



Charleswater Ionisers

EN 61340-5-2 paragraph 5.2.9 states that "Ionisers should be considered as a method for charge neutralisation in cases where grounding cannot be achieved. Air ionisation can neutralise 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 neutralised by attracting opposite polarity charges from the ionised air."

For Complete Listing of Part Numbers, Features, and Technical Bulletins and Drawings
Visit Us On-Line: Charleswater.co.uk

Critical Environment Ioniser

- **Minimal contamination ioniser**
Rapid static discharge neutralisation of insulators. Designed for use in clean rooms.
- **Emitter cassettes (U.S. Patent 6,137,670) slide out easily for cleaning and replacement**
Faster and better emitter cleaning can be done away from the workstation and away from your product; eliminates workstation down time
- **Multiple high output fans.**
Provides more consistent and wider coverage
- **Overhead mounting**
No waste of valuable work surface space
- **Flashing front panel display**
Signals when cleaning is needed
- **Balance ± 10 voltage offset**
- **Made in America**
Superior quality



92260



DESCO EMIT Chargebuster Overhead Ioniser

- **3 Fan, steady state DC ionisation with sense feedback**
- **120/220 VAC input voltage selectable**
- **Audible and visual alarm**
Displayed through single tri-colour LED
- **3 Position fan speed**
Low, Medium, High
- **Replaceable emitter pins**
- **Made in America**
Superior quality



50681



DESCO EMIT Zero Volt Overhead Ioniser

- **Low balance, very fast discharge times**
- **Balance via hand-held remote control**
- **User Programmable maintenance and alarm levels**
- **Removable fan modules**
- **Individual fan zone calibration**
- **Dimensions (50672):**
8.9cm H x 16.5cm W x 106.7cm L
- **Dimensions (50671):**
8.9cm H x 16.5cm W x 68.6cm L
- **Less than 3 second 1000 to 100 volt discharge time at 48cm**
- **Balance ± 5 voltage offset**
- **Made in America**
Superior quality



50671



Why Ionise?



Necessary non-conductors in the environment cannot lose their electrostatic charge by attachment to ground. Ionisation systems provide neutralisation of charges on these necessary non-conductive items (i.e., circuit board materials and some device packages). Assessment of the ESD hazard created by electrostatic charges on the necessary non-conductors in the workplace is required to ensure that appropriate actions are implemented, commensurate with risk. Naturally occurring ions in the air will eventually dissipate those charges, but it could take several minutes or hours to do this. When a balance of negative AND positively charged ions are formed and directed by air flow toward a charged surface, ionisation quickly dissipates static charges on insulators and isolated conductors. When the charges are neutralised, the potentially damaged field effect on ESD susceptible devices is eliminated.

Ionisers do not replace or eliminate the need for wrist straps or foot grounders. However, in areas where insulators must be used, an ioniser can minimise problems resulting from static charges. In addition, ionisation minimises ElectroStatic Attraction (ESA), reducing contamination of airborne particles adhering to parts.

Charleswater's top-of-the-line ionisers are made in America and manufactured at our Chino, CA factory by our well-trained production team. Each ioniser is tested and calibrated to NIST traceable standards.

