

2050



2050 Ionised Air Blower

Operating Instructions

2050 Ionised Air Blower

Installation and Maintenance Instructions

It is important that these instructions are read and understood before installing or operating this equipment.

System: How it Works

The 2050 Ionised Air Blower is a compact static eliminator which has been designed for use in a wide range of application in industry - from general electronics and clean room applications to plastics, packaging, food and medical applications.



Checking on Delivered Equipment

The equipment leaves our factory in suitable protective packaging. Please check that it is in good condition 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: Body of Blower with swivel mounting brackets
 Power Supply for 100V - 240V 47-63Hz + IEC connector
 Earth wire - should be connected to earth connector

Electrical

The Blower is powered by 12V DC. A 12V power supply is provided with each Blower for connection to a 100-240V AC, 47 - 63Hz supply.

Connect the AC Power Supply to the 12V socket on the reverse of the Blower and to the mains electricity supply. The supply must have an earth. The power supply has a small green light to show the presence of electricity.

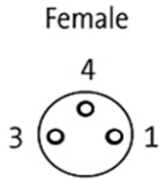
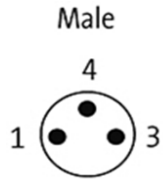
It is possible to supply 12VDC direct from the machine's controls.

Important: the 0V line must also be connected to a good earth/ground.

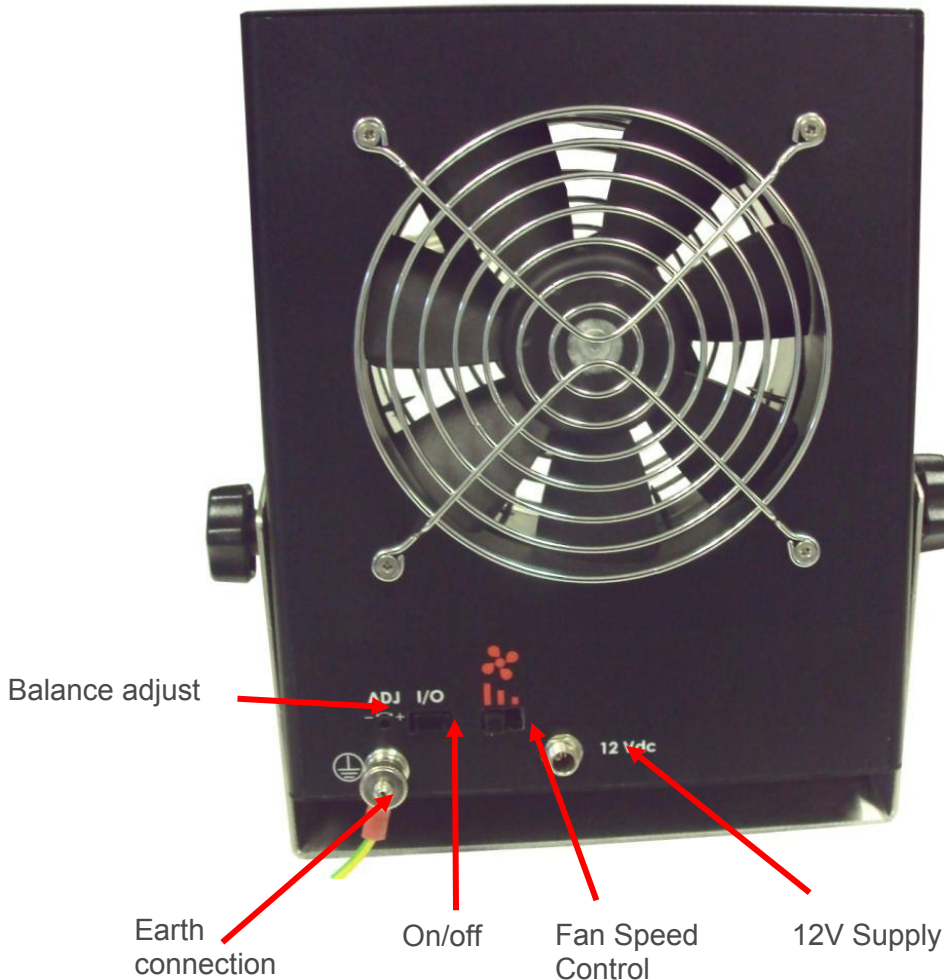
The connector on the Blower is a 3-Pole M8 male flange plug. It is compatible with 3-Pole M8 female cable mounted connectors such as:

Lumberg part number: **RKMV 4-07/xM** (x = 2,5,or 10)

Murr part number: **7000-08061-611xxx** (x = 150, 300, 500, 750)



Pin	Colour	Function
1	Brown	Not used
3	Blue	0V + Earth
4	Black	12V



Operation and Performance

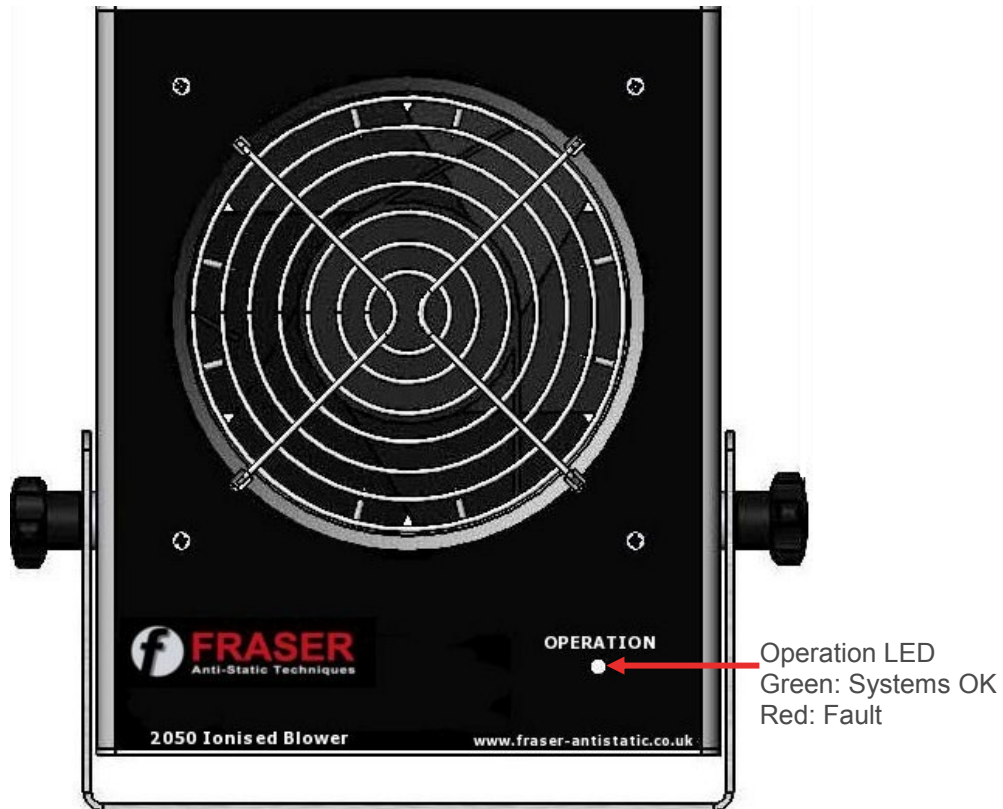
The 2050 is ready for action.

The Controls are shown above.

Operation Continued.

On-Off: Push Button. The operation LED initially turns red, then after one or two seconds it turns green to show System OK.

Fan Speed: 3 Speed selection High Speed = up to 170m³/hour
 Medium Speed = approx. 100m³/hour
 Low Speed = approx. 50m³/hour



Balance Control: The electrical balance is factory set to +/- 10V and should stay within a +/- 30V range. If balance is critical to the application, it should be checked with a charge plate monitor or similar equipment. The balance adjustment is with a 2mm screwdriver.

Technical

Noise: Low Speed 45dB
High Speed: 56dB

Humidity: max. 70% non-condensing

Maintenance and Cleaning

IMPORTANT: Do not touch the emitters whilst the unit is turned on. The 2050 Blower should be turned off before any maintenance or cleaning. There are no user serviceable parts in the 2050 Blower and it should not be opened as there is a danger of electric shock. If there is a fault or query—contact the factory or an authorised distributor.

Emitters will have a long life but must be kept clean to maintain performance and balance. Use a soft plastic brush to remove dust and contaminants from the tips.

Health and Safety

IMPORTANT: Do not touch the emitters whilst the unit is turned on. The 2050 Blower should be turned off before any maintenance or cleaning.

There are no user serviceable parts in the 2050 Blower and it should not be opened as there is a danger of electric shock. The warranty will be void if the customer opens the Blower or attempts to make repairs. If there is a fault or query - contact the factory or an authorised distributor.

The 2050 Blower contains electricity at a high voltage and should be treated with care.

The emitters in the Blower are resistively coupled with 30M Ω resistance in series with the high voltage source.

The ozone emission from the high voltage discharge is less than 0.1ppm and within International Standards.

We know of no other health hazards attributable to this equipment.

EC Declaration

We confirm that this equipment has been tested and conforms to the following EC Directives:

89/336/EEC (Electromagnetic Compatibility)

72/23/EEC (Low Voltage Directive)

and is entitled to display the CE Mark.

Fraser Anti-Static Techniques Ltd

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The Fraser range of Static Control equipment includes the following:

La gamme Fraser d'équipements de contrôle de l'électricité statique comprend les produits suivants:

Das Produktprogramm von Fraser umfasst folgende Geräte:



LONG RANGE Static Neutralisation
Neutralisation statique LONGUE DISTANCE
Statikneutralisierung auf GROSSE ENTFERNUNG



SHORT RANGE Static Neutralisation
Neutralisation statique COURTE DISTANCE
Statikneutralisierung auf KURZE ENTFERNUNG



DUST REMOVAL and CLEANING
ÉLIMINATION DE LA POUSSIÈRE et NETTOYAGE
STAUBENTFERNUNG UND REINIGUNG



PASSIVE Static Neutralisation
Désélectriseurs INDUCTIFS
PASSIVE Ionisatoren



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www.fraser-antistatic.co.uk

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