4125 IONISED AIR GUN

The 4125 is our most powerful Ionised Air Gun for neutralising static electricity and removing dust and other contaminants.

It is available in two variants for top or bottom air feed.



PERFORMANCE

- 5.5 – 6 kV of ionising power.
- Best ionisation, best blow-off and best control for the most demanding cleaning and static neutralisation work.

ESSENTIAL QUALITIES

- The open construction optimises the three essential functions:
  - External ionisation gives more static neutralisation power.
  - The air nozzle amplifies the compressed air by a factor of 20:1 for high thrust and cleaning efficiency, with minimum air consumption.
  - The ergonomic full hand trigger gives the operator control without causing fatigue.
- Quiet performance and shockless operation.
- Robust and modular design allows easy maintenance and repair. All parts are replaceable, if damaged.

CONNECTIVITY AND CONTROL

- The 4125 is powered by Fraser HP Power Units, which can serve from one to four 4125 Air Guns.
- Cable tested for robot use to 9560 ETE 014800 (5 million flex cycles and 6 million torsion cycles).

APPLICATIONS

- The 4125 is used throughout industry to clean mouldings, signs, graphics, lenses, mechanical and electrical assemblies, automobile painting, mirrors, windscreens and many other applications.
- Certified for use in cleanrooms to ISO Class 6.

SPECIFICATION

Construction:
Stainless steel ionisation head and guard, PTFE ionising head, plastic handle, aluminium nozzle.

Cable:
Purpose designed Hi-Flex HT cable is flexible, light and very durable.
Standard lengths of 3 m, 5 m, 7 m and 10 m.

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 or 6 kV Power Units - see separate Datasheets.

Air Supply:
Maximum air pressure 10 Bar. Typical working pressure is 5 Bar. Air consumption at 5 Bar is 560 lit/min for continuous operation. Air must be clean and dry.

Air Connection:
1/4" BSP threaded connection with 8 mm OD push-fit air fitting as standard.
Use minimum of 6 mm ID supply pipe. If supply pipe is long use larger ID tubing.

Thrust:
At 5 Bar the thrust at a distance of 100 mm is a market leading 5.2 N (airspeed x volume which represents cleaning power).

Environmental:
At 5 Bar noise level is 74 dBA, measured at 1000 mm.

Certification:
CE.

Options:
Air feed to top or bottom of Gun.

FRASER Anti-Static Techniques

Fraser Anti-Static Techniques Ltd | Scotts Business Park, Bampton, Devon, EX16 9DN, UK
T +44 (0) 1398 331 114 E sales@fraser-antistatic.co.uk W www.fraser-antistatic.com

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HOW IT WORKS

The Ionised Air Gun consists of a hand trigger, air nozzle and an ionisation head engineered into the finger guard.

When the trigger is pulled air travels at high speed from the nozzle, picking up the ionised air produced by the ionisation head.

The ionised air is blown at high speed towards the object. The ionisation kills the static electricity, allowing the dust to be blown off.

Both the object and the dust will be static-free so preventing re-attraction.

The 4125 requires clean and dry compressed air.

MANUFACTURED WITHOUT COMPROMISING PERFORMANCE AND LONG LIFE

Maximum Ionisation
The ions are produced outside of the gun resulting in a performance which is many times more effective than traditional internal ionisation heads.

Economical Air Consumption
The amplifier nozzle magnifies compressed air by up to 20:1.

Robust Construction
Stainless steel ionisation tube. All major parts are replaceable.

Ergonomic
Four-finger trigger minimises fatigue and repetitive strains.

Air Control
Design of trigger/valve gives operator control over airflow.

Hi-Flex Cable
Designed for robot use as well as ordinary hand operation.

High Thrust
For effective cleaning.



4125-T with top air inlet



4125-B with bottom air inlet