

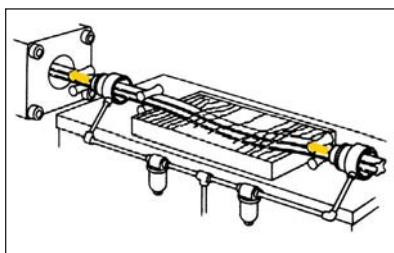


# Energy Saving Air Amplifier

Meech Air Technology Air Amplifiers provide large airflows whilst consuming a minimal volume of compressed air. The Air Amplifiers are available in three sizes and in either aluminium or stainless steel.

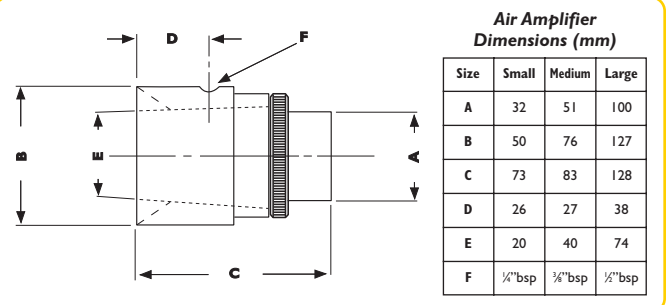
## APPLICATIONS:

- *Product redirection*
- *Product drying*
- *Air saving: reduction of energy bills*
- *Compressor demand reduction*
- *Noise reduction*
- *Product cooling*



**Extrusion - Rubber Moulding Cooling & Drying**  
Model A10015 Stainless Steel Air Amplifiers help set-up and cool this moulding after extrusion. They then blow off and dry the moulding prior to cutting.

## DIMENSIONS:



### How they work:

A tiny amount of compressed air is released through an adjustable circular slot inside the Air Amplifier, creating a 'tube' of air. The tube of air then travels on the inside of the Air Amplifier towards the front creating areas of low pressure behind and in front, that entrain ambient air at ratios of 12, 20 and 25:1 (model dependant). Air Amplifiers are health and safety compliant.

## FEATURES AND BENEFITS:

- |                   |  |
|-------------------|--|
| Innovative design | - 12 to 25:1 air amplification           |
|                   | - Up to 50dBA noise reduction            |
|                   | - Health and Safety compliant            |
| No moving parts   | - Low maintenance                        |
| Adjustability     | - Application specific set-up (no shims) |
| Locking ring      | - Holds specific set-up                  |

## PRODUCT NUMBERS AND DESCRIPTIONS:

A15008	-	Small Air Amplifier, Aluminium
A10008	-	Small Air Amplifier, Stainless Steel
A15015	-	Medium Air Amplifier, Aluminium
A10015	-	Medium Air Amplifier, Stainless Steel
A15030	-	Large Air Amplifier, Aluminium
A10030	-	Large Air Amplifier, Stainless Steel



## MEECH AIR AMPLIFIERS:

Inlet Air Pressure		size	Air Consumption		Sound Level	Thrust Level
psi	bar		cfm	lpm	dBa	Grams
20	1.4	small	8	212	52	44
		medium	13	368	59	109
		large	15	425	58	113
40	2.7	small	11	300	62	114
		medium	18	510	70	258
		large	21	595	65	268
60	4.1	small	13	368	71	213
		medium	22	623	77	419
		large	26	736	70	455
80	5.4	small	15	425	75	308
		medium	25	708	79	601
		large	30	850	73	646
100	6.8	small	17	481	78	406
		medium	28	793	86	674
		large	34	963	76	747

## Energy Saving Example

Company 'D' uses 4 x 1/8" open pipes to dry rigid extrusion as it exits a water bath. The open pipes run constantly for 12 hours per day, 6 days per week and 48 weeks per year. Company 'D' has an electricity cost of 5p/kWhr.

The total air consumption of the open pipes is 92cfm at 80psi inlet air pressure.

By replacing the 4 open pipes with a single medium size Meech Air Amplifier, Company 'D' can dramatically save compressed air and also improve drying results as the extrusion is passed through the centre of the Air Amplifier.

The medium size Meech Air Amplifier has an air consumption of 25cfm at 80psi inlet air pressure (a reduction of 73%).

## RUNNING COST COMPARISON:

Duration	1 x MAA*	4 x 1/8" OP**
Per Day	£2.81	£10.35
Per Week	£16.88	£62.10
Per Year	£810	£2,980

\* MAA - Medium Air Amplifier

\*\* OP - Open Pipe

The above table shows that an annual saving of £2,170 (£2,980 - £810), or 73% is achieved by changing to a Meech Air Amplifier.

## PERFORMANCE GRAPH:

