

# Vermason

200200

Zero Volt Ioniser



**20200** Zero Volt Ioniser, 220V (Order Power Cord Separate)

200200

# Zero Volt Ioniser

## Description

The 200200 is a compact and lightweight dual steady state DC auto-balancing benchtop ioniser. The unit is normally placed at one end of the workbench or area to be neutralised. It may also be wall mounted or mounted on a shelf. The ioniser's neutralisation time will be best approximately 30.48cm to 91.44cm directly in front of the unit and will increase as the distance from the unit increases.

“Various feedback and auto balance techniques are available to ensure performance...Providing a sensor for each ionizing device can improve control. Effective control can reduce the amount of necessary maintenance... (EN 61340-5-2 clause 5.2.9.2 Monitoring and feedback control)



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## Benefits

The primary functions of ionisers are to:

- Neutralise process necessary insulators that can charge ESDS devices / assemblies via induction, thus creating potential CDM damage, and/or
- Neutralise ESDS devices / assemblies that are not grounded, and therefore are a floating conductor, thus creating potential CDM damage, and/or
- Neutralize insulators where particulate contamination can cause visual defects (EX – dust on plastic or glass lenses, attracted to / held in place by electrostatic attraction)



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## Features

- The best balancing ioniser available
- Voltage offset controlled to  $\pm 3\%$  Volts typical
- Features steady state DC ionisation and our patented (US Patent# 4,974,115) Sense Feedback balancing
- Rapid Access Maintenance
- Provides automatic balancing of the ionisation system
- Sealed "Thru- Tunnel" air flow design
- Communication via RS-485 compatible data output with a host computer
- <1.5 seconds 1,000 to 100 volt discharge time at 30cm Balance  $\pm 5$  voltage offset, field programmable
- Dimensions 24.1cm H x 15.2cm W x 7.9cm D
- Made in America



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## Operation

Set the fan speed switch on the rear of the unit to the LOW, MED, or HI position. Higher airflow will result in faster neutralisation rates. Position the unit so that the maximum airflow is directed at the items or area to be neutralised. Turn the unit ON.

When the unit is first turned on, it conducts a self-test. The audible alarm will sound and then the LED will cycle through RED, YELLOW, and then GREEN. The LED will remain GREEN during normal operation.



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## Specifications

**Air Flow:** Three speed fan (125fpm -250fpm; 50-100cfm).

**Balance:**  $\pm 3$  volt, typical;  $\pm 5$  volts maximum

(Temperature range: 18.33°C to 26.67°C, R.H.: 15% to 65%)

**Chassis:** Stainless steel

**Dimensions ( with stand ):** 24.13cm high x 15.24cm wide x 7.874cm deep

**Emitter Points:** .050" diameter pure tungsten for improved mechanical strength and ionisation stability

**Fuse:** 250 mA slow blow

**High Voltage Power Supply:** 5.5 kV DC nominal

**Input Power:** AC line power, internally selectable for 220/230 VAC-50/60Hz

**Ion Emission:** Steady state DC with sense feedback

**Mounting:** Bench top tilt adjust frame

**Ozone:** Less than 0.05ppm

**Weight:** 2.04 kg

**Technical Bulletin TB-7525**

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## Accessories

- **200155** – Emitter Point Tip Cleaner, Pack of 20
- **200160** – Replacement Emitter Points, Pack of 8
- **200165** – Replacement Emitter Points, Pack of 100
- **200230** – Balance Alarm Programmer

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## EN 61340-5-2

“Ionizers should be considered as a method for charge neutralization in cases where grounding cannot be achieved. These may include localized (bench) ionized air blowers, compressed air ionizers, spot ionizers, tape dispenser ionizers and total room ionizers.” “Air ionization can neutralize the static charge on insulated and isolated objects by producing separate charges in the molecules of the gases of the surrounding air. When a static charge is present on objects in the work environment, it will be neutralized by attracting opposite polarity charges from the ionized air. Note that ionization systems should not be used as a primary means of charge control on conductors or people. As with all ionizers, periodic maintenance will be needed to provide optimum performance.”

(EN 61340-5-2 clause 5.2.9)