



Localized Ionizer

fusIONTM

Simco-Ion's fusION Ionizer is 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 tight space constraints and low clearance.

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.

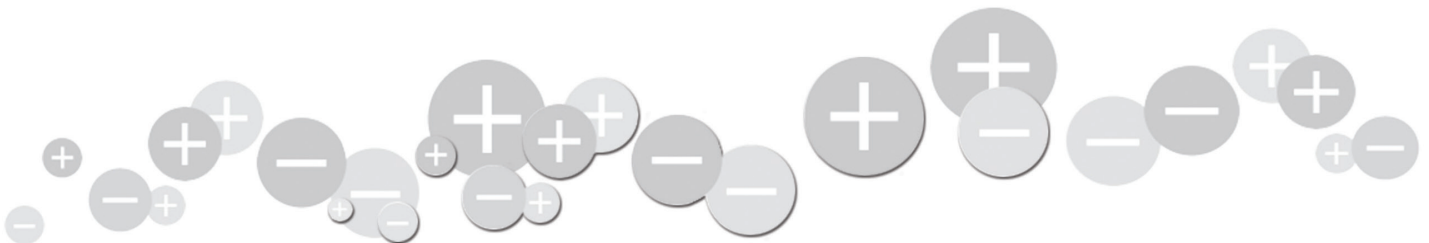
FusION is easy to install, operate and maintain. Simply mount fusION in a convenient location adjacent to the static problem. Connect the power supply and static charge is eliminated. No adjustments are necessary with Simco-Ion's auto balancing technology. This incredibly compact ionizer offers tungsten emitters. The fusION is also ideal for system integration with remote alarm capability. Multiple units can be linked together from one 24 VDC power source allowing up to 5 units to be daisy-chained. FusION can be powered directly from a process tool's 24 VDC power source or by the Simco-Ion fusION power supply kit.

Features

- Compact design
- Auto balancing technology
- Visual ionizer status indicator and digital level remote alarm output
- Single power source for multiple fusION ionizers
- Optional Fan assembly

Benefits

- Fits into the tight confines of any process tool
- No adjustments needed to maintain the required balance
- Standard features for convenient user operation
- Daisy-chain, up to 5 fusIONs, perfect for layered in-tool ionization protection
- Improved performance with extended coverage area



fusION	
Input Voltage	24 VDC, 0.2A
Output Current	5 μ A
Discharge ¹	Without fan: <15 sec @ 6" (15.2 cm) with airflow (50 fpm) With fan: <10 sec @ 12" (30.5 cm)
Balance	< $\pm$ 50V
Coverage	12" x 12" (30.5 x 30.5 cm) @ 6" (15.2 cm) spacing
Ion Emission	Steady-state DC Technology
Emitter	Tungsten
Cleanroom Class	ISO 14644-1 Class 4
LED Indicator	Green POWER ON; Red FAULT (TTL level alarm output)
Connector	DC power IN/OUT: 4 position modular, 4-pin "handset type"
Operating Env	32-122°F (0-50°C), 20-65% non-condensing
Mounting	Integrated mounting flanges accept four (4), #4 or #6 screws
Enclosure	White Polycarbonate
Dimension	1.20"H x 1.28"W x 4.50"L (3.01 x 32.5 x 11.4 cm) with flange
Weight	Without fan: 0.25 lb (0.113 kg); with fan: 0.30 lb (0.136 kg)
Warranty	Two year limited warranty
Certification	 230V, 50 Hz  120V, 60 Hz  
Optional Fan	
Input Voltage	24 VDC, 60 mA
Airflow	5 cfm
Audible Noise	31 dB
Dimension	1.60"L x 1.60"W x 0.40"H (4.06 x 4.06 x 1.02 cm)
Power Supply	
Output Voltage	24 VDC
Input Voltage	100-240 VAC, 50/60 Hz
Dimension	1.3"H x 2.0"W x 3.5"L (3.30 x 5.08 x 8.89 cm)
Weight	0.69 lb (0.31 kg)

1. Tested in accordance with ANSI/ESD STM3.1-2015.

Ordering Information

4010577	fusION Air Ionizer, Tungsten (W) emitters
4010447	fusION Snap-on Fan Assembly
4010448	fusION Power Supply Kit, 120V, 60 Hz, NA/Japan
4010449	fusION Power Supply Kit, 230V, 50 Hz, EU
4010450	fusION Power Supply Kit, 230V, 50 Hz, UK
5051288	fusION Replacement Tungsten (W) Emitter Kit, 4 emitters

Optional fusION Fan

The performance of any ionizer, including fusION, can be improved with the addition of controlled airflow. 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.



fusION with Fan Attachment

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Simco-Ion, Technology Group

1141 Harbor Bay Parkway, Suite 201
Alameda, CA 94502

Tel: +1 (800) 367-2452 (in USA)
Tel: +1 (510) 217-0460

ioninfo@simco-ion.com
www.simco-ion.com/technology

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