4825 24 V DC IONISED AIRGUN

The 4825 - a powerful and highly directional airgun for neutralising static electricity and removing dust and other contaminants.

High performance from an integrated 7 kV power supply that requires only a low voltage 24 V DC input.



- The 4825 is suitable for the most demanding cleaning and static neutralising work.
- Shockless, resistively coupled tungsten emitters for unlimited life.
- Ergonomic full-hand trigger is suitable for all day use unlike designs for one or two fingers. Gives the operator excellent control of the airflow.
- Ion balance suitable for most industrial applications.
- Pulsed DC high voltage provides excellent charge decay performance even at longer distances.
- Integrated high-voltage electronics means no high-voltage cables are required.
- An integrated bi-colour LED gives immediate status indication to the operator.
- Protected against under-voltage, overload and reverse polarity.
- The air consumption is minimised by the air nozzle which amplifies the compressed air by 20:1.
- Robust construction and modular design mean the 4825 can easily be maintained or repaired.

SPECIFICATION

Construction:
Ioniser: PVC body, epoxy resin encapsulant, long-life tungsten emitters.
Airgun: Plastic handle and trigger, aluminium nozzle.

Operation:
Maximum air pressure 10 Bar. Typical working pressure is 5 Bar. Air consumption at 5 Bar is 560 L/min for continuous operation.

Power Supply:
The 4825 Gun requires a 24V Cable, or a Fraser 100 – 250 V AC, 24 V DC Power Supply and 24V extension cable. These must be ordered separately in addition to the gun. See Accessories and Spares on Page 2.

High Voltage:
+/- 7 kV supply integrated inside the ioniser.

Safety:
The ionisation system is shockless and nozzle meets OSHA and other safety standards.

Protection Classification:
IP67.

Environment:
0 to 55° C, 70 % RH non-condensing.

Noise:
At 5 Bar the noise level is 74 dBA, measured at 1 m.

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).

Air Connections and Pipe
¼ BSP threaded connection. Supply pipe should be at least 6 mm internal diameter for full performance. If the pipe is long, then a larger bore may be needed to prevent pressure drop. Air fitting supplied (unless otherwise ordered) is for 8 mm OD push-in pipe.

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HOW IT WORKS

The 4825 Ionised Airgun consists of a hand trigger, air nozzle and a DC ionisation head mounted above the air nozzle.

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 4825 requires clean and dry compressed air.

APPLICATIONS

The 4825 Ionised Airgun is used to clean mouldings, plastic sheets, automobiles, electrical assemblies, displays, even helicopters and jetfighter cockpits - wherever dust and static are a problem.

MANUFACTURED WITHOUT COMPROMISING PERFORMANCE OR LONG-LIFE

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

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

24 V DC Power Supply
Removes the need for long HV cables.

Robust Construction and Modular Design
Easily maintained and all major parts can be replaced.

Ergonomic
Four-finger trigger minimises fatigue and repetitive strains.

Air Control
The design of the trigger/valve gives the operator complete control over the airflow.

High Thrust
For effective cleaning.

ACCESSORIES AND SPARES

Description	Part No.
Fraser Ioniser Cleaning Kit	81220
3m 24V cable with 180° connector	80892
5m 24V cable with 180° connector	80930
7.5m 24V cable with 180° connector	80931
10m 24V cable with 180° connector	80932
Universal AC-DC power supply*: 100 - 250 V AC, 24 V DC output fitted with 1.5 m of cable	E3024 - PSU
10m M8 male to M8 female 4-pin extension cable for AC-DC power supply cable	81353