

# Auto Calibration Unit Operation and Maintenance

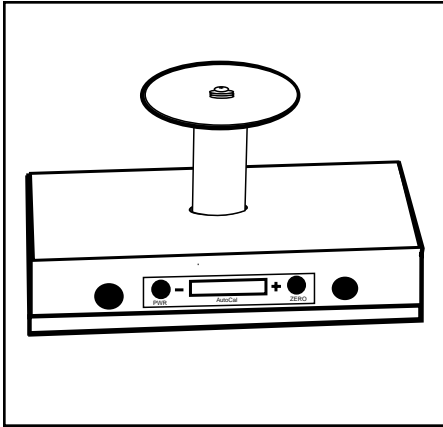


Figure 1. Charleswater Auto Calibration Unit, Item #92263

## Description

The Charleswater 92263 Auto Calibration Unit instantly calibrates a CE Ioniser to NIST traceable specifications. By using the Auto Calibration Unit, one will minimise workstation down time because the ionisers will not have to be returned to the factory for calibration. The visual balance indicator displays the ioniser's balance level. The Auto Calibration Unit derives its power from the ioniser under test. This eliminates the need for batteries or power supplies. Just plug the 92263 into the ioniser and it is ready to use.

## Initial Set-Up

Ionisers are factory set at 46 cm above the bench. If your ionizer is other than 46 cm above the bench, please follow these set-up instructions.

- Ioniser is mounted in actual use location.
- Place Charged Plate Analyser alongside the Auto Calibration Unit.
- With the Auto Calibration Unit plugged in, make slight offset adjustments on bottom right of ioniser. This adjustment compensates for the mounting height of the ioniser and geometry of the workstation.
- After initial calibration with Charged Plate Analyser, the ioniser can be recalibrated with only the Auto Calibration Unit.

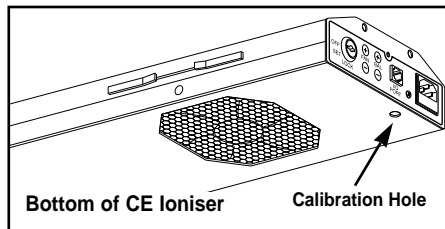


Figure 2. Initial set-up of CE Ioniser for calibration

## Operation

- Place the Auto Calibration Unit under the ioniser and centre.
- Switch on power to the ioniser.
- Connect one end of the patch cord into the 92263 and the other end to the ioniser that is labeled I/O port.
- Insert probe or tool to zero the 92263.
- The Auto Calibration Unit will automatically calibrate the ioniser back to balance. Leave the 92263 connected to the ioniser for 40-60 seconds to allow the ioniser to stabilise.
- Unplug the Calibration Unit and return the ioniser to service.

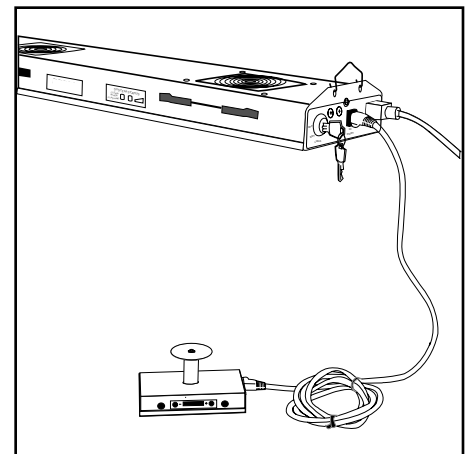
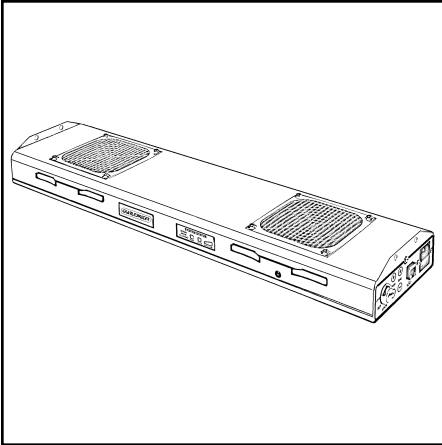


Figure 3. Operation of the Auto Calibration Unit

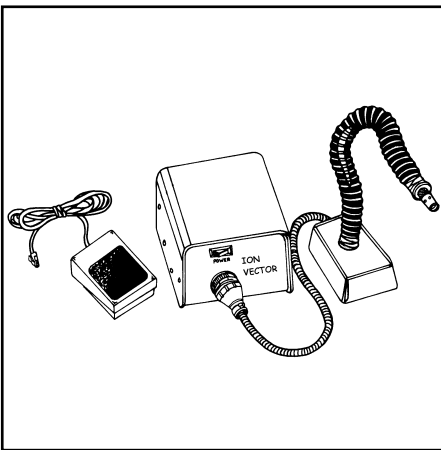
# Other Ionisation Products Available from Charleswater

## Critical Environment Ioniser (Item 92260)



The Charleswater Critical Environment Ioniser is a minimal contamination ioniser designed for use in cleanrooms. It facilitates rapid static charge neutralisation of insulators via multiple high output fans. The patented emitter cassettes slide out easily for cleaning and replacement, allowing for faster and better cleaning away from the workstation and away from your product. The Critical Environment Ioniser is available in both 61 cm (Item 92260) and 102 cm (Item 92261) lengths. For more detailed information on this product, ask for Technical Bulletin PPE-5060.E.

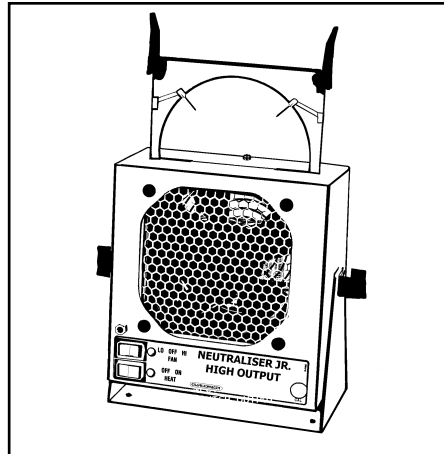
## Ion Vector System (Item 92100)



The Ion Vector System ioniser has been designed to be mounted at the workbench, and is controlled by a foot pedal. This allows the operator to keep both hands in operation by controlling the ionisation process by foot.

This unit incorporates a filter at the point of ionisation so that moisture and oil will not contaminate the ioniser. The unit can also be used with a photo-electric sensor to actuate the ioniser. For detailed information on this product ask for Technical Bulletin PPE-5056.E.

## Neutraliser Jr. H/O (Item 92322)



The Neutraliser Jr. H/O is a self-contained, auto-balancing bench top ioniser which features replaceable emitter cassettes. The state of the art auto-balancing design ensures that ion output remains balanced, despite variations in the voltage, speed and the condition of the emitter points. The Jr.'s compact and lightweight design makes the unit highly portable and takes up minimum bench space. This unit is ideally suited for field service technicians or any other application where mobility is a requirement. For detailed information ask for Technical Bulletin PPE-5010.E.

### Limited Warranty

Charleswater expressly warrants that for a period of one (1) year from the date of purchase, our wrist straps and components will be free of defects in material (parts) and workmanship (labour). Within the warranty period, a unit will be tested, repaired or replaced at Charleswater's option, free of charge. Call Customer Service at 00 44 (0) 1892-665313 for a Return Material Authorisation (RMA) and for proper shipping instructions and address. You should include a copy of your original packing slip, invoice, or other proof of purchase date. Any unit under warranty should be shipped prepaid to the Charleswater factory. Warranty replacements will take approximately two weeks.

If your unit is out of warranty, call Customer Service at 00 44 (0) 1892 - 665313 for a Return Material Authorisation (RMA) and proper shipping instructions and address. Ship your unit freight prepaid. Charleswater will quote repair charges necessary to bring your unit up to factory standards.

### Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

### Limit of Liability

In no event will Charleswater or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.