4200SP SINGLE POINT IONISED AIR NOZZLE

The 4200SP 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 4200SP Single Point Ionised Air Nozzle transports ionised air at high speed towards the object. The ionisation kills the static charge, allowing the dust to be blown off by the fast-moving air.

PERFORMANCE

- Use with Fraser HP Power Units for up to 6 kV of ionising power which thoroughly neutralises the static charge, allowing the dust to be removed without the risk of re-attraction.
- Airflow amplifier nozzle can be used at up to 7 Bar for powerful thrust and blow-off.

ESSENTIAL QUALITIES

- Simple design optimises ionisation and blow-off power.
- Nozzle amplifies compressed air by up to 20:1 for economical operation.
- Quiet performance – under 68 dBA at 4 Bar pressure.
- All critical parts are encapsulated for a long life. All parts are replaceable if damaged.
- Completely shockproof in operation.
- Versatile and easy to install with ¼" air connection.

APPLICATIONS

- Most applications are for removing dust and neutralising the static charge that attracted it.
- For all options, see also the complete range of Fraser's contaminant removal and static neutralisation products.



SPECIFICATION

Construction:
Stainless steel body with PTFE and nylon. Stainless Steel bracket with anodised aluminium air nozzle.

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:
100 Mohm resistance for shockless operation. The 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:
Regulate down to required pressure. From 1 Bar to 7 Bar. Air must be clean and dry. Supplied with 6 mm OD push-fit connector.

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

Certification:
CE.

FRASER Anti-Static Techniques

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AIR CONSUMPTION

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.

DIMENSIONS

