## BLOWERS — BENCHTOP

- Aerostat® PC
- PC2
- EndStat 2020
- MinION2™

**Cleanroom Rated**
- CenturION™

**Extended Range**
- Aerostat® XC Series

## BLOWERS — OVERHEAD

- Aerostat® FPD
- Aerostat® Guardian™

**Cleanroom Rated**
- Aerostat® Guardian™ CR2000
- CenturION™

## AIR GUNS

- Top Gun™
- PulseGun8

## BARS

- IONForce™
- FusION™ Series
- ScorpION3
- Pulse-Stat AC Series

## ROOM SYSTEMS

- Gemini G3

## POWER SUPPLIES

- PCM Controller
- PFC-20 PulseFlow® Controller
- AFC2 Airflow Controller
- VisIONi™ Bipolar

## METER

- FMX-003 Electrostatic Fieldmeter

### Simco Manufacturing Sites

- **United States**
- **Holland**
- **Japan**
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 allows us to deliver the latest AC and DC corona technology and provide the ability to recommend products best suited to your application needs.

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. Depend on Simco to enhance the yield and quality of your operations.

Simco customers rely on:

- Expert workflow analysis to compliance process reviews
- 24-hour shipping of stocked products
- Worldwide distribution network
- Continuing commitment to new product development

Ask about Simco’s consulting services:

- Program Assessments – ANSI/ESD S20.20
- Compliance Evaluations – SEMI E-78
- Training Classes
- Trouble Shooting/Problem Solving

Sales Offices

- **Simco Americas**
  2257 North Penn Rd.
  Hatfield, PA 19440
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  Fax: .....................215-997-3450
  Email: .....................info@simcomail.com

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  Lochem, Holland NL-7241 MB
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  Fax: .....................+31-573-255-488
  Email: .....................europesales@simcomail.com

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  Tai Po, N.T., Hong Kong
  Tel: .....................852-27852230
  Fax: .....................852-29475770
  Email: .....................asiasales@simcomail.com

Satellite Offices:

- **Simco Shanghai**
- **Simco Taiwan**
How is static electricity generated?

Charge generation can occur when two materials slide against each other and then separate. As shown below, after the separation has occurred, one side has charged positively and the other side has charged negatively. Conductive materials can be grounded to remove the charge; however, insulators (plastics, glass, ceramics, etc.) need ionized air on their surface to remove the positive and negative charges.

Why is static a problem?

In the semiconductor and electronics manufacturing industries, damage and yield losses attributed to the effects of static charges are well documented along with the determination of many of the specific causes. Particle contamination is a major issue as charged materials attract more particles to their surfaces than their non-charged counterparts [Electrostatic Attraction (ESA)]. Direct electrical damage caused by Electrostatic Discharge (ESD) devices can occur with a variety of ESD failure modes. In addition, ESD events produce Electromagnetic Interference (EMI) that can cause equipment malfunctions, lockups and direct damage to product via radiated and conducted forms.

Class Zero Devices

Class 0 ESD-sensitive (ESDS) devices (especially those sensitive below 100 volts) are exploding onto the scene in the electronics and semiconductor industries.

In the last few years, many facilities have struggled with ESD damage directly resulting from limitations of the semiconductor and electronics manufacturing industries’ standard ESD controls that have been used so effectively in the past. Ionization, with the latest technology, is crucial in combating the effects of static on these super-sensitive devices.
AC
AC ionizers are comprised of an alternating high voltage supply that is connected to emitters. All emitters receive both positive and negative voltage. Air assist is critical with this arrangement because ion-to-ion recombination frequently occurs.

Pulse AC: Pulse AC is similar to AC, but variations of the frequency and signal shape enable faster discharge times. However, high voltage offsets are possible.

Steady State (DC)
Steady State (DC) ionizers are comprised of separate sets of emitters connected to separate positive and negative supplies. The high voltages (positive and negative) both stay on simultaneously and constantly in this “steady state” configuration. Better discharge times can be realized versus AC ionizers without air assist.

Pulsed DC
Pulsed DC is similar to Steady State (separate positive and negative supplies), but on/off pulses are applied to the emitters on an alternate basis. The discharge times can be substantially better than Steady State ionizers; however voltage offsets can be greater than Steady State DC.

Pulsed DC with Peak Reduction ("Overlap") Technology
This Simco-patented ionizer configuration is comprised similarly to Pulsed DC, but the opposite-polarity supply stays on past each transition in the bipolar pulsing — as seen in the power supply waveforms to the right. This results in the target surface receiving both positive and negative ions concurrently during the transitions, reducing the offset peaks substantially. Depending upon the percentage of “pulse overlap” applied, discharge times can be very close to standard Pulsed DC operation — but offset voltages are reduced dramatically!
Control of electrostatic discharge in cleanroom manufacturing processes is critical because it can have a significant impact on productivity and device yields.
**NON-METALLIC**

**Silicon Carbide (CVD-SiC)**

Simco-patented CVD-SiC emitter pins have been specifically engineered for ionization applications to minimize particulates and eliminate particle bursts associated with other competing emitter materials. Cleanliness levels have been characterized to sub-ISO Class 1. The superior material properties of CVD-SiC make it the best choice for ionizer applications.

Denser and heavier materials, and materials with a higher heat of sublimation, have a lower rate of sputtering. Low sputtering rate corresponds to lower material loss/ejection. Particle shedding and bursts are associated with the sputtering rate. CVD-SiC is a denser and heavier target material than single-crystal silicon and has a much higher heat of sublimation than single-crystal silicon.

Additionally, CVD-SiC has a 43 percent stronger covalent bond (C-Si) versus the single-crystal silicon bond (Si-Si), making the material ejection much harder to achieve. The higher bond strength also enhances the CVD-SiC material aversion to degradation and increases the lifetime of the emitter pin.

(Note: U.S. patent # 7,501,765 B2)

**METALLIC**

**Tungsten (TG)**

Tungsten is remarkable for its robust physical properties, specifically, strength. Commonly used for non-critical environmental ionization applications, it is good for clean environments allowing metal. Tungsten offers long emitter point life and will not erode as quickly as tungsten wire.

**Machined Titanium (Ti)**

Titanium emitters are easily maintained. The two most useful properties of the metal form are corrosion resistance and the highest strength-to-weight ratio of any metal.

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**“Automatic Point Cleaning”**

Many products can be ordered with the built in “automatic point cleaning” feature that can be operator-set to automatically perform emitter point cleaning daily, weekly, or monthly, for both the PC2 and CenturION, at the time you choose. The auto-point cleaner can be set to operate on power up on the XC2 model.

Products that include automatic point cleaning are:

- PC2
- CenturION
- XC2

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<table>
<thead>
<tr>
<th>Material</th>
<th>Class</th>
<th>Estimated Life</th>
<th>Maintenance Period**</th>
<th>Replacement Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Carbide</td>
<td>ISO Class 1+</td>
<td>3-5 years</td>
<td>3-6 months</td>
<td>4 years</td>
</tr>
<tr>
<td>Tungsten</td>
<td>Class 10/ISO Class 4</td>
<td>3-5 years</td>
<td>3 months</td>
<td>4 years</td>
</tr>
<tr>
<td>Titanium</td>
<td>Class 10/ISO Class 4</td>
<td>2-4 years</td>
<td>3 months</td>
<td>3 years</td>
</tr>
</tbody>
</table>

*Class information is denoted as it relates to catalog products.
**Note: Maintenance periods are dependant upon environmental conditions.*
Aerostat® PC

**Features**
- Inherent balance to ±10 V
- Built-in emitter point cleaner
- Variable speed fan
- Emitter points never need replacement
- Heater for comfort

**Description**
Small, quiet, and lightweight, yet uncompromising in performance, Simco’s Aerostat PC provides superior static discharge over a targeted work surface area. It provides protection from the destructive effects of ESD using AC technology. No calibration is necessary; its inherent balance circuitry maintains a balance to ±10 V. A built-in emitter point cleaner provides low maintenance. A variable speed fan produces an air volume of from 35 to 70 CFM. The PC covers a 305 mm (1') x 1525 mm (5') area.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 mm</td>
<td>220 mm</td>
<td>83 mm</td>
<td>2.4 kg</td>
</tr>
<tr>
<td>(5.5&quot;)</td>
<td>(8.6&quot;)</td>
<td>(3.25&quot;)</td>
<td>(5.3 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**

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

PC2

**Features**
- Self-balancing to ±3 V
- Integrated emitter point cleaner
- LED status/Alarm Lights
- 24 VDC input

**Description**
The PC2 is a state-of-the-art benchtop ionizer, incorporating the latest technology to produce superior performance in protecting the most sensitive ESD components.

Using SSDC corona technology, the microprocessor controls ion balance via an internal sensor to ±3 V and offers the option of connecting to a remote sensor to achieve an ion balance to ±1 V at the target location.

The standard unit includes an integrated manual emitter point cleaner. Additionally, this unit can be ordered with a built-in automatic point cleaning feature. This feature allows the user to set a schedule to automatically clean the emitter points either on power up, daily, weekly, or monthly.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>152.4 mm</td>
<td>198.12 mm</td>
<td>88.9 mm</td>
<td>1.3 kg</td>
</tr>
<tr>
<td>(6.0&quot;)</td>
<td>(7.8&quot;)</td>
<td>(3.5&quot;)</td>
<td>(3 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**

- 120 V, 60 Hz 4012014
- 120 V with Auto Point Cleaning 4012245
- 230 V, 50 Hz CE-EU 4012015
- 230 V, 50 Hz CE-UK 4012016
- Remote Sensor 4012223
- Air Filter Retainer 4530525
- Air Filter Replacement 4470415
EndStat 2020

**Features**
- Inherent balance to ±15 V
- Compact and portable design
- Two-speed fan control
- Built-in emitter cleaner

**Description**
The Endstat 2020 AC benchtop blower produces consistent ionized airflow over a targeted work surface area. With a two-speed fan that produces an air volume of 50 to 100 CFM and covers an area of 1' by 5’, the Endstat 2020 AC ionization technology provides for economical and reliable static control. It is designed for electronics and manufacturing environments.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>145 mm (5.7”)</td>
<td>210 mm (8.2”)</td>
<td>95 mm (3.7”)</td>
<td>3.2 kg (7 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**
- 120 V, 60 Hz 4012304
- 230 V, 50 Hz CE-EU 4012305
- 230 V, 50 Hz CE-UK 4012306

MinION2™

**Features**
- Inherent balance to ±10 V
- Compact size
- 24 VDC input
- Variable speed control fan

**Description**
A combination of unique, patented features makes it possible to deliver superior performance in a small package size. Simco’s Steady State DC corona technology, using patented balance control and Simco’s radial emitter design, delivers a user friendly operation while providing industry-leading performance.

MinION2 provides user adjustable variable speed fan control, modular wiring daisy-chain capability, and fault condition signal. An optional articulating arm allows you to focus ionization on the targeted area as well as provide more benchtop usable space.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>98 mm (3.85”)</td>
<td>136 mm (5.35”)</td>
<td>60 mm (2.36”)</td>
<td>0.5 kg (1.1 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**
- 100/120 VAC 4011425
- 230 VAC CE-EU 4011426
- 230 VAC CE-UK 4011247
- MinION2 (no Power Supply) 4011424
- Articulating Arm 5051141
Features
- Class 10/ISO Class 4
- Self-balancing to ±3 V
- Built-in emitter point cleaner
- LED remote alarm indicator
- Optional automatic point cleaner

Description
The CenturION 9E DC Ionizer is designed specifically for use in critical cleanroom applications [Class 10 (ISO Class 4) rated]. It offers self-balancing to ±3 V, with an adjustable airflow velocity of 50 to 90 CFM. The standard unit includes an integrated manual emitter point cleaner. Additionally, this unit can be ordered with a built-in automatic point cleaning feature. This feature allows the user to set a schedule to automatically clean the emitter points either on power up, daily, weekly, or monthly. It may also be set to operate on power up or on demand by simply pushing a button. Universal power input enables the CenturION to be plugged into any outlet from 100 V to 240 V.

Measurements

<table>
<thead>
<tr>
<th>Area</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>305 mm (1’) x 1220 mm (4’)</td>
<td>240 mm (9.5”)</td>
<td>85 mm (3.3”)</td>
<td>1.61 kg (3.55 lbs.)</td>
</tr>
</tbody>
</table>

Part Number

<table>
<thead>
<tr>
<th>Standard</th>
<th>Optional Auto-Point Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V</td>
<td>4009408 4012250</td>
</tr>
<tr>
<td>230 V CE-EU</td>
<td>4009409 4012251</td>
</tr>
<tr>
<td>230 V CE-UK</td>
<td>4009410 4012252</td>
</tr>
</tbody>
</table>

CenturION™ DDI

Features
- Class 10/ISO Class 4
- Self-balancing to ±3 V
- Built-in emitter point cleaner
- Stainless steel enclosure

Description
The CenturION DDI is designed specifically for use by the disk drive industry in critical cleanroom applications. This single-fan DC ionizer offers superior balance performance with its novel emitter array design and high-gain dual feedback circuitry. The CenturION DDI eliminates static charges cleanly, quickly and reliably. It provides true next generation performance, meeting the demands of the disk drive industry with corona ion technology.

Measurements

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm (5.9&quot;)</td>
<td>236.22 mm (9.30&quot;)</td>
<td>90 mm (3.58&quot;)</td>
<td>2.0 kg (4.5 lbs.)</td>
</tr>
</tbody>
</table>

Part Number

<table>
<thead>
<tr>
<th>Standard</th>
<th>Optional Auto-Point Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>100/115 VAC, Tungsten, N.A.</td>
<td>4010997</td>
</tr>
<tr>
<td>100/115 VAC, Titanium, N.A.</td>
<td>4010118</td>
</tr>
<tr>
<td>230 VAC, Tungsten, CE-EU</td>
<td>4011214</td>
</tr>
<tr>
<td>230 VAC, Tungsten, CE-UK</td>
<td>4011215</td>
</tr>
</tbody>
</table>
**Aerostat® XC**

**Features**
- Inherent balance to ±5 V
- Built-in emitter point cleaner
- Integrated heater and three-speed fan
- Emitter points never need replacement

**Description**
The Extended Coverage Benchtop AC Air Blower provides excellent coverage, stability of balance, and rapid static discharge. The XC neutralizes static across an entire 915 mm (3') x 1830 mm (6') benchtop area. No calibration is necessary; its inherent balance circuitry maintains a balance of ±5 V. A built-in emitter point cleaner provides low maintenance. A three-speed fan delivers a controlled air volume of 70, 90, or 120 CFM.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 mm</td>
<td>115 mm</td>
<td>205 mm</td>
<td>7.9 kg</td>
</tr>
<tr>
<td>(35.37&quot;)</td>
<td>(4.5&quot;)</td>
<td>(8.12&quot;)</td>
<td>(17.5 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**
- 120 V, 60 Hz 4002612
- 230 V, 50 Hz EU 4002667
- 230 V, 50 Hz UK 4009044

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**Aerostat® XC2 and XC2 L**

**Features**
- Inherent balance to ±5 V
- Updated styling
- Built-in emitter point cleaner
- Adjustable locking stand
- Energy efficient

**Description**
Both the XC2 and XC2 L benchtop AC blowers provide extended coverage, superior performance and stylish design. They are great for assembly, inspection and testing environments. They are equipped with a variable fan speed control to rapidly neutralize static charges covering a 0.9 m (3') x 1.8 m (6') area. The tilt bench stand features locking points. The XC2 L unit includes an integrated manual emitter point cleaner.

In addition, the **XC2 premium model** comes equipped with an automatic point cleaning feature to automatically clean the emitter points on power up. In addition, the XC2 offers a line voltage auto-adjust mechanism as well as ionization monitoring indicators and output, which are auto-calibrated.

**Measurements**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>360 mm</td>
<td>130 mm</td>
<td>160 mm</td>
<td>4.5 kg</td>
</tr>
<tr>
<td>(14.17&quot;)</td>
<td>(5.11&quot;)</td>
<td>(6.29&quot;)</td>
<td>(10 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number: XC2**
- 120 V, 60 Hz 4012336
- 230 V, 50 Hz EU 4012491
- 230 V, 50 Hz UK 4012492

**Part Number: XC2 L**
- 120 V, 60 Hz 4012493
- 230 V, 50 Hz EU 4012495
- 230 V, 50 Hz UK 4012496
Aerostat® FPD

Features
- Inherent balance to ±5 V
- Built-in emitter point cleaner
- Recessed fan speed control
- High velocity fans provide fast discharge times

Description
Simco’s Aerostat FPD Ionizing Air Blower provides superior static neutralization over an extended surface area. Available in two-, three- and four-fan models, it provides superior coverage up to 5’. The Aerostat FPD utilizes AC ionization technology and high flow fans to provide this enhanced performance. The airflow from the unit contains both positive and negative ions, enabling the neutralization of static charges wherever the airflow is directed.

Measurements

<table>
<thead>
<tr>
<th>Unit</th>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-fan</td>
<td>1215 mm</td>
<td>100 mm</td>
<td>160 mm</td>
<td>7.3 kg</td>
</tr>
<tr>
<td></td>
<td>(47.75&quot;)</td>
<td>(4&quot;)</td>
<td>(6.25&quot;)</td>
<td>(16 Lbs.)</td>
</tr>
<tr>
<td>3-fan</td>
<td>900 mm</td>
<td>100 mm</td>
<td>160 mm</td>
<td>5.9 kg</td>
</tr>
<tr>
<td></td>
<td>(35.5&quot;)</td>
<td>(4&quot;)</td>
<td>(6.25&quot;)</td>
<td>(13 Lbs.)</td>
</tr>
<tr>
<td>2-fan</td>
<td>590 mm</td>
<td>100 mm</td>
<td>160 mm</td>
<td>4.5 kg</td>
</tr>
<tr>
<td></td>
<td>(23.25&quot;)</td>
<td>(4&quot;)</td>
<td>(6.25&quot;)</td>
<td>(10 Lbs.)</td>
</tr>
</tbody>
</table>

Part Number

| 4-fan, 120/220 V, 50/60 Hz N.A.       | 4011009 |
| 4-fan, 120/220 V, 50/60 Hz CE-EU    | 4011283 |
| 4-fan, 120/220 V, 50/60 Hz CE-UK    | 4011284 |
| 3-fan, 120/220 V, 50/60 Hz N.A.     | 4011007 |
| 3-fan, 120/220 V, 50/60 Hz CE-EU    | 4011281 |
| 3-fan, 120/220 V, 50/60 Hz CE-UK    | 4011282 |
| 2-fan, 120/220 V, 50/60 Hz N.A.     | 4011005 |
| 2-fan, 120/220 V, 50/60 Hz CE-EU    | 4011279 |
| 2-fan, 120/220 V, 50/60 Hz CE-UK    | 4011280 |

Flat Panel Displays

Does your application require wide coverage? Ask about our new XC2 wide coverage blowers built to address even the largest areas. See page 11 for XC2 information.
Aerostat® Guardian™

Features
- Inherent balance to ±5 V
- Built-in emitter point cleaner
- Integrated heater and task lights
- Emitter points never need replacement

Description
Installed above the work area, the Guardian provides fast static discharge over an entire work surface. It has adjustable air volume from 150 to 300 CFM. Equipped with task lighting, an ionization indicator light, and an integrated heater, Guardian offers user friendly operation while effectively protecting even the most sensitive components from ESD damage using AC technology.

The Guardian features inherent balance technology and a built-in emitter point cleaner.

Measurements

<table>
<thead>
<tr>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1090 mm</td>
<td>100 mm</td>
<td>170 mm</td>
<td>7.3 kg</td>
</tr>
<tr>
<td>(42.75&quot;)</td>
<td>(4&quot;)</td>
<td>(6.75&quot;)</td>
<td>(16 lbs.)</td>
</tr>
</tbody>
</table>

Part Number

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

Overhead Ionization
**Aerostat Guardian™ CR2000**

**Features**
- Class 10/ISO Class 4
- Inherent balance to ±5 V
- Built-in emitter point cleaner
- Lockout switch and daisy-chain capability

**Description**
The Aerostat Guardian CR2000 is designed for use above critical cleanroom applications and is Class 10 compatible. The three-fan unit has an adjustable airflow velocity of 135 to 270 CFM, and the two-fan unit from 90 to 180 CFM.

**Measurements**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Length</th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-fan</td>
<td>1090 mm</td>
<td>100 mm</td>
<td>170 mm</td>
<td>6.80 kg</td>
</tr>
<tr>
<td></td>
<td>(42.75&quot;)</td>
<td>(4&quot;)</td>
<td>(6.75&quot;)</td>
<td>(15 lbs.)</td>
</tr>
<tr>
<td>2-fan</td>
<td>805 mm</td>
<td>100 mm</td>
<td>170 mm</td>
<td>5.5 kg</td>
</tr>
<tr>
<td></td>
<td>(31.75&quot;)</td>
<td>(4&quot;)</td>
<td>(6.75&quot;)</td>
<td>(12 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**
- 3-fan 120 V, 60 Hz 4008630
- 3-fan 230 V, 50 Hz CE-EU 4008705
- 3-fan 230 V, 50 Hz CE-UK 4008805
- 2-fan 120 V, 60 Hz 4008729
- 2-fan 230 V, 50 Hz CE-EU 4008730
- 2-fan 230 V, 50 Hz CE-UK 4008804

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**CenturION™**

**Features**
- Class 10/ISO Class 4
- Self-balancing to ±3 V
- Built-in emitter point cleaner
- LED remote alarm indicator
- “Optional” automatic point cleaner

**Description**
The CenturION 9E DC Ionizer is designed specifically for use in critical cleanroom applications (Class 10 (ISO Class 4) rated), and also where even low levels of static charge can damage sensitive components. It features superior balance to ±3 V, adjustable airflow velocity, and LED alarm indicators with a remote alarm signal contact. The standard unit includes an integrated manual emitter point cleaner. Additionally, this unit can be ordered with a built-in automatic point cleaning feature. This feature allows the user to set a schedule to automatically clean the emitter points either on power up, daily, weekly, or monthly.

**Measurements**

<table>
<thead>
<tr>
<th>Unit (covers a 2' x 5' area)</th>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-fan</td>
<td>1015 mm</td>
<td>75 mm</td>
<td>150 mm</td>
<td>4.9 kg</td>
</tr>
<tr>
<td></td>
<td>(40&quot;)</td>
<td>(3&quot;)</td>
<td>(6&quot;)</td>
<td>(11 lbs.)</td>
</tr>
<tr>
<td>2-fan (covers a 2' x 3' area)</td>
<td>660 mm</td>
<td>75 mm</td>
<td>150 mm</td>
<td>3.6 kg</td>
</tr>
<tr>
<td></td>
<td>(26&quot;)</td>
<td>(3&quot;)</td>
<td>(6&quot;)</td>
<td>(8 lbs.)</td>
</tr>
</tbody>
</table>

**Part Number**
- 3-fan 120 V Standard 4009423
- 3-fan 120 V Optional Auto Point Cleaner 4012256
- 3-fan 230 V CE-EU Standard 4009424
- 3-fan 230 V CE-EU Optional Auto Point Cleaner 4012257
- 3-fan 230 V CE-UK Standard 4009425
- 3-fan 230 V CE-UK Optional Auto Point Cleaner 4012258
- 2-fan 120 V Standard 4009430
- 2-fan 120 V Optional Auto Point Cleaner 4012253
- 2-fan 230 V CE-EU Standard 4009431
- 2-fan 230 V CE-EU Optional Auto Point Cleaner 4012254
- 2-fan 230 V CE-UK Standard 4009432
- 2-fan 230 V CE-UK Optional Auto Point Cleaner 4012255
CenturION™ DDI

Features
- Class 10/ISO Class 4
- Self-balancing to ±3 V
- Built-in emitter point cleaner
- Stainless steel enclosure

Description
The CenturION DDI three-fan and two-fan ionizers are designed specifically for use by the disk drive industry in ultra critical cleanroom applications. Each model offers superior balance performance with its patented emitter array design with tungsten material and high-gain dual feedback circuitry. The CenturION DDI eliminates charges cleanly, quickly and reliably, providing true next generation performance with corona ion technology.

Measurements

<table>
<thead>
<tr>
<th>Unit</th>
<th>Length</th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-fan</td>
<td>1016 mm (40&quot;)</td>
<td>70 mm (2.75&quot;)</td>
<td>152 mm (6&quot;)</td>
<td>6.3 kg. (14 lbs.)</td>
</tr>
<tr>
<td>2-fan</td>
<td>660 mm (26&quot;)</td>
<td>70 mm (2.75&quot;)</td>
<td>152 mm (6&quot;)</td>
<td>4.9 kg. (11 lbs.)</td>
</tr>
</tbody>
</table>

Part Number
- 3-fan, 100/115 VAC, N.A. 4011091
- 3-fan, 230 VAC, CE-EU 4011093
- 3-fan, 230 VAC, CE-UK 4011095
- 2-fan, 100/115 VAC, N.A. 4011085
- 2-fan, 230 VAC, CE-EU 4011087
- 2-fan, 230 VAC, CE-UK 4011089
**Top Gun™ and Sidekick**

**Features**
- Inherent balance to ± 15 V
- Static dissipative lightweight handle
- Operates on either compressed air or nitrogen
- Adjustable airflow control (5 – 100 PSI)
- Optional Optical Sensor
- Hands-free operation and flexible positioning

**Description**

Simco’s **Top Gun** is a high-reliability ionizing air gun for electronics manufacturing applications. Balanced to ± 15 V, the Top Gun features high blow-off force to provide efficient cleaning and rapid static discharge. The gun body is static dissipative, lightweight (less than 7 oz.) but durable, and features a light-touch trigger. All control functions are built into the gun for easy operator use: airflow control, ion balance adjustment, and a two-level LED to indicate both power on and ionization. The Top Gun features inherent balance, reliable performance and low maintenance. It operates on an air input of 5 – 100 PSI.

For automated assembly, all versions of the Top Gun are available with an optional Optical Sensor, which automatically activates the gun when an object is in range. The Optical Sensor has an “adjustable range” from 1” – 30”.

The **Sidekick** flexible neck frees the operator’s hands during assembly and manufacturing processes. A foot pedal controls both ionization and airflow, and the flexible gun mount allows the operator to focus the ionization airflow where it is needed. It includes a steel bracket for easy benchtop mounting. Contact Simco for complete product availability.

---

**Part Number: Top Gun**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 ft. cable/hose assembly 120 V, 50/60 Hz</td>
<td>4005105</td>
</tr>
<tr>
<td>7 ft. cable/hose assembly 230 V, 50/60 Hz CE-EU</td>
<td>4005106</td>
</tr>
<tr>
<td>7 ft. cable/hose assembly 230 V, 50/60 Hz CE-UK</td>
<td>4009894</td>
</tr>
<tr>
<td>14 ft. cable/hose assembly 120 V, 50/60 Hz</td>
<td>4006599</td>
</tr>
<tr>
<td>14 ft. cable/hose assembly 230 V, 50/60 Hz CE-EU</td>
<td>4006600</td>
</tr>
<tr>
<td>14 ft. cable/hose assembly 230 V, 50/60 Hz CE-EU</td>
<td>4009895</td>
</tr>
</tbody>
</table>

*Part numbers are without sensor*

**Part Number: Sidekick**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidekick (hands-free stand) 120 V, 50/60 Hz</td>
<td>4006992</td>
</tr>
<tr>
<td>Sidekick (hands-free stand) 230 V, 50/60 Hz CE-EU</td>
<td>4007005</td>
</tr>
</tbody>
</table>

---

Ionizing Thermoformed Trays
**PulseGun 8**

**Features**
- Class 10/ISO Class 4
- 0.02 micron filter
- Requires AFC-2 Controller

**Description**
The PulseGun 8 (PG8) is a cleanroom ionizing gun with replaceable Class 1 electrodes designed for ultra-clean. An internal 0.02-micron filter eliminates particles in the gas supply line. The PG8 features a high blow-off force with a compressed air input range of 5-100 PSI. Additional features include a 1/4" air input and a 7' long cable. The AFC-2 Controller powers the PG8 gun and must be ordered separately.

**Measurements**

<table>
<thead>
<tr>
<th>Area</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 mm (1.25&quot;) Dia. x 146 mm (5.75&quot;) L</td>
<td>0.40 kg (0.88 lbs.)</td>
</tr>
</tbody>
</table>

Air flow specifications for the PulseGun are as follows:

**Part Number**
- PG8 Ionizing Gun 4005150
- AFC-2 120 V 4005186
- AFC-2 230 V EU 4005187
- AFC-2 230 V UK 4009735

**IONForce™**

**Features**
- Class 10/ISO Class 4
- Compact design
- Low profile
- Available with Air Assist
- Requires a remote power supply

**Description**
IONForce is a high performance ion bar designed to improve yield in semiconductor, nano-technology, medical device, aerospace, communication, and electronics assembly industry applications. It features a low profile with a height less than three centimeters and can be easily mounted on many types of equipment and in areas such as those using robotics with low clearance. IONForce is available with extreme clean CVD SiC emitters and requires a DC controller sold separately. IONForce bars are supplied with a detachable 2.34 M HV cable assembly (part #4108681).

IONForce also is available in air assist models. Contact Simco for complete product availability.

**Measurements**

<table>
<thead>
<tr>
<th>Height</th>
<th>Depth</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.7 mm (1.13&quot;)</td>
<td>25 mm (0.98&quot;)</td>
<td>Varies; see below</td>
</tr>
</tbody>
</table>

**Part Number**
- 356 mm (14") 4011442
- 508 mm (20") 4011444
- 813 mm (32") 4011446
- 1118 mm (44") 4011448
- 1422 mm (56") 4011450
- 1702 mm (67") 4011452

*Standard product with tungsten emitters*

**Power Supplies**
- PCM 100-120 VAC, N.A. 4011959
- PCM 230 VAC, EU 4011960
- PCM 230 VAC, UK 4011961
- PFC-20 115 V, 60 Hz, N.A. 4005184
- PFC-20 230 V, 50 Hz, CE-EU 4005185
- PFC-20 230 V, 50 Hz, CE-UK 4009734
**FusION™ Family**

**Features**
- Emitter Pin: Class 1 (TG)/ISO Class 1 (SiC)
- Compact design
- No calibration needed
- Quick installation and operation

**Description**
The FusION is a bipolar air ionizer capable of controlling electrostatic charges in a local area. This incredibly compact unit can be installed in places where typical ionizers do not fit. Simple to install and operate, mount the FusION adjacent to the static problem, connect the power supply and it begins to eliminate the charge. Multiple units can be linked together from one 24 V power source allowing five units to be daisy-chained. An optional fan assembly can be ordered for applications that may benefit from improved airflow.

Input power (24 VDC) is supplied by a universal 100 – 240 V input (IEC320), which must be ordered separately.

The Air Assist FusION delivers powerful electrostatic charge control independent of ambient airflow conditions. Using CDA (clean dry air) at low flow rates, the FusION will enjoy extended maintenance intervals.

The In-Line FusION ionizer enables stunning performance in long-length delivery lines by overcoming traditional ion recombination limitations. This enables focused ionized air to be delivered to previously inaccessible locations. The device can drive single or multiple output lines — servicing a number of locations from a single ionization source. The unit comes equipped for use with clean dry air (CDA); however, a Nitrogen Kit is available.

**Measurements**

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96.52 mm</td>
<td>76.2 mm</td>
<td>48.26 mm</td>
</tr>
<tr>
<td>(3.8”)</td>
<td>(3”)</td>
<td>(1.9”)</td>
<td></td>
</tr>
</tbody>
</table>

**Part Number: Fusion**
- FusION TG 4010577
- FusION SiC 4010446
- Fan Assembly 4010447
- Power Supply Kit (North American) 4010448

**Part Number: Fusion Air Assist**
- FusION AA SiC 4010830
- FusION AA TG 4010831
- High Purity Gas Kit x 120 5051309

**Part Number: Fusion In-Line**
- In-Line FusION SiC 4012228
- In-Line FusION TG 4012229
- Nitrogen Kit 5051513
- KIT, 6” AIR KNIFE 5051530
- KIT, 12” AIR KNIFE 5051538
- KIT, 6” RING 5051535
- KIT, 10” RING 5051539

**Power Supplies**
- 120 V, 60 Hz 4010448
- 230 V, 50 Hz, CE-EU 4010449
- 230 V, 50 Hz, CE-UK 4010450

**FusION In-Line Kits**
- Ring
- Air Knife
ScorplON3 and ScorplON3S

Features
- Emitter Pin: Class 1 (TG)/ISO Class 1 (SiC)
- 24 VDC input
- LED and remote alarm indication
- IR remote — for easy calibration
- Daisy-chain capability

Description
The ScorpION3 is a high performance ion bar designed to meet the stringent requirement of semiconductor, medical device and other critical environments requiring static and contamination control. Its patented features offer the industry’s lowest decay times while sustaining a limited offset voltage swing.

The ScorpION3 is excellent for both laminar and turbulent airflow environments. The air assist models allow for faster decay times and protection over greater distances in turbulent environments.

The optional IR remote allows complete adjustment of all bar settings and offers full metering and diagnostic feedback. Our optional computer interface program allows for remote access to the bar and its settings over your system network.

The ScorplON3S extends the ScorpION’s capabilities by adding closed-loop feedback capability for applications requiring tight balance control at the source. The optional remote sensor can be located directly below the ionizer. However, our adaptive sensor balance logic allows for indirect placement away from work area obstruction.

Measurements

<table>
<thead>
<tr>
<th>Height</th>
<th>Depth</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 mm (2.8”)</td>
<td>43 mm (2.8”)</td>
<td>Varies; see right</td>
</tr>
</tbody>
</table>

It is also available in longer lengths and other pin materials. Contact Simco for complete product availability.

Part Number: ScorplON3

<table>
<thead>
<tr>
<th>Pin Material</th>
<th>Standard Emitters</th>
<th>Air-Assist Emitters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SIC</td>
<td>TG</td>
</tr>
<tr>
<td>457 mm (18”)</td>
<td>4011553</td>
<td>4011546</td>
</tr>
<tr>
<td>610 mm (24”)</td>
<td>4011554</td>
<td>4011547</td>
</tr>
<tr>
<td>914 mm (36”)</td>
<td>4011555</td>
<td>4011548</td>
</tr>
<tr>
<td>1118 mm (44”)</td>
<td>4011556</td>
<td>4011549</td>
</tr>
<tr>
<td>1626 mm (64”)</td>
<td>4011557</td>
<td>4011550</td>
</tr>
<tr>
<td>Remote</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Interface</td>
<td>5051414</td>
<td></td>
</tr>
<tr>
<td>Power converter</td>
<td>115 V, 60 Hz</td>
<td>5051328</td>
</tr>
<tr>
<td>Power converter</td>
<td>230 V, 50 Hz EU</td>
<td>5051329</td>
</tr>
<tr>
<td>Power converter</td>
<td>230 V, 50 Hz UK</td>
<td>5051330</td>
</tr>
</tbody>
</table>

Part Number: ScorplON3S

<table>
<thead>
<tr>
<th>Pin Material</th>
<th>Standard Emitters</th>
<th>Air-Assist Emitters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SIC</td>
<td>TG</td>
</tr>
<tr>
<td>457 mm (18”)</td>
<td>4012436</td>
<td>4012439</td>
</tr>
<tr>
<td>610 mm (24”)</td>
<td>4012437</td>
<td>4012430</td>
</tr>
<tr>
<td>914 mm (36”)</td>
<td>4012438</td>
<td>4012431</td>
</tr>
<tr>
<td>1118 mm (44”)</td>
<td>4012439</td>
<td>4012432</td>
</tr>
<tr>
<td>1626 mm (64”)</td>
<td>4012440</td>
<td>4012433</td>
</tr>
<tr>
<td>1880 mm (74”)</td>
<td>4012441</td>
<td>4012434</td>
</tr>
<tr>
<td>2134 mm (84”)</td>
<td>4012442</td>
<td>4012435</td>
</tr>
<tr>
<td>Sensor</td>
<td>4012505</td>
<td></td>
</tr>
<tr>
<td>Remote</td>
<td>4012506</td>
<td></td>
</tr>
</tbody>
</table>

Power Supplies

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Frequency</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V, 60 Hz, N.A.</td>
<td>5051328</td>
<td></td>
</tr>
<tr>
<td>230 V, 50 Hz, CE-EU</td>
<td>5051329</td>
<td></td>
</tr>
<tr>
<td>230 V, 50 Hz, CE-UK</td>
<td>5051330</td>
<td></td>
</tr>
</tbody>
</table>
Pulse-Stat AC and Pulse-Stat AC L

**Features**
- Closed-loop feedback control of ionization
- Self-monitoring and automatic system correction
- Nozzle design provides equal air pressure
- Multiple emitter materials available
- Easy mounting

**Description**
Both the Pulse-Stat AC and the Pulse-Stat AC L bars feature microprocessor controlled AC air assisted ionization for rapid static discharge, stable ion balance and uniform ion homogeneity. Quick disconnect emitter pins allow for easy replacement. The Pulse-Stat AC premium model offers adjustable calibration via two remote controls; one is pocket size for bar calibration and adjustment, the other features two-way communication and an LCD display providing detailed bar operation parameters and useful diagnostics. Both remote controls use IR communication with the bar.

**Measurements**

<table>
<thead>
<tr>
<th>Height</th>
<th>Depth</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 mm</td>
<td>43 mm</td>
<td>Varies; see right</td>
</tr>
<tr>
<td>(2.8&quot;)</td>
<td>(1.7&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

It is also available in shorter lengths and other pin materials. Contact Simco for complete product availability.

<table>
<thead>
<tr>
<th>Part Number: Pulse-Stat AC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bars</strong></td>
</tr>
<tr>
<td>1200 mm (47.2&quot;)</td>
</tr>
<tr>
<td>1500 mm (59.1&quot;)</td>
</tr>
<tr>
<td>1800 mm (70.9&quot;)</td>
</tr>
<tr>
<td>2100 mm (82.7&quot;)</td>
</tr>
<tr>
<td>2400 mm (94.5&quot;)</td>
</tr>
<tr>
<td>2650 mm (104.3&quot;)</td>
</tr>
<tr>
<td>3000 mm (118.1&quot;)</td>
</tr>
</tbody>
</table>

**Power Supplies: Pulse-Stat AC**
- 120 V, 60 Hz, N.A. 5051515
- 230 V, 50 Hz, CE-EU 5051516
- 230 V, 50 Hz CE-UK 5051517
- Pulse-Stat Remote, 10 Key 4012297
- Pulse-Stat Remote, LCD Display 4012298

<table>
<thead>
<tr>
<th>Part Number: Pulse-Stat AC L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bars</strong></td>
</tr>
<tr>
<td>1200 mm (47.2&quot;)</td>
</tr>
<tr>
<td>1500 mm (59.1&quot;)</td>
</tr>
<tr>
<td>1800 mm (70.9&quot;)</td>
</tr>
<tr>
<td>2100 mm (82.7&quot;)</td>
</tr>
<tr>
<td>2400 mm (94.5&quot;)</td>
</tr>
<tr>
<td>2650 mm (104.3&quot;)</td>
</tr>
<tr>
<td>3000 mm (118.1&quot;)</td>
</tr>
</tbody>
</table>

**Power Supplies: Pulse-Stat AC L**
- 120 V, 60 Hz, N.A. 5051532
- 230 V, 50 Hz, CE-EU 5051533
- 230 V, 50 Hz, CE-UK 5051534
Gemini™ G3

Features

- Emitter Pin: Class 1 (TG)/ISO Class 1 (SiC)
- The G3PM management software provides real-time metering, data logging of all events, and graphing of all metered values
- Real time e-mail notification of up-to 15 monitored alarm conditions allows for immediate response
- Patented Pulse Overlap Technology to maximize ion balance to achieve superior discharge times

Description

The Gemini G3 CleanRoom Ceiling Ionization System is Simco’s most advanced and intelligent member of the Room Ionization and ceiling emitter system family. The G3 extends the bar of protection in turbulent open room environments. Offset voltage is reduced along with shorter discharge times via Simco’s patented Pulse Overlap Technology. Designed to integrate with Simco’s next generation ionization management software, G3PM, the G3 is the most advanced system on the market. With the added intelligence to monitor and preemptively adjust to the changing condition of the environment, the G3 self-corrects to maintain optimized performance throughout the life of the product. The G3 operates in Steady State DC, Pulsed DC or patented Pulsed DC with Peak Reduction Technology.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Emitter Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SiC</td>
</tr>
<tr>
<td>5&quot; Emitter Kits</td>
<td>5051464</td>
</tr>
<tr>
<td>14&quot; Emitter Kits</td>
<td>5051467</td>
</tr>
<tr>
<td>24&quot; Emitter Kits</td>
<td>5051468</td>
</tr>
<tr>
<td>G3 Controller – 30</td>
<td>4012485</td>
</tr>
<tr>
<td>G3 Controller – 100</td>
<td>4012486</td>
</tr>
<tr>
<td>Remote</td>
<td>4011706</td>
</tr>
</tbody>
</table>
PCM Controller

Features
- Programmable: Output Mode, Ion Output, Pulse Time, Ion Balance, and Pulse Overlap
- Hand-held remote for programming, storing, and real time monitoring of settings
- Patented “Peak Reduction” Technology
- 24 VDC input power with universal input adapter (100 – 240 V)

Description
The PCM Controller provides the most advanced microprocessor control for the Simco Ion Force Bar where superior static discharge and ion balance are required. The controller can be set for Steady State or Pulse DC mode of operation and allows for operator adjustment of the Ion Output, Pulse Time, Ion Balance, and Pulse Overlap settings to achieve superior performance. Set up and adjustment are made via the hand-held PCM Remote Control. Settings can be stored/saved in the remote for future calibration of the system. The PCM controller monitors and maintains the critical operating parameters through active self monitoring and system self-correction. Status lights visually indicate a fault condition and an alarm output provides for remote monitoring and alarm indication.

Measurements

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>196 mm (7.70&quot;)</td>
<td>52 mm (2.05&quot;)</td>
<td>110 mm (4.40&quot;)</td>
<td>0.9 kg (2.0 lbs.)</td>
</tr>
</tbody>
</table>

Part Number
- No AC Adapter: 4011958
- 100-120 VAC, N.A.: 4011959
- 230 VAC, EU: 4011960
- 230 VAC, UK: 4011961
- Remote Control: 4011964

PFC-20 PulseFlow Controller

Features
- Operates in Steady State or Pulse DC
- Compact design
- Polarity indicator lights
- Powers up to 20 emitter pairs

Description
The PFC-20 PulseFlow Controller provides power and ion balance control for the Simco Ion Force Bar, or Pulse Bar. The PFC-20 has independent bipolar power level controls and pulse or Steady State DC operating modes with polarity indicator lights. All controls are located on the front panel to accommodate mounting above or below any work area.

Measurements

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>145 mm (5.75&quot;)</td>
<td>60 mm (2.35&quot;)</td>
<td>125 mm (5.0&quot;)</td>
<td>0.63 kg (1.4 lbs.)</td>
</tr>
</tbody>
</table>

Part Number
- 115 V, 60 Hz, N.A.: 4005184
- 230 V, 50 Hz, CE-EU: 4005185
- 230 V, 50 Hz, CE-UK: 4009734
**AFC2 Airflow Controller**

**Features**
- Polarity indicator lights
- Integrated solenoid switch activates ionizer with airflow

**Description**
The AirFlow Controller provides power and control of ion balance to the PulseGun, AirSnake, and PulsePoint Nozzles. It has independent voltage level controls and Pulse or Steady State DC indicator lights. A silent switch incorporated into the controller allows voltage to be applied to the ionizer only when there is air flow. All controls are located on the front panel to accommodate mounting above or below any work area.

**Features**
- Bipolar Steady State DC
- Powers up to 20 emitter pairs
- LED and remote alarm indicator

**Description**
Simco’s VisIONi Controller is a bipolar Steady State DC power supply designed to control and power emitter systems for electrostatic charge control. The output to the ionizer is adjustable and current regulated. VisIONi features an alarm indicator light and provides a remote alarm output. The universal input voltage range is 85-265 VAC, 47-440 Hz.

**FMX-003 Electrostatic Fieldmeter**

**Features**
- Auto-ranging digital and bar graph display
- Self-storing plate for ionizer measurement
- HOLD function – to retain charge reading

**Description**
Simco’s Model FMX-003 Electrostatic Fieldmeter is a compact, portable instrument for measuring electrostatic charge. The FMX-003 measures positive and negative polarity electrostatic charges to 20 kV (20,000 V) at a distance of one inch.
Warranty
SIMCO equipment has been carefully tested and inspected at the factory and is warranted to be free from any defects in material or workmanship.

SIMCO will, under this warranty, repair or replace any equipment which proves, upon our examination, to have become defective within the Warranty period from the date of purchase. A two-year warranty applies to all SIMCO equipment. Equipment is to be returned by the purchaser to SIMCO, 2257 North Penn Road, Hatfield, Pennsylvania, 19440, transportation prepaid and insured for its full purchase price. Prior to returning goods for any reason, contact SIMCO for a Return Authorization Number. This number must accompany all returns.

The Warranty does not apply when the equipment has been tampered with, misused, improperly installed, altered, has received damage through abuse, carelessness, accident, connected to improper line voltage, or has been serviced by anyone other than an authorized factory representative. The Warranty does not apply when SIMCO parts and equipment have been energized by other than the appropriate SIMCO power supply or generator, or when SIMCO power supplies or generators have been used to energize other than SIMCO parts and equipment.

SIMCO makes no warranty, expressed or implied, nor accepts any obligation, liabilities, or responsibility in connection with the use of these products other than the repair or replacement of parts as stated herein.

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