fusION™ Ionizing Bar

The fusION is a bi-polar air ionizer capable of controlling electrostatic charge in the local area. Applications for fusION are those found inside process equipment and mini-environments in the semiconductor, flat panel display, pharmaceutical, and medical device industries. It is especially well suited for applications with space constraints and low clearance.

- ***Compact Design***
- ***Auto Balancing (DOCC) Technology*** ***(Patented)***
- ***Easy to Install & Operate***
- ***System Integration with Capability to Remotely Monitor***
- ***Class 1 Cleanroom Grade SiC Emitters*** ***(Patented)***
- ***Optional Fan***

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The fusION delivers powerful electrostatic charge control capability by incorporating miniature power and control circuitry into a compact package. It can be installed in places where typical ionizer designs do not fit.

Simple to install, operate and maintain, mount the fusion in a convenient location adjacent to the static problem, connect the power supply and it begins to eliminate static charge. No adjustments or calibration are necessary with Simco's patented auto balancing (DOCC) technology. This incredibly compact unit has tungsten or patented Class 1 cleanroom grade SiC emitters and is ideal for system integration with the capability to remotely monitor.

Controlled airflow can improve performance of any ionizer. In applications that may benefit from improved airflow, an optional fan assembly is simply clipped to the fusION housing and power to the fan is supplied through a built in connection.

Everything required to operate the unit is included. Multiple units can be linked together from one 24V DC power source allowing 5 units to be daisy-chained. A 24VDC power supply is provided.

SIMCO®

An Illinois Tool Works Company

Ionization for Electronics Manufacture

Specifications:

System Performance
Discharge Time: ±1,000 - ±100V < 15 seconds at 6" (15.2cm)
Offset Voltage: < ± 50V

Operational Specifications
Power Input: 24VDC
Connectors: 4 position modular; DC power IN
HV Output Power: 50mW, Output fixed
Output Current: 5µA
Operating Modes: Steady-state DC
Indicators: Green-Power On; Red-fault indicator (TTL level alarm output)
Ambient Temperature: 32° F (0° C) to 122° F (50° C)

Mechanical Specifications
Emitters: 4-SiC or Tungsten
Enclosure: Polycarbonate with 94V-0 flame rating
Color: White
Dimensions: 3.0" H x 1.9" W x 3.8" L (7.5 x 4.8 x 9.8cm)
Weight: 8ozs (227g)

fusION Power Supply Specifications *(included with unit)*
Power output: 24VDC
Input: 100-240VAC, 50/60 Hz
AC Power Inlet: IEC 320, Class 1
Dimensions: 1.3" H x 2.0" W x 3.5" L (3.3 x 5.1 x 8.9 cm)
Color: Black
Weight: 11ozs (318gms)

Part Numbers
fusION SiC 4010446
fusION TG 4010577
Fan Assembly 4010447
Power Supplies
North America/Japan 4010448
Continental Europe 4010449
United Kingdom 4010450

Approvals: CE

Optional fusION™ Fan

Controlled airflow can improve performance of any ionizer. In applications that may benefit from improved airflow, an optional fan assembly is simply clipped to the fusION housing and power to the fan is supplied through a built in connection.

Optional Fan Specifications
Output: 5 CFM
Input: 24VDC, 60mA
Dimensions: 1.6" L x 1.6" W x 0.4" H (40 x 40 x 10 mm)
Noise: 31dB

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