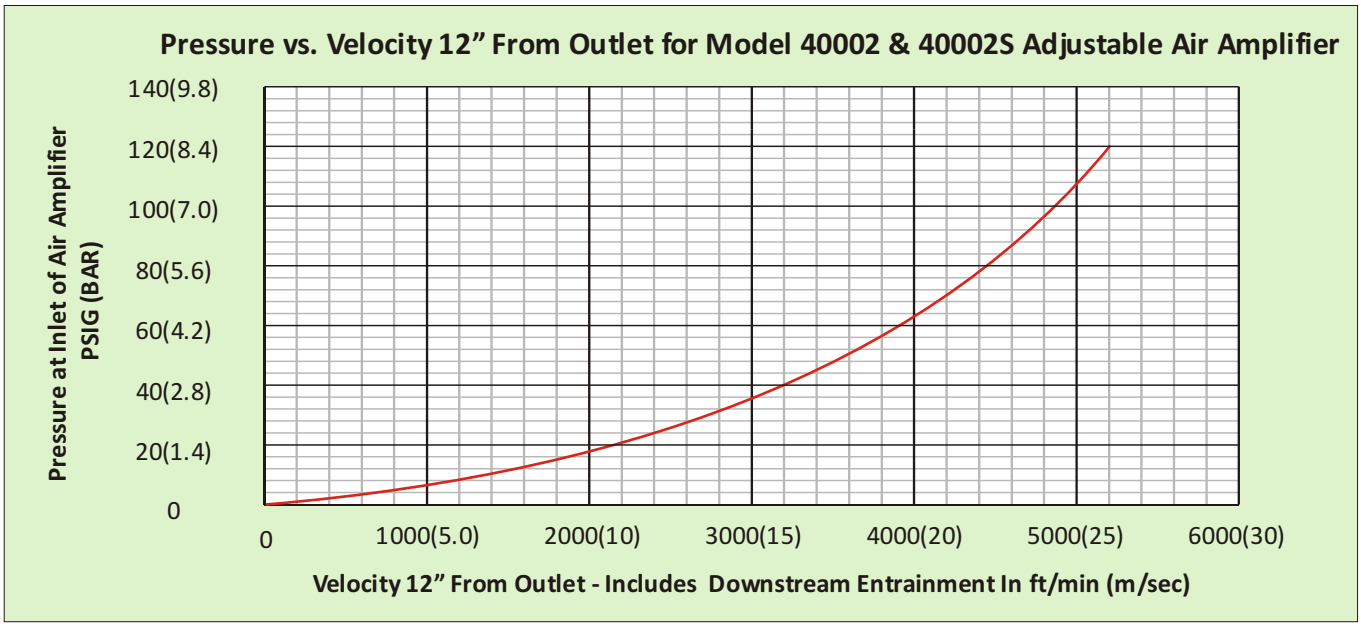
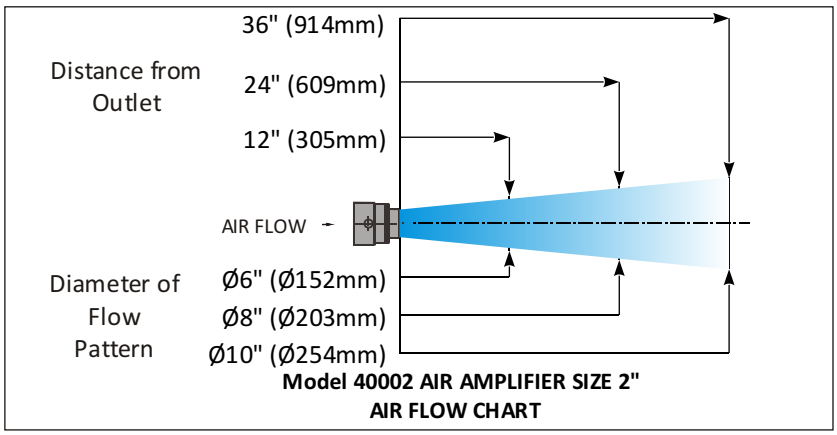
40002 & 40002S







Model 40002 AIR AMPLIFIER SIZE 2"
AIR FLOW CHART

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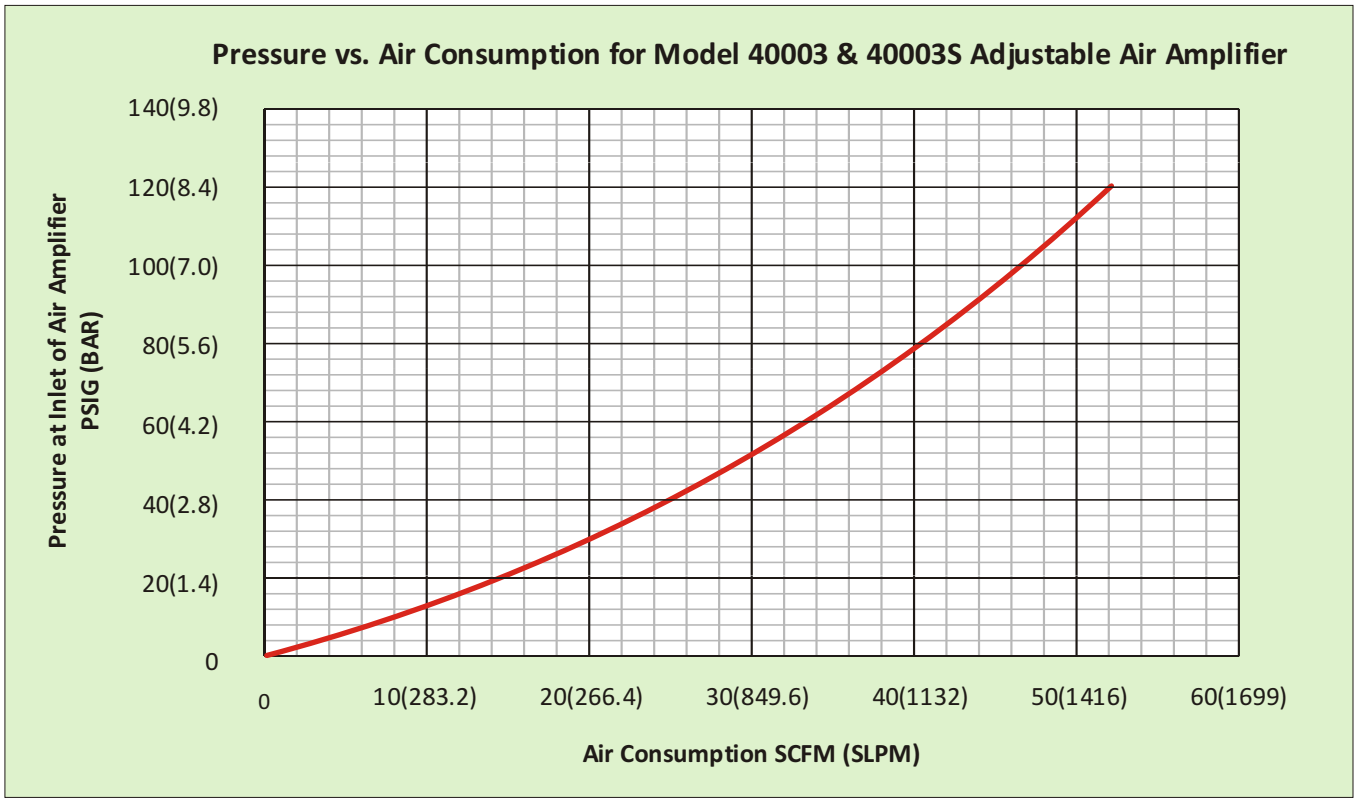
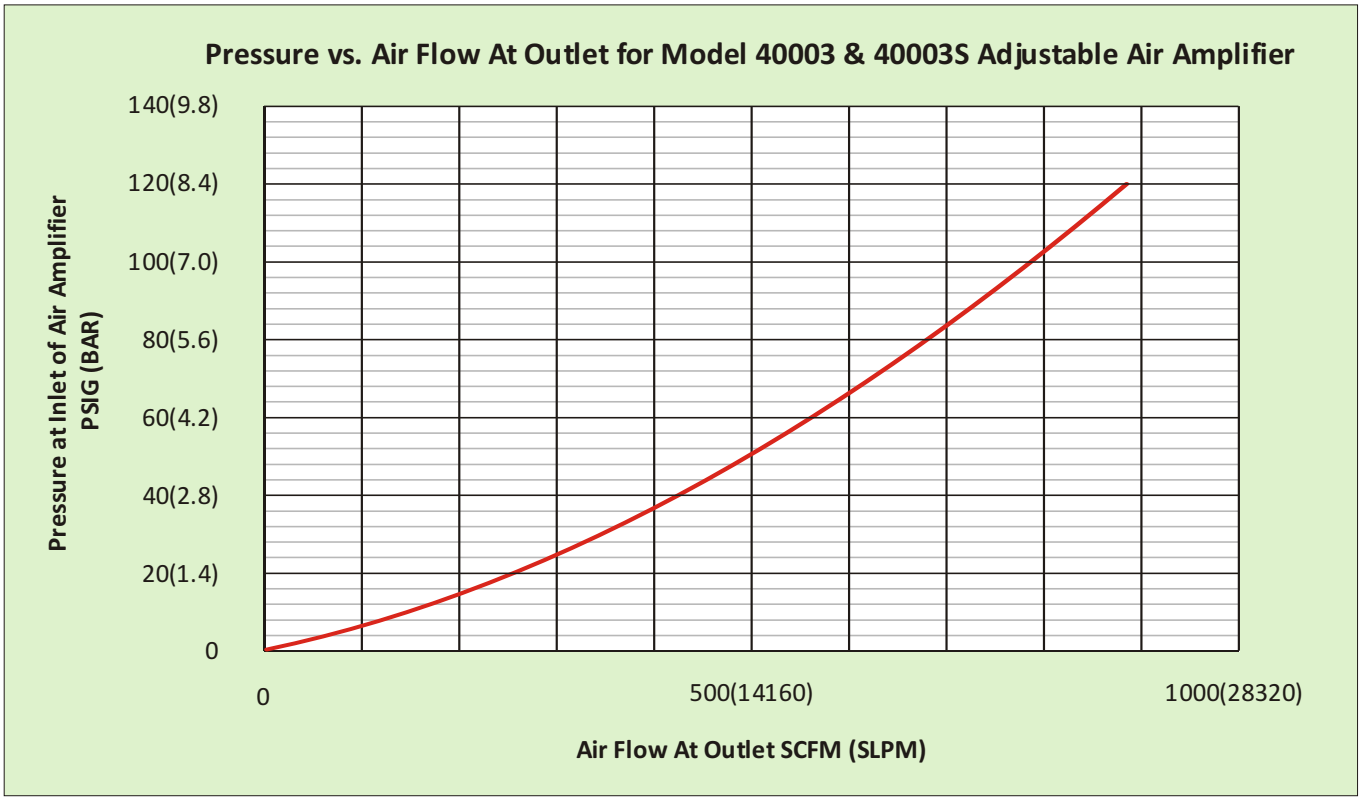
40003 & 40003S

AMPLIFICATION RATIO = 16:1 (SEE ADDENDUM - I)





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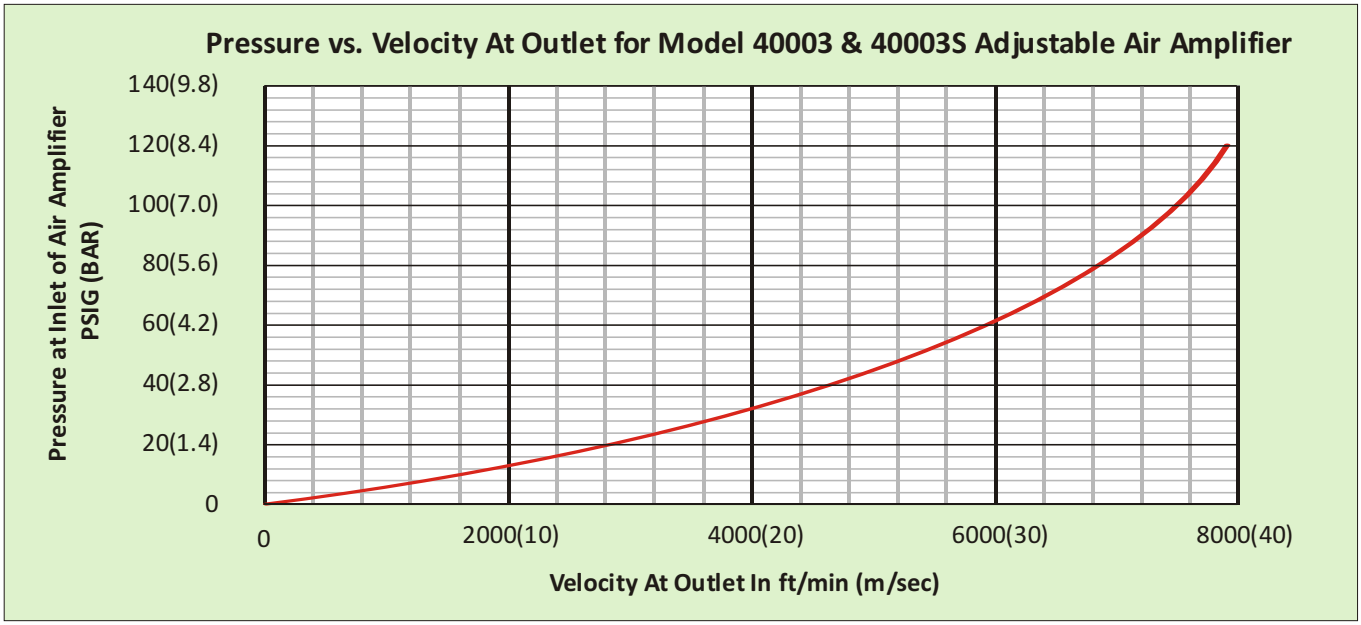
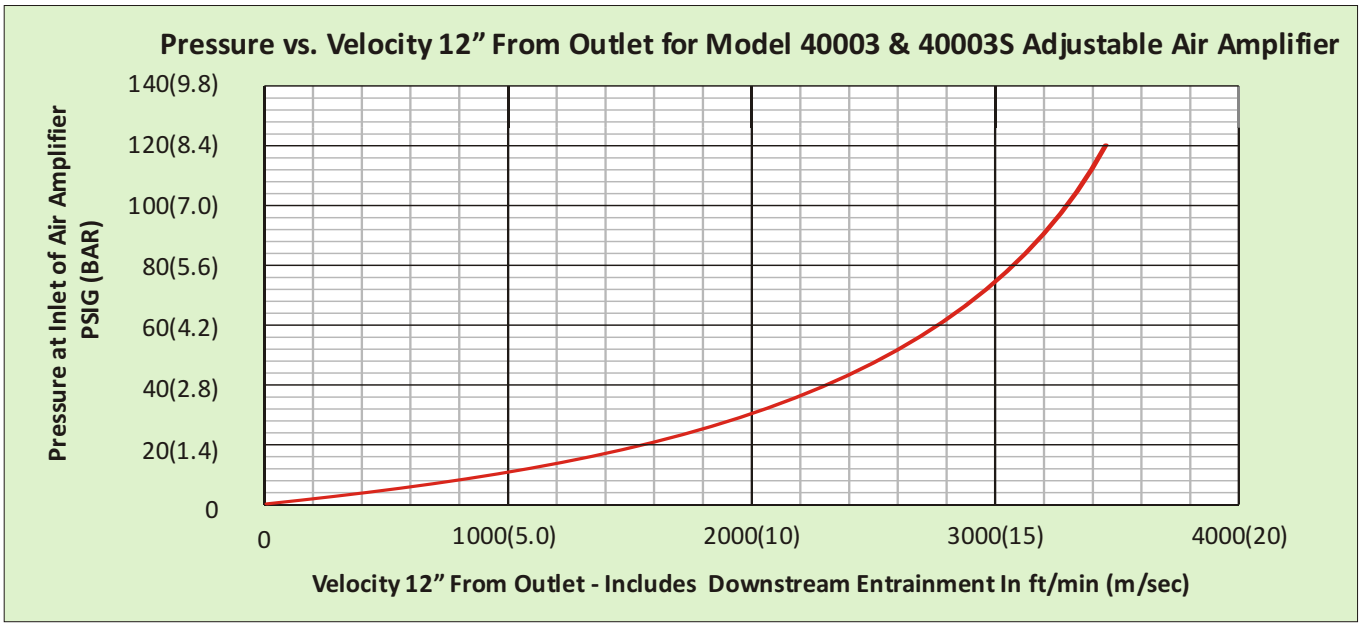
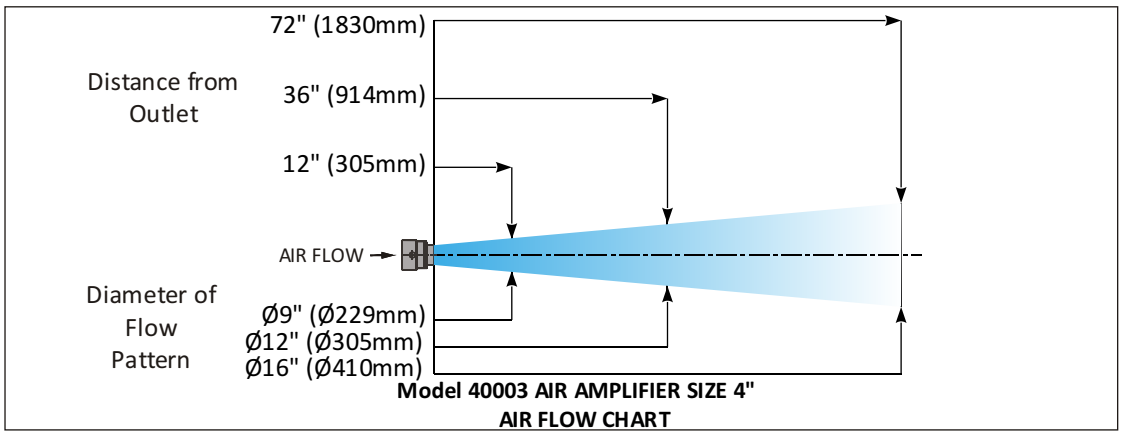
40003 & 40003S







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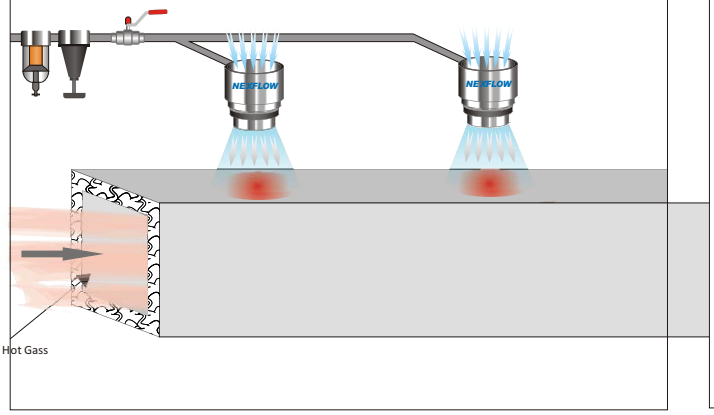
ADJUSTABLE AIR AMPLIFIERS - ALUMINUM

PART NO.	DESCRIPTION
40001	1-1/4" Adjustable Aluminum Air Amplifier
40002	2" Adjustable Aluminum Air Amplifier
40003	4" Adjustable Aluminum Air Amplifier
41001	1-1/4" Adjustable Aluminum Amplifier plus Filter with Auto Drain
41002	2" Adjustable Aluminum Amplifier plus Filter with Auto Drain
41003	4" Adjustable Aluminum Amplifier plus Filter with Auto drain
42001	1-1/4" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42002	2" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42003	4" Adj. Aluminum Amplifier plus Filter with Auto Drain plus Regulator with Gauge

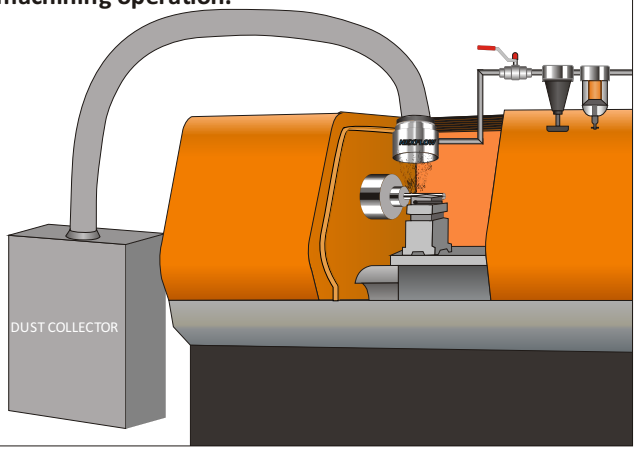
ADJUSTABLE AIR AMPLIFIERS - STAINLESS STEEL

PART NO.	DESCRIPTION
40001S	1-1/4" Adjustable Stainless Steel Air Amplifier
40002S	2" Adjustable Stainless Steel Air Amplifier
40003S	4" Adjustable Stainless Steel Air Amplifier
41001S	1-1/4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
41002S	2" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
41003S	4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain
42001S	1-1/4" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42002S	2" Adjustable Stainless Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge
42003S	4" Adjustable Aluminum Steel Amplifier plus Filter with Auto Drain plus Regulator with Gauge

Model 40002S Stainless Steel Adjustable Air Amplifiers cool hot spots on a duct where insulation has worn away until downtime can be scheduled.



Model 40001 Adjustable Air Amplifier vents dust from a machining operation.



AIR AMPLIFIERS

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Spray Booth Dry Air Gun System

Blowoff, clean, cool and dry as well as vent and exhaust with no moving parts

SPRAY BOOTH DRY AIR GUN SYSTEM:

Similar to the Model: 48001 but fixed to a handle and supplied with a filter screen on the intake end, this unit is designed especially for cooling solvent and water based paint surfaces quickly and efficiently.

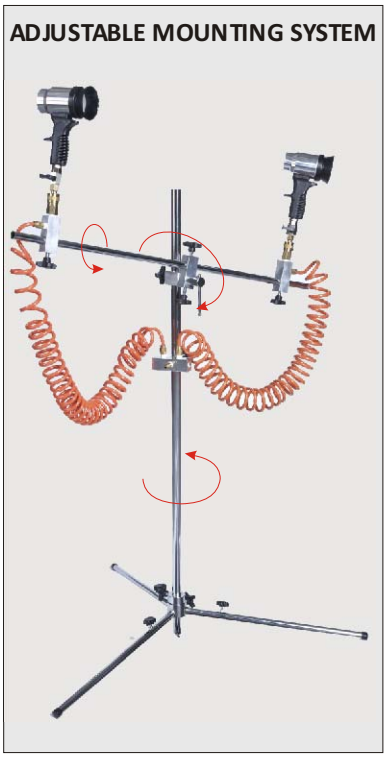
SPRAY BOOTH DRY AIR GUN SYSTEM

SPECIFICATIONS:

- Maximum inlet pressure: 10 bar (145 psig)
- Working pressure: 3-6 bar (43-87 psig)
- Air Consumption: 12.3 cfm (3501/min) at 60 psig
- Air Inlet thread ¼" NPT

FIXED MOUNTING SYSTEM

ADJUSTABLE MOUNTING SYSTEM



PART NO.	DESCRIPTION
48001	Dry Air Gun Only
48002	Fixed Mounting System
48003	Flexible Mounting System
48004	Diffuser Spare Part
48005	Spare Sieve

MOUNTING SPECIFICATION

The Mounting Brackets come in two versions: Model 48002 Fixed System complete with a sturdy stand, vertical support bar, parallel support bar and two movable supports to hold the Dry Air Guns or any other blowoff product from an air knife or amplifier to jets and nozzles. The compressed air is fed in at the bottom of the support with hoses (supplied with the system) feeding the blowoff units. Model 48003 Adjustable System is the same as the above except for the adjustable parallel support bar for totally variable support adjustments to aim the blowoff units wherever they need to be. This simple design allows for tremendous portability and flexibility of use for many blowoff applications

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