4400 IONISED AIR NOZZLE

The 4400 is part of Fraser's comprehensive range of cleaning products for removing dust and static electricity from mouldings, assemblies, PCBs, automobiles, graphics, optics and medical parts.

The 4400 is a compact, highly efficient ionised air jet which consists of a 1260 Single Point Ioniser Bar and a proprietary air nozzle, mounted in a metal block.

PERFORMANCE

- Up to 6 kV of ionising power provided by Fraser HP Power Unit.
- Efficiently neutralises the static charge, allowing thorough cleaning or product separation.

ESSENTIAL QUALITIES

- Simple design optimises ionisation and blow-off power.
- Flat, concentrated airflow, similar to model 4510 but with 90° air exit for restricted spaces.
- Nozzle amplifies compressed air by up to 20:1 for economical operation.
- Low noise. OSHA compliant.
- Versatile and easy to install.

APPLICATIONS

- Widely used for product separation in automatic feeders.
- Removing dust and neutralising the static charge on small mouldings and similar parts.



SPECIFICATION

Construction:
1260 Ioniser: stainless steel tube and PTFE insert, stainless steel emitter.
Body: black anodised aluminium. Air Nozzle: stainless steel.

Cable:
Hi-Flex 30 kV screened cable with 70 mm bend diameter. Standard length is 2 m - longer lengths can be specified at time of order (subject to maximum load on power unit).

Safety:
The ionisation system is shockless and meets OSHA and other safety standards as the nozzle cannot be dead-ended.

Power Unit:
Use with Fraser 5.5 kV and 6 kV Power Units. See Datasheets.

Air Supply:
Air Pressure: max 7 Bar.
Air fitting: 1/8" female thread in black body, supplied with 6mm OD push-fit connector.

Environmental:
60 °C maximum temperature. 70 % rH non-condensing max.

Certification:
CE.

FRASER Anti-Static Techniques

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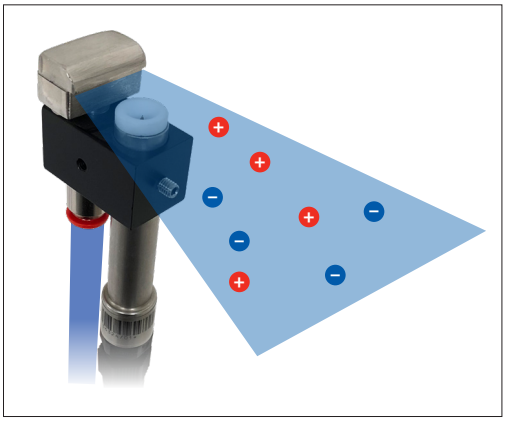
HOW IT WORKS

Ionised air from the 4400 Ionised Air Nozzle is transported at speed by the compressed air.

The ionisation kills the static charge allowing the fast air to remove the dust.



AIR CONSUMPTION

Pressure	Consumption	Noise	Thrust
2 Bar	9.0 Nm3/h	71.1 dBA	1.3 N
4 Bar	15.5 Nm3/h	78.1 dBA	2.6 N
6 Bar	22.7 Nm3/h	82.8 dBA	3.9 N
Max 7 Bar	-	-	-

DIMENSIONS

