

Energy Saving High Thrust Jet

Meech Air Technology High Thrust Jets are designed to provide a high power blast of air whilst reducing compressor demand and lowering noise levels.

APPLICATIONS:

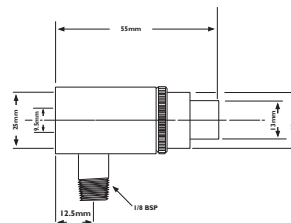
- *Air saving: reduction of energy bills*
- *Compressor demand reduction*
- *Noise reduction*
- *Swarf removal*
- *Material conveying*
- *Product drying*



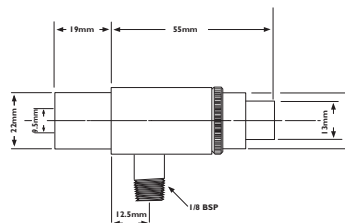
Food Processing

The Model A38038 High Thrust Jets remove water and dry cans in this soup processing plant. The adjustable thrust feature produces maximum drying to ensure peak line speed.

DIMENSIONS:



**High Thrust Jet
Model 38038**



**Inline High Thrust Jet
Model 38044**

How they work:

High Thrust Jets use a very small amount of compressed air to generate a high power blow off force. This is achieved by forcing compressed air through an adjustable internal circular slot. The high velocity air from the slot generates an area of low pressure at the rear of the jet that entrains ambient air at a ratio of 4:1. This maximises the high power blow off force whilst complying with health and safety requirements.

FEATURES AND BENEFITS:

- | | | |
|-------------------|---|-----------------------------|
| Innovative design | - | 4:1 air amplification |
| | - | Up to 50dBA noise reduction |
| | - | Health and Safety Compliant |
| No moving parts | - | Low maintenance |
| Adjustability | - | Application specific set-up |

PRODUCT NUMBERS AND DESCRIPTIONS:

A38038	-	High Thrust Jet, Brass
A38038SS	-	High Thrust Jet, Stainless Steel
A38044	-	In-Line High Thrust Jet, Brass
A38044SS	-	In-Line High Thrust Jet, Stainless Steel



MEECH HIGH THRUST JET:

Inlet Air Pressure		Air Consumption		Sound Level	Thrust Level
psi	bar	cfm	lpm	dBa	Grams
20	1.4	13	368	76	85
40	2.7	18	510	80	212
60	4.1	22	623	82	334
80	5.4	26	736	85	467
100	6.8	29	821	86	628

Energy Saving Example

Company 'C' uses two 1/4" open pipes on its check weighing station to eject products of the incorrect weight. Each time a product is ejected the open pipes blast for 60 seconds at 80psi inlet air pressure. Company 'C' operates for 5 days per week, 48 weeks per year and has two 8 hour shifts per day. On average each open pipe blasts 40 times per 8 hours. The electricity cost for Company 'C' is 5p/kWhr.

Each 1/4" open pipe consumes 93cfm at 80psi inlet air pressure.

Retrofitting Meech High Thrust Jets to each open pipe reduces the air consumption from 93cfm to 26cfm (a 73% saving).

1/4" OPEN PIPE

Inlet Air Pressure		Air Consumption		Sound Level	Thrust Level
psi	bar	cfm	lpm	dBa	Grams
20	1.4	47	1331	73	212
40	2.7	66	1869	84	477
60	4.1	81	2294	90	795
80	5.4	93	2634	94	1094
100	6.8	104	2945	97	1221

RUNNING COST COMPARISON:

Duration	2 x HTJ*	2 x 1/4" OP**
Per Day	£0.64	£2.32
Per Week	£3.20	£11.60
Per Year	£154	£557

* HTJ - High Thrust Jet
** OP - Open Pipe

Company 'C' would make an annual saving of approximately £403 (£557 - £154) or 73%. This saving is sufficient to purchase both of the Meech High Thrust Jets more than 4 times over.

PERFORMANCE GRAPH:

