

DUST & STATIC

4200 IONISED AIR NOZZLES

The 4200 Ionised Air Nozzle System is a versatile and effective method of removing dust and static electricity.

The 4200 Ionised Air Nozzles System is used to clean and neutralise mouldings, plastic sheets, conveyors and a wide range of three-dimensional products.



- > The 4200 is very versatile. It can be made in a wide variety of shapes and sizes.
- > The quantity and position of the nozzles can be varied according to the customer's requirements with just one air connection for the whole assembly.
- > The Air nozzles amplify the compressed air by a factor of up to 20:1 for very economical performance.
- > The 4200 Nozzles produce a "cone" of ionised air for wide area coverage.
- > Also available as Single Point 4200.
- > See also Data Sheet for 1250 Bar for details of the integrated static eliminator bar.

Specification

Construction:	Aluminium body 63.5 mm x 63.5 mm x 4 mm. 1250 Static Eliminator Bar.
Length:	Available in any size from 100 mm to 4000 mm.
Cable:	Hi-Flex 30 kV screened cable with 70 mm bend radius. Standard length is 2 m - longer lengths can be specified at time of order (subject to maximum load on power unit).
Environment:	60° maximum temperature. 70% rH non-condensing max.
Safety:	Shockless operation.
Power Unit:	Use with Fraser 5.5 kV and 6 kV Power Units. See Datasheets.

How the 4200 Nozzle System works:

Ionised air produced by the 1250 static eliminator bar is transported to the object by the airflow from the nozzles.

At a gentle airflow, for example 1 - 2 Bar, the ionised air will neutralise static charge at distances up to 600 mm. If the air pressure is increased to 3-4 Bar the neutralising distance is extended to approximately 1 m. For purely static neutralisation applications, please also consider our 2050 and 2000 Ionised Air Blowers and Ionstorm Long Range Static Eliminators which have lower running costs.

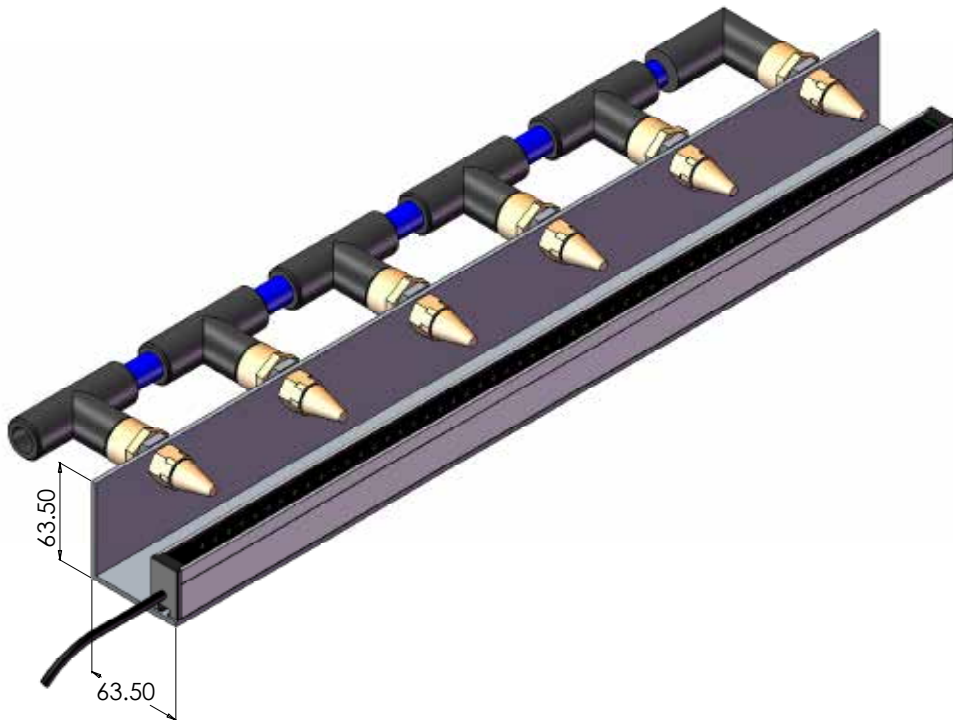
4200 Ionised Air Nozzles are mostly used for cleaning as well as static neutralisation. The airflow speed is increased by raising the air pressure to 4 - 7 Bar, depending on the distance between the product and the nozzles. The typical operating distance for cleaning applications is 100 to 200 mm.

Air Consumption (per nozzle)

Pressure	Compressed Air Consumption	Thrust
3 Bar	168 lit/min	1.2 N
4 Bar	196 lit/min	1.6 N
5 Bar	224 lit/min	1.9 N
6 Bar	248 lit/min	2.3 N
7 Bar	270 lit/min	2.7 N

Typical operating distance is 100 mm with a pressure of 5 Bar. At 100 mm the air covers 100 mm width.

4200 Dimensions



4200_DS_1ss4