



**2010**





# **Model 2010 Ionised Air Blower**

## Operating Instructions

# Model 2010 Ionised Air Blower

## Installation and Maintenance Instructions

*It is important that these instructions are read and understood before attempting to install or operate this equipment.*

### System: How it works

Two 1250-S Static Eliminator Bars in the mouth of the 2010 Blower produce a large quantity of ionised air, which the internal fans blow towards the object to be neutralised. This ionised air neutralises the static charge by providing ions of the opposite polarity.



The 1250-S Bars are powered by a built in power unit for 2010.

### Checking on Delivered Equipment

The equipment leaves our factory in suitable protective packaging. Please check that it is undamaged when it arrives. If there is visible damage contact the factory or one of our distributors immediately, before carrying out any installation.

Check that the parts which have been received are the same as you have ordered.

Loose parts:            2m mains cord with IEC connector.

## Assembly of Equipment

The “L” Brackets and Knobs connect to the M8 studs welded into each side plate of the Blower body. The fibre washers go between the side plates and the “L” brackets to allow the Blower to swivel as required. When the Blower body is pointing in the required direction tighten the Screw Knobs.

## Electrical Requirements

The Blower is 230V or 115V 50/60Hz. Please check rating on label. The mains supply must have an earth.

There are axial fans of 115V 50/60Hz 46/40watt and 230V 50/60Hz 35/30watt for 230v each inside the Blower Body - one @ 305mm then every 250mm length from 500mm. The internal power unit which supplies the high voltage to the ionisation head is rated at 20VA. The fuse in the switch plate is an Anti Surge fuse rated at:

<u>115v</u>	<u>230v</u>
5.0 amp	3.0 amp

The rocker switch on the back plate of the Blower controls the power to both the fans and the power unit. It illuminates when switched on.

The fan speed controller can adjust the airflow from near zero to full flow depending on the input voltage available on site.

## Operation and Performance

Direct the ionised airflow towards the product to be neutralised. The best operational distance is between 250mm and 1000mm, although reasonable performance can be achieved at distances up to 2000mm The vertical and horizontal angle of deviation for the air flow is between 10° and 15°.

Performance specification to EOS/ESD3 standards, including decay rates, for all Fraser equipment is available from the manufacturers.

## Maintenance and Troubleshooting

**IMPORTANT: disconnect mains power before carrying out maintenance or troubleshooting.**

Dust and dirt reduce the efficiency of the ionisation bars in the mouth of the Blower. Dust, dirt and moisture allow the energy from the emitter to go to the earthed body instead of being used to create ionised air.

The Bars should be kept clean and dry. Use a tooth brush or similar device to remove dust around the emitter pins. Care is needed here as the emitter pins are sharp!

We recommend that the bars are cleaned at least monthly. If the dirt is very heavy, IPA, methylated spirits or a similar cleaning agent, which is compatible with ABS and epoxy resin, can be used.

## Troubleshooting

### Fans Not Working

The fans are rated at 50,000 hours so should have a long life. If there is a problem:

- a) Check fuse, replace if necessary - anti surge, 20mm x 5mm. Check the rating plate for details
- b) Check that there are no obstructions preventing the fans from turning. Fans should turn freely when power is not switched on.
- c) Check that fans have not been damaged.

### No Ionisation

The Model 1250 Static Eliminator Bars in the mouth of the Blower are resistively coupled, high performance, shock less static eliminators. Their output can be monitored by a Fraser 720 Static Bar Checker. A screw driver can also be used - earth the shaft against the edge of the sheet metal body of the Blower and allow the tip to approach the emitter pins; a small spark should be visible/audible.

If there is no apparent ionisation when the fans are running:

- a) Remove bars from the front and disconnect one Bar at a time from the internal power unit. We recommend that this is done by an electrician. Make sure that the Bars and body of the blower are connected by an earth wire at all times to the back plate when doing this – otherwise the Bars are not earthed and will not be shockproof.
- b) If ionisation returns with one Bar removed it shows that the disconnected Bar is faulty. Remove this Bar and return to the factory for repair or replacement.
- c) If ionisation does not return with either Bar removed it is probably the power unit at fault. Please remove and contact the factory for a replacement.

**Please note the 2010 has limited serviceable parts. The warranty will be void the customer attempts to make repairs without prior permission or approval. Only qualified technicians repair or replace parts.**

#### **Fraser Anti-Static Techniques Ltd**

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## **Health & Safety**

The ozone generated by this product is less than 0.1ppm and within internationally accepted limits. Please note, when handling and cleaning, that the emitter pins are sharp and care is needed.

## **Declaration of Conformity**

We declare that this equipment conforms to the following EC Directives:

### **89/336/EEC ( *Electromagnetic Compatibility* )**

- **EN 50081-1**
- **EN 50081-2**
- **EN 50082-1**
- **EN 50082-2**

### **72/23/EEC ( *Low Voltage Directive* )**

- **Electrical Equipment (Safety) Regulations 1994**

And entitled to display the CE Mark.

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**ÉLIMINATION DE LA POUSSIÈRE et NETTOYAGE**  
**STAUBENTFERNUNG UND REINIGUNG**



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