

Leading Technology Into The Future

# NEX FLOW™

Technologies Inc.

## NEX FLOW™ ADJUSTABLE AIR AMPLIFIERS

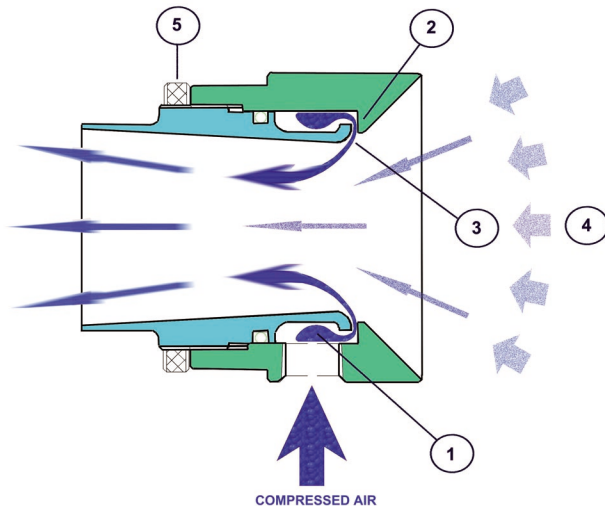
### NEX FLOW™ ADJUSTABLE AIR AMPLIFIER



**Nex Flow™ Adjustable Air Amplifier from NEX FLOW™ Technologies** for a variety of applications - either anodized aluminum or stainless steel for high temperature and corrosive environments.

- Reduce both compressed air consumption and noise levels with the easy to mount and maintain NexFlow™ Adjustable Air Amplifier and air mover.
- The NexFlow™ Adjustable Air Amplifier takes energy from a small volume of compressed air to produce a high velocity, high volume, low pressure output air flow.
- The NexFlow™ Adjustable Air Amplifier is quiet, efficient and can amplify flows up to 20 times their input air consumption rate.

### HOW NEX FLOW™ ADJUSTABLE AIR AMPLIFIERS WORK



- (1) ANNULAR AIR COLLECTION CHAMBER
- (2) ADJUSTABLE NOZZLE RING GAP
- (3) COANDA PROFILE
- (4) ENTRAINED AIR
- (5) LOCK RING FOR ADJUSTMENT

The compressed air is piped through the threaded inlet port in to the (1) annular collection chamber (2) where it forced through the nozzle ring gap at very high velocity. The air follows the coanda profile (3) creating a vacuum like effect pulling the external air (4) into the funnel converting pressure into flow resulting in a very powerful jet stream. The lock ring (5) secures the adjustment made to the nozzle ring gap.

#### Features

- The Nex Flow™ Adjustable Air Amplifiers are made of anodized aluminum for general applications or stainless steel for corrosive and high temperature use.
- 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 venturi's.
- Maintenance free with output easily controlled, safe to use.

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## Specifications

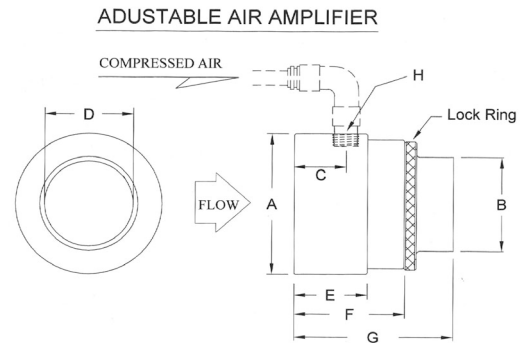
The Nex Flow™ Adjustable Air Amplifier is available in three standard outlet (outside) diameters: 1-1/4" (31mm), 2" (51mm), 4" (101mm). Other sizes available upon request. Materials are coated aluminum or stainless steel. The Nex Flow™ Adjustable Air Amplifier comes with a standard .002" (.05mm) gap that is adjustable. If greater force is required, the gap may be adjusted for greater flow.

## Air Amplification Ratios (approx.)

Nex Flow™ Adjustable Air Amplifier Model 40001: 15:1, Nex Flow™ Adjustable Air Amplifier Model 40002: 20:1, Nex Flow™ Adjustable Air Amplifier Model 40003: 25:1

## Nex Flow™ Adjustable Air Amplifier Dimensions

Outside Diameter Of Outlet	Model Number		A	B	C	D	E	F	G	H	(NPT)*
1-1/4"	40001	in	2.0	1.25	1.0	.98	1.38	1.88	2.88	1/4"	18 NPT
		mm	50.8	31.8	25.4	24.9	35	47.8	73.2		
2"	40002	in	3.0	2.0	1.06	1.64	1.5	2.25	3.25	3/8"	18 NPT
		mm	76.2	50.8	26.9	41.7	38	57.2	82.6		
4"	40003	in	5.0	4.0	1.5	3.02	2.13	2.85	5.0	1/2"	18 NPT
		mm	127	102	38.1	76.7	54.1	72.3	127		



\* BSP Adaptors Supplied Upon Request Free Of Charge

## Compressed Air Consumption Of Nex Flow™ Adjustable Air Amplifiers (Based on gap of 0.002" (.05mm))

INLET PRESSURE	COMPRESSED AIR CONSUMPTION IN SCFM		
	Model 40001	Model 40002	Model 40003
20 PSIG (1.4 BAR)	4.5 (127.4)	8.0 (226.5)	17.5 (495.6)
40 PSIG (2.8 BAR)	7.5 (212.4)	12.0 (339.8)	28.0 (792.9)
60 PSIG (4.1 BAR)	10.3 (291.7)	16.5 (467.2)	36.8 (1042.1)
80 PSIG (5.5 BAR)	12.5 (354.0)	21.5 (608.8)	48.0 (1359.3)
100 PSIG (6.9 BAR)	14.0 (396.4)	26.0 (736.2)	59.5 (1684.9)
120 PSIG (8.4 BAR)	17.5 (495.5)	30.0 (849.5)	67.0 (1897.2)

## Nex Flow™ Adjustable Air Amplifier Ducting

Both the inlet (vacuum intake) and discharge ends of the Nex Flow™ Adjustable 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.

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