

### 3M™ Benchtop Air Ionizer 963E

The use of ionized air in electronics work environments virtually eliminates the build up of potentially damaging static charges. Air ionizers are primarily used to control static charge on nonconductive materials. Grounding is normally used to control charge on conductive objects and personnel; however, nonconductors cannot be grounded to drain electrostatic charge. Ionization is a proven method of neutralizing a static charge on a nonconductor. Ionized air can neutralize static charges on circuit board substrates, insulating tapes and plastic objects found in the work area. The Benchtop Air Ionizer 963E blankets the benchtop with ionized air to help prevent static from damaging sensitive electronics.

The Benchtop Air Ionizer 963E uses AC 100V to 240V power. The ionizer features a two-speed fan, a power indicator lamp, a static-dissipative plastic housing, and a combination metal-plastic stand that can also double as a mounting bracket.

#### Rapid neutralization of electrostatic charge

The ion-generation technology present in the Benchtop Air Ionizer 963E is capable of producing extremely large amounts of ions, resulting in rapid static charge neutralization. The Benchtop Air Ionizer 963E is capable of reducing a static charge of 1000V to 100V in less than two seconds, at a one foot distance, when tested\* at the high fan speed.

\*When tested according to ANSI/ESD S3.1-1991

#### Intrinsically balanced, maintenance-free

3M ionizers have a proprietary, ion generation system which ensures balanced levels of positive and negative ions are produced. No adjustment or calibration is required to maintain ion balance. The 3M Benchtop Air Ionizer 963E is low maintenance and its unique design requires only periodic cleaning of emitter points to maintain optimum performance. The points do not require replacement and the unit does not require adjustment before or after cleaning.

#### Static-dissipative housing safe to use in ESD sensitive areas

The injection-molded plastic case is constructed of static dissipative plastic. The electrical properties of the case helps prevent a static charge from building up on the surface of the housing, a common problem with ionizers. This "ESD-safe" design allows the ionizer to be part of your overall static-safeguarded electronic workstation.



#### Basic Features

- Switching Power Supply (see specifications)
- Neutralizes static charges on nonconductive objects
- Maintains equal balance of positive-negative ions
- Two-speed fan
- Static-dissipative housing

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### Specifications

|                                 |   |
|---------------------------------|---|
| Operating Voltage and Frequency | AC 100V/240V 50/60 Hz 0.42 A  |
| Power Outlet                    | IEC 320 Socket  |
| Supplied Power Cord             | 6' (1.8 m) cord with IEC 320 and Continental Europe (EURO) plugs or North American plug |
| Dimensions                      | 8.5" W x 9" H x 4.5" D<br>(21.6 cm W x 22.9 cm H x 11.4 cm D)                           |
| Weight                          | 2.5 lb. (1.1 kg)  |
| Air Velocity**                  | low speed - 100 fpm (0.5 m/s)<br>high speed - 300 fpm (1.5 m/s)                         |
| Static Discharge Time*          | ≤ 2 seconds   |
| Offset/Balance                  | ± 30V   |
| Certifications and Approvals    | CE, UL  |
| Warranty                        | 1-year  |

(All values are typical, not specifications)

\*When tested according to ANSI/ESD STM3.1 . Static Discharge Time test at 1 ft. from center of fan to CPM.

\*\*Air Velocity tested at 1 ft. distance from center of fan to Anemometer

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