

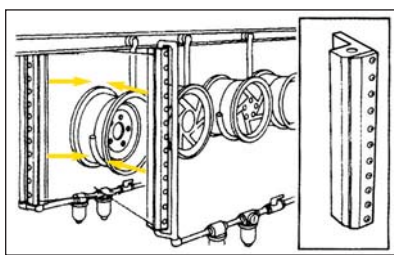


Energy Saving Air Curtain

The Air Curtain from Meech Air Technology provides an efficient blade of air for wide area blow-off and drying applications. When used to replace drilled or slotted lengths of pipe, which consume vast volumes of compressed air, the Air Curtain offers compressed air savings of up to 70%.

APPLICATIONS:

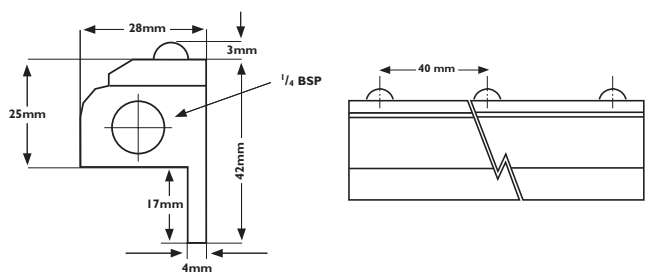
- *Product drying*
- *Product cooling*
- *Swarf contamination removal*
- *Air saving: reduction of energy bills*
- *Compressor demand reduction*
- *Noise reduction*



Powder Coating and Curing

Two Model A85024 600mm Air Curtains cool wheel rims as they exit powder coating ovens.

DIMENSIONS:



How it works:

The Air Curtain releases a small volume of compressed air through a .002" (.508mm) slot along its entire length. The 'blade' of air travels down the front face of the Air Curtain creating an area of low pressure behind it that entrains ambient air at a ratio of up to 25:1, delivering a massive airflow to the target.

FEATURES AND BENEFITS:

- | | | |
|-------------------|---|-----------------------------|
| Innovative design | - | 25:1 air amplification |
| | - | Up to 50dBA noise reduction |
| | - | Health and Safety compliant |
| No moving parts | - | Low maintenance |
| Adjustability | - | Application specific set-up |
| Flange | - | Ease of mounting |

PRODUCT NUMBERS AND DESCRIPTIONS:

Aluminium		Aluminium			
A85003	-	80mm Air Curtain	A85030	-	750mm Air Curtain
A85006	-	150mm Air Curtain	A85036	-	900mm Air Curtain
A85012	-	300mm Air Curtain	A85048	-	1200mm Air Curtain
A85018	-	450mm Air Curtain	A85055	-	1400mm Air Curtain
A85024	-	600mm Air Curtain	A85071	-	1800mm Air Curtain

Any length between 50mm and 2000mm can be manufactured to order. Hard Anodised and Stainless Steel units are available on request.



MEECH 300mm AIR CURTAIN:

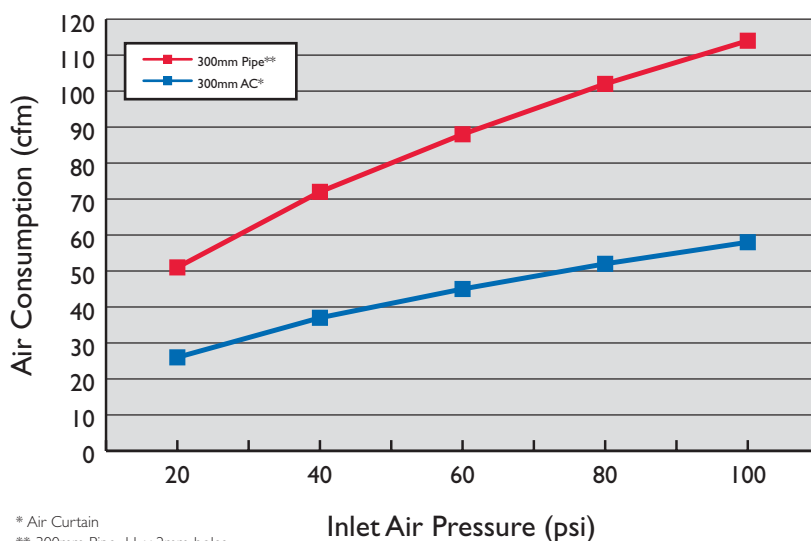
Inlet Air Pressure		Air Consumption		Sound Level	Thrust Level
psi	bar	cfm	lpm	dBa	Grams
20	1.4	26	736	52	91
40	2.7	37	1048	62	209
60	4.1	45	1274	69	379
80	5.4	52	1473	74	572
100	6.8	58	1643	77	753

300mm PIPE WITH 11x2mm DIA HOLE (25mm Spacing):

Inlet Air Pressure		Air Consumption		Sound Level	Thrust Level
psi	bar	cfm	lpm	dBa	Grams
20	1.4	51	1444	71	193
40	2.7	72	2039	75	415
60	4.1	88	2492	76	669
80	5.4	102	2889	80	972
100	6.8	114	3228	82	1049

PERFORMANCE GRAPH:

Air Curtain (300mm) 'vs' Pipe with 11 x 2mm holes (300mm)



Energy Saving Example

Company 'E' uses a home made 300mm length of pipe with 11 x 2mm holes drilled along its length at 25mm intervals to blow swarf from routed MDF panels. The home made length of pipe runs constantly for 24 hours per day, 5 days per week, 48 weeks per year. The electricity cost for Company 'E' is 5p/kWhr.

The home made length of pipe has an air consumption of 102cfm at 80psi inlet air pressure.

A 300mm Meech Air Curtain running at 80psi inlet air pressure consumes 52cfm (a 51% reduction).

RUNNING COST COMPARISON:

Duration	300mm Air Curtain	300mm Home Made Pipe
Per Day	£11.70	£22.95
Per Week	£58.50	£114.75
Per Year	£2,808	£5,508

Company 'E' can not only achieve a 51% saving in annual running costs (equivalent to £5,508 - £2,808 = £2,700), but also benefits from the consistent blade of air the Air Curtain produces compared to the 'striped' cleaning effect of the home made pipe.

