



# Operating Manual

**Model 955**  
**Fan Driven Ionising**  
**Blow Gun**



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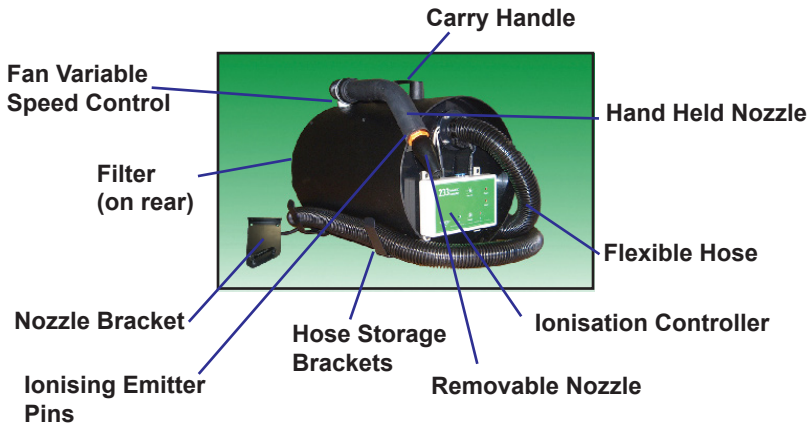
# Introduction

The Meech Model 955 is a hand held ionising blow gun for removing static charges and dust in a range of industrial applications.

## Unpacking and Inspection

The Model 955 was carefully packed at the factory in a container designed to protect it from accidental damage. Nevertheless, we recommend careful examination of the carton and contents for any damage. If damage is evident, do not destroy the carton or packing material and immediately notify the carrier of a possible damage claim. Shipping claims must be made by the consignee to the delivering carrier.

## How to use your Model 955 Ionising Blow Gun



# Operation Safety Checks

General safety and operating checks before using the Portable Model 955 Fan Driven Ionising Blow Guns:-

- Ensure that the unit can stand level on the 4 plastic feet provided.
- Ensure that the correct supply voltage is available before switching on the unit.
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- It is recommended that the unit is connected to a supply that is MCB/RCD protected.
- The on/off switch is situated behind the carrying handle on the blower unit. Press 'I' to switch the unit on, and 'O' to switch off.
- Do not remove any guarding or the flexible hose at any time, or allow objects to pass through the guard whilst the fan is rotating.
- Always switch the unit off at the mains supply and remove the plug before cleaning the appliance - do not use a pressure washer or steam washer to clean the unit.
- The unit is fitted with a standard 3-pin mains plug with a 13 amp fuse.
- There are no user serviceable parts in the fan unit.
- The 955 has a thermal cut-out device for safety purposes. With prolonged use the unit may trip out. In this instance switch the unit off and wait for a few minutes before re-use.
- Do not pull the unit by the supply cable or the hose.
- Eye protection should be used at all times when operating the unit.
- Adjustment to the air velocity can be made by turning the variable fan speed control found on the blower unit. Air velocities can be set between 75 and 150m/s to meet the application requirement.

**Note - under normal operation the air temperature at the discharge of the gun handle will be warm.**

## Static Elimination System

The 955 is pre-set at the factory. However, the following adjustments can be made to the static elimination system for specific application requirements.

There are two adjustments that can be made on the 233 controller ( found on the face of the blower unit) BALANCE, and RATE .

The BALANCE of positive and negative ion output can be adjusted by turning the balance control towards either positive (right) or negative (left).

When set to maximum +VE or -VE the balance is 20/80 - ie at maximum positive 80% of the ions are positive and 20% of the ions are negative (or vice versa).

The RATE of pulse frequency can be adjusted from 0.1Hz to 20Hz.. The 955 should be set to the 20Hz position. (LEDs will flash at the fastest rate).

## Alarm

The alarm feature detects faults in the operation of the ionising system, e.g. problems caused by dirty emitter pins. Should a fault be detected the alarm LED will illuminate and the high voltage to the emitters will be automatically switched off. If a single occurrence of a fault occurs, the controller will switch off the HV for 1 second and then automatically reset. However, if the unit detects 5 faults in 5 seconds the HV will be permanently switched off. The fault must be removed ( e.g. by cleaning the emitter pins) and the controller reset by switching the mains supply OFF and ON.

## LED Displays

The 233 has four indicator lights:

1. Power light (Red) - Illuminated when 24V d.c. supply is provided to the unit.
2. Alarm light (Orange) - Illuminated when unit has detected a fault and has shut down.
3. Positive balance light ( Red) - indicates positive voltage and pulse rate
4. Negative balance light (Green) - indicates negative voltage and pulse rate

## Maintenance

The Model 955 features replaceable titanium emitter pins. These should be inspected periodically (typically every 30 days).

Inspection of the emitter pins must only be carried out with the Model 955 disconnected from the mains supply.

Remove the nozzle cap by pulling the cap from the nozzle body. The emitter pins will now be accessible. If the pins appear dirty they should be cleaned using a swab and isopropanol. The emitter pins must be allowed to dry before the cap is replaced and the unit is switched back on.

If the pins are worn and require replacement, they should be removed using a pair of round nose pliers and replacements fitted. Replacement pins are available from Meech, item code A-200-EMITP-10/1.0.

**The Model 955 is fitted with a filter on the air inlet. This should be inspected periodically and cleaned /replaced as necessary.**



## For Best Results

1. Keep the target area clear and free from obstruction to the ion flow.
2. Keep the work area clear of all static generative materials.
3. By properly using ionised air, all static potentials in the work area are greatly reduced, even when humidity levels decrease.

## Repairs and Warranty

The Model 955 is warranted by Meech Static Eliminators Ltd to the original purchaser against defects in material and workmanship for one year after purchase. Should any malfunction occur, please return the unit directly to us. All products returned to the factory MUST be accompanied by a return authorisation number and must be shipped prepaid.

For prompt service, ship the unit to the factory with the return authorisation number shown clearly on the label. Be sure it is well packed in a sturdy carton with shock absorbing material.

Include a note stating the nature of the problem as specifically as possible, and also include instructions for returning the unit to you. We will pay one-way return surface shipping costs on any repairs covered under the warranty.

Field repairs should not be undertaken during the warranty period. Repair attempts by unqualified personnel will invalidate the warranty.

The motor in the blower unit has a working life of up to 1500 hours and is not covered by this warranty.

# CE Approval

An EC declaration of conformity for this product exists in respect of the Low Voltage Directive :72/23/EEC ("LVD") & Electromagnetic Compatibility Directive : 89/336/EEC ("EMCD").

EN55014-1	EMC Directive - requirment (emissions).
EN55014-2	EMC Directive - requirment (immunity).
EN60335-2-69	Low voltage (electrical safety testing).
EN61000-3-2	EMC Limitis for harmonic current emissions.
EN61000-3-3	EMC Limits of voltage chnages, voltage fluctuations and flicker in public low volatge supply systems



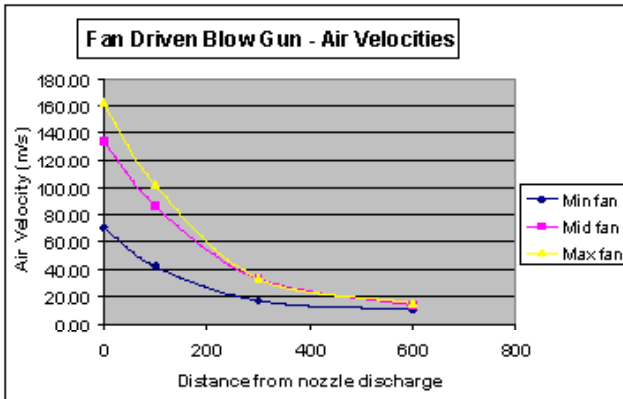
## Health and Safety

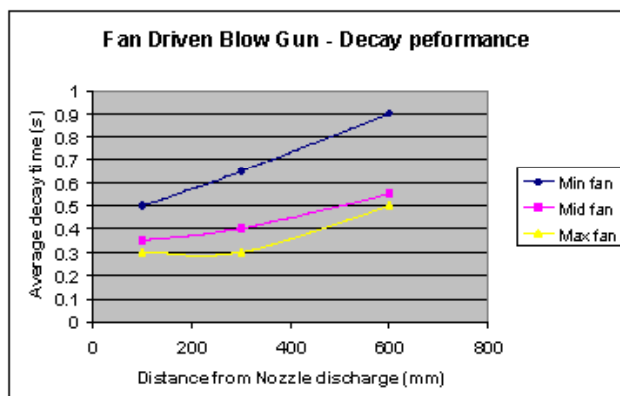
Emission of Ozone: Considerably below international standard of 0.1ppm.

# Specification

Dimensions	: 450mm x 350mm Diameter
Weight	: 8.5Kg
Hose length	: 2.5m
Input Voltage	: 240V 50Hz (Model 955-24) or 110V 60Hz (Model 955-11)
Power consumption	: 1.4kW
Decay performance	: Typically < 0.5 sec at 600mm from the nozzle at maximum air flow.
Air Velocity	: Adjustable 75m/s to 150m/s
Emitters	: Titanium
Ozone	: 0.01ppm

## Typical Performance Data













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