

# 6000 Iontube

*The 6000 Iontube is designed to be incorporated into pneumatic transport systems to neutralise the static electricity generated in this process.*



## Benefits and Advantages

- Static electricity in pneumatic transport systems can cause a wide range of problems, including blockages, fires, separation problems in cyclones and highly charged products at the discharge end.
- The 6000 Iontube is designed to neutralise the static charge on products in pneumatic transport and conveying systems to overcome these problems.
- Static neutralisation is supplied by 1250 Ionising Bars mounted in enclosures around the circumference of the Iontube. These 1250 Bars produce ionised air which can neutralise the static charge. The number of 1250 Bars is determined by the diameter and length of the Iontube.
- The 1250 Bars are individually connected to the Power Unit, so that if one bar is damaged, only that bar needs to be replaced. This is considerably better than alternative systems where bars are daisy-chained together, if one Bar is damaged the whole daisy chain must be replaced.
- Standard 6000 Iontubes use 1m long Jacob Stainless steel tubes ( see [www.jacob-tubing.com](http://www.jacob-tubing.com)). these are available in a wide range of standard sizes with coupling devices for easy incorporation into existing pipe work.
- We can make Iontubes in other materials and sizes - please contact the factory with your requirements.

## Applications

Static electricity is generated by the interaction between the products, the air and the inner walls of the transport system. Generally plastics and very dry products are more susceptible to static generation. While plastic pipes will produce more static electricity than metal pipes, it is the nature of the product being transported which determines the severity of the problem.

The static generation is a continuous process in the transport system - so positioning of the 6000 Iontube is important. It should be positioned just before the problem area to prevent re-generation of the charge.

The 6000 Iontube can increase dramatically the efficiency of dust and product separation in cyclones; it can eliminate static charge build-up in hoppers and collection systems at the discharge end and can prevent blockages and handling problems in the system.

<b>Construction:</b>	The lontube consists of Fraser 1250 ionising bars mounted into housings welded around the circumference of a stainless steel tube.
<b>Size:</b>	Fraser offers standard DIN pipe sizes with outside diameters of 50mm, 80mm, 100mm, 150mm, 200mm, 250mm, however different sizes can be made or alternatively we can use pipes supplied or specified by the customer to ensure complete system compatibility. Please see table below.
<b>Cable on Static Eliminator Bars:</b>	2m of HT Cable is standard, unless otherwise specified. This determines the distance between the lontube and the Power Unit.
<b>Power Unit:</b>	Used with a Fraser Power Unit which converts the mains voltage to approx. 5.5kV. It is current limited with a maximum current output of 5mA for safety

### Standard Sizes:

Outside Diameter "A"	Length of Tube "B"	Number and length of static eliminators
50mm	1000mm	2 x 850mm
80mm	1000mm	2 x 850mm
100mm	1000mm	3 x 850mm
150mm	1000mm	3 x 850mm
200mm	1000mm	4 x 850mm
250mm	1000mm	4 x 850mm

