

**Simco® Ionization Solutions Designed For Critical Applications**

Simco has been solving electrostatic charge control problems for more than 70 years. You've come to expect the best in ionization products from Simco, the world's largest manufacturer of ionization equipment. Simco's comprehensive product line incorporates years of research, engineering and field experience to deliver effective solutions for semiconductor, electronics assembly, cleanroom and tool applications. You can be sure of receiving maximum performance and reliability.

Simco capabilities are unique. Our multinational experience and capabilities allow us to deliver either AC or DC corona technology and provide the ability to recommend the product technology best suited to your application needs.

Simco is a resource with the ability to deliver a comprehensive understanding of electrostatics to your door, anywhere in the world. And we provide effective ionization solutions.

Our experts are equipped to determine the source of your problem and recommend solutions based on industry best practice. Our capability in the design, development and manufacture of electrostatic charge control equipment is second to none. Contact Simco for an assessment of your needs. Depend on Simco to enhance the yield and quality of your operations.

Additional company information and product specifications are available (.pdf format) for viewing, download and printing by visiting [www.simcoION.biz](http://www.simcoION.biz).



**Aerostat® PC Personal Coverage Ion Air Blower**

**Features**

- Balance ±5 V
- Lifetime emitter points
- Adjustable fan speed
- Built-in emitter point cleaner

**Description**

Small, reliable and yet uncompromising in performance, Aerostat PC provides fast static discharge over a work surface. Aerostat PC provides reliable protection from the destructive effects of ESD. No calibration is necessary; its balance circuitry maintains 0 ±5 V. A built-in emitter point cleaner simplifies maintenance. Integrated heater provides user comfort and an adjustable fan speed control produces infinitely variable airflow from 14 l/s to 28 l/s (35 to 70 CFM). The PC covers a 305 x 1525 mm (1' x 5') area. The unit measures 140 x 220 x 83 mm (5.5" W x 8.62" H x 3.25" D) and weighs 2.4 kg (5.3 lbs.).

**Part Numbers**

Aerostat PC 120 V, 60 Hz.....	4003367
Aerostat PC 230 V, 50 Hz CE-EU.....	4003368
Aerostat PC 230 V, 50 Hz CE-UK.....	4008087



**Aerostat® XC Extended Coverage Ion Air Blower**

**Features**

- Balance ±5 V
- Lifetime emitter points
- Built-in emitter point cleaner
- Integrated heater and 3-speed fan

**Description**

Extended coverage XC ion air blower delivers broad coverage, stability, reliability and rapid static discharge. The XC neutralizes static across a 915 x 1830 mm (3' x 6') area. No calibration is necessary – its inherent balance method maintains a balance of 0 ±5 V. A built-in emitter point cleaner provides easy maintenance. A heater is provided for user comfort and a 3-speed fan delivers a selectable, controlled airflow at 28 l/s, 42 l/s or 48 l/s (70, 90, 120 CFM). XC measures 390 x 115 x 205 mm (15.4" W x 4.5" H x 8.1" D) and weighs 7.9 kg (17.5 lbs.).

**Part Numbers**

Aerostat XC 120 V, 60 Hz.....	4002612
Aerostat XC 230 V, 50 Hz CE-EU.....	4002667
Aerostat XC 230 V, 50 Hz CE-UK.....	4009044



**Aerostat® Guardian™ Overhead Ion Air Blower**

**Features**

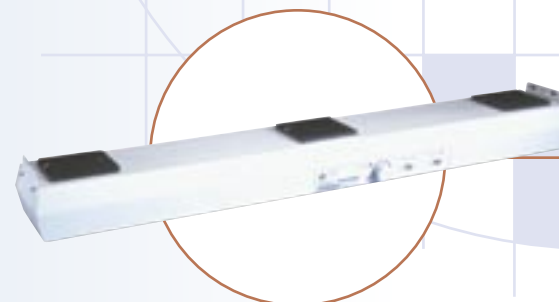
- Balance ±5 V
- Lifetime emitter points
- Integrated heater and task lights
- Built-in emitter point cleaner

**Description**

Installed above the work area, Guardian provides fast static charge control, blanketing the entire work area below. Guardian offers infinitely adjustable air volume from 60 l/s to 120 l/s (150 to 300 CFM). Equipped with task lighting, an ionization indicator light and an integrated heater, Guardian is user-friendly while effectively protecting sensitive components from electrostatic charge damage. Guardian features inherent balance technology and built in emitter point cleaner. It measures 1090 x 100 x 170 mm (42.75" W x 4.0" H x 6.75" D) and weighs 7.3 kg (16 lbs.).

**Part Numbers**

Aerostat Guardian 120 V, 60 Hz.....	4004063
Aerostat Guardian 230 V, 50 Hz CE-EU.....	4004261
Aerostat Guardian 230 V, 50 Hz CE-UK.....	4009890



**Aerostat® Guardian™ CR2000 Cleanroom Overhead Ion Air Blower**

**Features**

- Class 10 (209E), ISO class 4
- Inherent balance ±5 V
- Lifetime emitter points
- Built-in emitter point cleaner

**Description**

Designed for use above critical cleanroom applications CR2000 is a class 10 clean compatible ionizer. The 3-fan unit has an infinitely adjustable airflow from 54 l/s to 108 l/s (135 to 270 CFM). The 2-fan unit is adjustable from 42 l/s to 84 l/s (90 to 180 CFM). Multiple units can be powered consecutively in a daisy chain manner. The 3-fan unit measures 1090 x 100 x 170 mm (42.75" W x 4.0" H x 6.75" D) and weighs 6.80 kg. (15 lbs.). The 2-fan unit measures 805 x 100 x 170 mm (31.75" W x 4.0" H x 6.75" D) and weighs 5.5 kg (12 lbs.).

**Part Numbers**

Aerostat Guardian CR2000 120 V, 60 Hz 3-fan.....	4008630
Aerostat Guardian CR2000 230 V, 50 Hz 3-fan CE-EU.....	4008705
Aerostat Guardian CR2000 230 V, 50 Hz 3-fan CE-UK.....	4008805
Aerostat Guardian CR2000 120 V, 60 Hz 2-fan.....	4008729
Aerostat Guardian CR2000 230 V, 50 Hz 2-fan CE-EU.....	4008730
Aerostat Guardian CR2000 230 V, 50 Hz 2-fan CE-UK.....	4008804



**Aerostat® FPD High Output Ion Air Blower**

**Features**

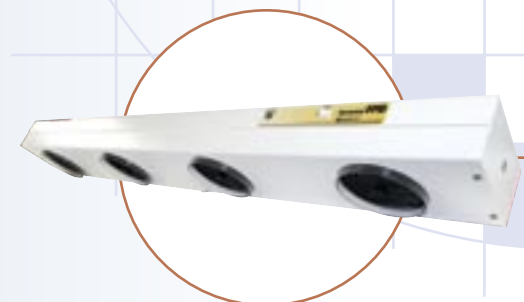
- Fast discharge
- High reliability
- Consistent performance
- Built-in emitter point cleaner
- Ionization indicator

**Description**

Aerostat FPD ion air blower provides the highest airflow and widest coverage area for big jobs, where providing the fastest discharge time is critical to meet process requirements. Available in two-, three- and four-fan models, FPD provides coverage in a variety of applications. Aerostat FPD utilizes reliable, low maintenance AC corona technology with high flow rate fans to provide exceptionally fast static discharge performance. The FPD 2-fan measures 590 x 100 x 160 mm (23.25" W x 4.0" H x 6.25" D) and weighs 4.5 kg (10 lbs.). The 3-fan FPD measures 900 x 100 x 160 mm (35.5" W x 4.0" H x 6.25" D) and weighs 5.9 kg (13 lbs.). The 4-fan FPD measures 1215 x 100 x 160 mm (47.75" W x 4.0" H x 6.25" D) and weighs 7.3 kg (16 lbs.).

**Part Numbers**

Aerostat FPD, 4-fan, 120/220 VAC, 50/60 Hz.....	4011009
Aerostat FPD, 3-fan, 120/220 VAC, 50/60 Hz.....	4011007
Aerostat FPD, 2-fan, 120/220 VAC, 50/60 Hz.....	4011005



**VSE-3000 Chapman Ion Air Blower**

**Features**

- Balance ±5 V
- Integrated heater
- Variable speed fan

**Description**

The Simco built, Chapman brand VSE-3000 ion air blower is an efficient workstation ionizer that neutralizes electrostatic charge quickly and reliably. The VSE-3000 produces airflow of 32 l/s to 64 l/s (80 to 160 CFM), flooding the work area with bipolar ions to neutralize electrostatic charge. No calibration is necessary – its inherent balance control maintains a balance of 0 ±5 V. An integrated heater provides operator comfort. The VSE-3000 typically covers a 610 x 1525 mm (2' x 5') area. The unit measures 305 x 160 x 255 mm (12" W x 6.25" H x 10.0" D) and weighs 3.6 kg (8 lbs.).

**Part Numbers**

VSE 3000, 120 V, 60 Hz.....	10735-001
VSE 3000, 230 V, 50 Hz CE-EU.....	10735-014
VSE 3000, 230 V, 50 Hz CE-UK.....	10735-015



**minION™ Compact Ionizer**

**Features**

- Small
- 2-fan speeds
- Patented radial emitter design
- Auto-balancing DOCC technology

**Description**

The minION incorporates Simco's auto-balance, steady-state DC corona ion technology. Our self-monitoring and control method, known as DOCC, ensures the user of controlled, consistent ion output. Performance is enhanced by Simco's patented radial emitter design. The minION has two user selectable airflows – LOW 6.8 l/s (17 CFM) or HIGH 13.6 l/s (34 CFM). The unit is both compact and economical. The minION covers a 305 x 1220 mm (1' x 4') area. The minION measures 140 x 160 x 55 mm (5.5" W x 6.37" H x 2.18" D) and weighs 0.45 kg (1 lb.).

**Part Numbers**

minION 115 V, 60 Hz.....	4009018
minION 230 V, 50 Hz CE-EU.....	4009049
minION 230 V, 50 Hz CE-UK.....	4009051



**minION™ OH  
Overhead Ion Air Blower**

**Features**

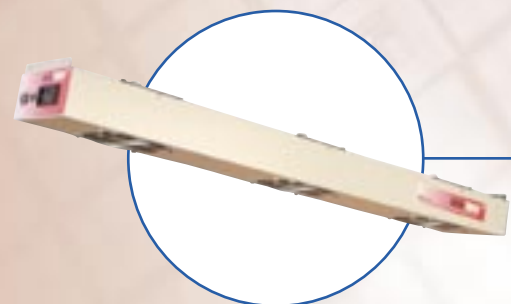
- Auto-balancing DOCC technology
- Built-in emitter point cleaner
- Daisy-chain capability

**Description**

Mounted over the work area, the unit is designed to control electrostatic charges in assembly and electronics manufacturing applications requiring stable performance in an affordable package. Simco's patented steady state DC corona DOCC ion technology with active self-monitoring ensures controlled, consistent ion output. A two-speed fan delivers airflow of 54 l/s (135 CFM) or 108 l/s (270 CFM). The minION covers a 760 x 1525 mm (2.5' x 5') area, measures 1015 x 100 x 60 mm (40" W x 4.0" H x 2.43" D) and weighs 6.8 kg (15 lbs.).

**Part Numbers**

minION OH overhead 115 V,	
3-fan .....	4009100
minION OH overhead 230 V,	
3-fan CE-EU .....	4009136
minION OH overhead 230 V,	
3-fan CE-UK .....	4009137



CE

**centurION™  
Cleanroom Ionizer**

**Features**

- Class 10 (209E), ISO class 4
- Balance ±3 V
- Patented radial emitter array

**Description**

The centurION 9E is a single-fan, bipolar corona DC ionizer designed for use in critical cleanroom applications to Class 10 (209E), ISO class 4. It offers superior balance of ±3 Volts using an internal closed loop feedback method. Airflow is adjustable from 23 l/s to 42 l/s (50 to 90 CFM). Universal power input and IEC style power cords enable the centurION to be plugged into any outlet from 100 V to 240 V. The centurION covers a 305 x 1220 mm (1' x 4') area, measures 240 x 200 x 85 mm (9.37" W x 8.0" H x 3.37" D) and weighs 1.61 kg (3.5 lbs.).

**Part Numbers**

centurION 1-fan 120 V .....	4009408
centurION 1-fan 230 V CE-EU .....	4009409
centurION 1-fan 230 V CE-UK .....	4009410



CE

**centurION™  
Cleanroom Ionizer  
Two- and Three-Fan**

**Features**

- ±3 V Balance
- Class 10 (209E), ISO class 4
- Patented radial emitter array
- Built-in emitter point cleaner

**Description**

The centurION 9E DC Ionizer is designed for use in critical cleanroom applications where electrostatic discharge (ESD) is a concern and even very low levels of electrostatic charge can damage sensitive components. It offers superior balance performance with its patented emitter array design and high-gain dual feedback circuitry. Using corona ion technology, the centurION 9E eliminates charges cleanly, quickly and reliably. The centurION 3-fan measures 1015 x 75 x 150 mm (40" W x 3" H x 6" D) and weighs 4.9kg (11 lbs.). The centurION 2-fan measures 660 x 75 x 150 mm (26" W x 3" H x 6" D) and weighs 3.6 kg (8 lbs.).

**Part Numbers**

centurION 2-fan 120 V, N.A.M.....	4009430
centurION 2-fan 230 V, CE-EU .....	4009431
centurION 2-fan 230 V, CE-UK .....	4009432
centurION 3-fan 120 V, N.A.M.....	4009423
centurION 3-fan 230 V, CE-EU .....	4009424
centurION 3-fan 230 V, CE-UK .....	4009425



UL US CE

**centurION™ DDI  
Critical Clean Ionizer**

**Features**

- Superior ion balance ±3 V
- Class 10 (209E), ISO class 4
- Patented 9-pin emitter design
- Built-in emitter cleaner
- Stainless steel enclosure

**Description**

The centurION DDI is designed for use in critical cleanroom applications. This single-fan DC corona ionizer offers superior balance performance with its patented emitter array design and high-gain dual feedback circuitry. Connect an external sensor (sensors sold separately) for even better performance. The centurION DDI eliminates static charges cleanly, quickly and reliably, and provides true next generation performance to meet the demands of leading edge industry. DDI covers a 305 x 1220 mm (1' x 4') area and measures 150 x 287 x 90 mm (5.9" W x 11.3" H x 3.58" D) and weighs 2.0 kg (4.5 lbs.).

**Part Numbers**

centurION DDI, 1-fan, 100/115 VAC,	
Hi SPD Sensor, N.A.M .....	4010997
centurION DDI, 1-fan, 230 VAC,	
Hi SPD Sensor, EU .....	4011214
centurION DDI, 1-fan, 230 VAC,	
Hi SPD Sensor, UK .....	4011215



CE

**centurION™ DDI  
Critical Clean  
Two- and Three-Fan Ionizers**

**Features**

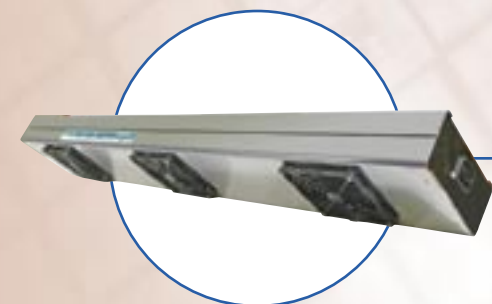
- ±3 V ion balance
- Class 10 (209E), ISO class 4
- Patented emitter array
- Built-in emitter point cleaner
- Stainless steel case

**Description**

The centurION DDI 2- and 3-fan ionizers have been designed to meet the most demanding requirements of the disc drive industry and are ideal for use in clean process applications. Each model delivers the same outstanding balance performance through the use of its patented emitter array design and high-gain dual feedback circuitry. The centurION DDI family eliminates charges cleanly, quickly and reliably, providing true next generation performance with corona ion technology. The centurION DDI 3-fan measures 1016 x 70 x 152 mm (40" W x 2.75" H x 6.0" D) and weighs 6.3 kg (14 lbs.). The centurION DDI 2-fan measures 660 x 70 x 152 mm (26" W x 2.75" H x 6.0" D) and weighs 4.9 kg (11 lbs.).

**Part Numbers**

centurION DDI, 2-fan, 115 VAC, N.A.M .....	4011085
centurION DDI, 2-fan, 230 VAC, EU .....	4011087
centurION DDI, 2-fan, 230 VAC, UK .....	4011089
centurION DDI, 3-fan, 115 VAC, N.A.M .....	4011091
centurION DDI, 3-fan, 230 VAC, EU .....	4011093
centurION DDI, 3-fan, 230 VAC, UK .....	4011095



CE

**FMX-003  
Electrostatic Fieldmeter**

**Features**

- Graphic display of charge
- Self-storing plate for ionizer measurement
- Auto-ranging digital display
- HOLD function

**Description**

Model FMX-003 Electrostatic Fieldmeter is a hand-held, compact, portable instrument for measuring electrostatic charge. The FMX-003 measures positive and negative polarity electrostatic charges to 20 kV (19,999 V) at a distance of one inch. Two LED guide ring lights converge at the proper distance from a charged test object. The conductive case and ground lead facilitate reference grounding for accurate measurement. The FMX-003 measures 120 x 75 x 25 mm (4.8" H x 2.8" W x 1.0" D) and weighs 170 g (6 oz.).

**Part Number**

FMX-003 Hand-held fieldmeter with	
charge plate .....	4010723



**BLOWERS**

Ionization for Electronics Manufacture



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