



# Overhead Ionizing Blower

## AEROSTAT® GUARDIAN

Simco-Ion's Aerostat Guardian Overhead Ionizing Blower provides superior static charge decay over an entire work surface area. Equipped with task lighting and an integrated heater, the Guardian offers user-friendly operation while effectively protecting sensitive components from ESD damage.

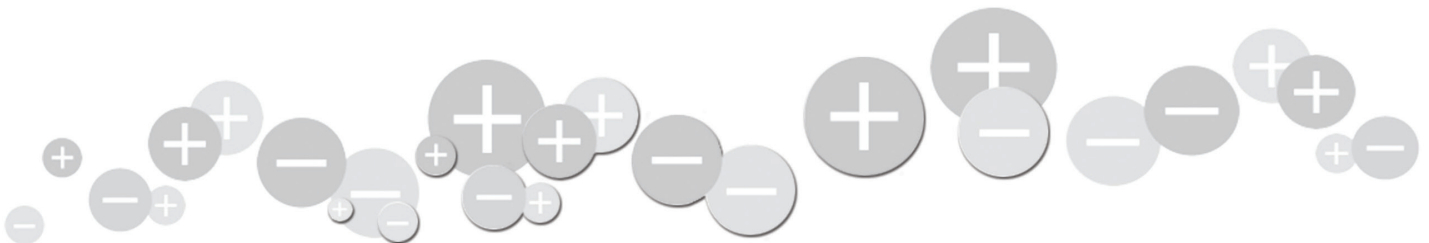
Featuring Simco-Ion's patented inherent balance and built-in emitter point cleaners, the Guardian is the lowest maintenance overhead ionizer available. Like Simco-Ion's other Aerostat series ionizing air blowers, the Guardian operates on AC Technology to provide stable balance performance over long periods of use. It is available with airflow diffusers for superior static charge decay efficiency over a large work surface area. Without diffusers, the Guardian provides fast charge decay directly under the unit for targeted work surface coverage.

### Features

- Inherently balanced to  $0 \pm 10V$
- Integrated heater and task lights
- AC Technology
- Ionization light
- Integrated manual emitter point cleaner

### Benefits

- Protects even the most sensitive electronic components
- User-friendly—enhances operator comfort and efficiency
- Stable balance over extended periods of use
- Verifies that the unit is ionizing
- Easy to maintain



| Specifications               |                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input Voltage</b>         | 120 VAC, 60 Hz, 0.5A (fan low, heater/light off); 2.5A (fan high, heater/light on)<br>230 VAC, 50 Hz, 0.2A (fan low, heater/light off); 1.5A (fan high, heater/light on)                                                                                                                                                                                            |
| <b>Discharge<sup>1</sup></b> | 3.0 sec @ 18" (45.7 cm) center blower position; fan high-no diffusers (1000-100V)                                                                                                                                                                                                                                                                                   |
| <b>Balance</b>               | 0 ±10V @ 18" (45.7 cm) from blower face                                                                                                                                                                                                                                                                                                                             |
| <b>Ion Emission</b>          | AC Ionization                                                                                                                                                                                                                                                                                                                                                       |
| <b>Coverage</b>              | 2' x 4' (61 cm x 122 cm) area                                                                                                                                                                                                                                                                                                                                       |
| <b>Cleanroom Class</b>       | Meets ISO 14644 Class 5 (Fed std. 209E Class 100)                                                                                                                                                                                                                                                                                                                   |
| <b>Emitters</b>              | Stainless Steel emitter points                                                                                                                                                                                                                                                                                                                                      |
| <b>Controls</b>              | Fan speed control knob BLOWER ON; on/off switch HEATER & TASK LIGHT                                                                                                                                                                                                                                                                                                 |
| <b>Indicators</b>            | Orange IONIZATION STATUS; orange within on/off switches HEATER & TASK LIGHT                                                                                                                                                                                                                                                                                         |
| <b>Air Volume</b>            | 150-300 cfm (low to high), combined 3-fan output                                                                                                                                                                                                                                                                                                                    |
| <b>Heated Air Temp</b>       | 25°F (14°C) fan low; 11°F (6°C) fan high measured @ 6" (15 cm) in front of center fan above ambient;                                                                                                                                                                                                                                                                |
| <b>Audible Noise</b>         | 50 dBA fan low; 60 dBA fan high                                                                                                                                                                                                                                                                                                                                     |
| <b>Operating Env.</b>        | Temperature 32-122°F (0-50°C); humidity 30-70% RH, non-condensing                                                                                                                                                                                                                                                                                                   |
| <b>Ozone<sup>2</sup></b>     | 0.02 ppm, measured @ 12" (30 cm) in front of unit                                                                                                                                                                                                                                                                                                                   |
| <b>LED Lamp</b>              | 2 ea x 5W, 508 Lumen                                                                                                                                                                                                                                                                                                                                                |
| <b>Air Filter</b>            | 30 ppi open cell polyurethane foam (optional)                                                                                                                                                                                                                                                                                                                       |
| <b>Mounting</b>              | Adjustable brackets and S-hooks provided                                                                                                                                                                                                                                                                                                                            |
| <b>Enclosure</b>             | Powder-coated white enamel aluminum                                                                                                                                                                                                                                                                                                                                 |
| <b>Weight</b>                | 16 lb (7.3 kg)                                                                                                                                                                                                                                                                                                                                                      |
| <b>Dimensions</b>            | 42.75"W x 4"H x 6.75"D (108.6 x 10.2 x 17.1 cm)                                                                                                                                                                                                                                                                                                                     |
| <b>Warranty</b>              | Two year limited warranty                                                                                                                                                                                                                                                                                                                                           |
| <b>Certifications</b>        |  230V, 50 Hz  120V, 60 Hz   |

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

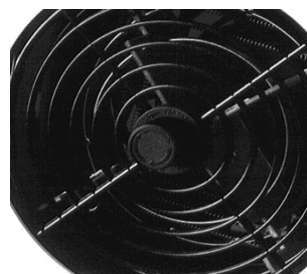
2. Test conducted in accordance with EPS EQQA-9577-019 using Dashibi Ozone Monitor Model 1003AH.

## Ordering Information

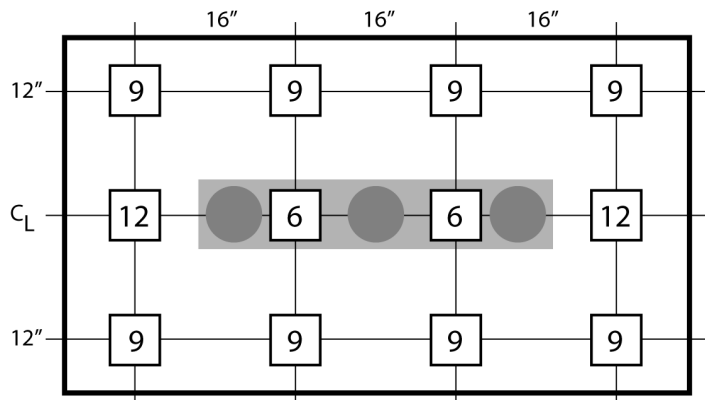
|                      |                                                            |
|----------------------|------------------------------------------------------------|
| <b>91-GUARD-DS01</b> | Aerostat Guardian, 120V, 60 Hz                             |
| <b>91-GUARD-US01</b> | Aerostat Guardian (no diffusers), 120V, 60 Hz              |
| <b>91-GUARD-EU01</b> | Aerostat Guardian, 230V, 50 Hz, (EU)                       |
| <b>91-GUARD-UK01</b> | Aerostat Guardian, 230V 50 Hz, (UK)                        |
| <b>32-6356-02</b>    | Outlet Diffuser                                            |
| <b>4710017</b>       | Aerostat Guardian Air Filter Retainer (1 per fan required) |
| <b>4100810</b>       | Aerostat Guardian Air Filter Pack (6 filters)              |
| <b>13-20520</b>      | Aerostat Guardian Task Light LED Lamp, 13W (2 per blower)  |

## Emitter Point Cleaner

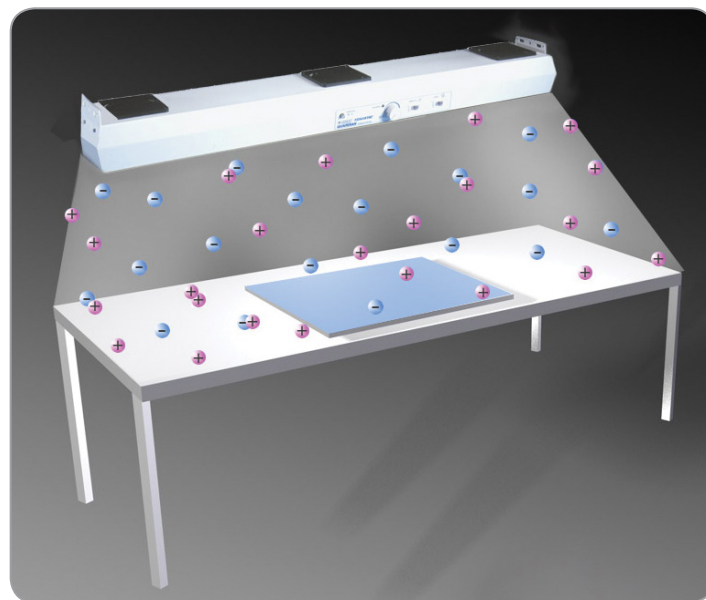
The Aerostat Guardian features a built-in manual emitter point cleaner for each fan. Using the emitter point cleaner takes only seconds. Cleaning the emitter points prevents the build-up of airborne debris. This keeps your Aerostat Guardian working in top form for the life of the unit.



## Discharge Times Performance



Discharge time in seconds (1000-100V), fan speed set to high. Guardian blower 18" from CPM measuring plate. CPM test plate 1" from table. Discharge times slightly longer for 230 VAC, 50 Hz unit.



Overhead Ionization application

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