

## Aerostat® Guardian™ Overhead Ionizer



Guardian's Patented Emitter Point Cleaner

*SIMCO's Aerostat Guardian Overhead Ionizer provides superior static charge decay efficiency 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's patented inherent balance and built-in emitter point cleaners, the Guardian is the lowest maintenance overhead ionizer available. Like SIMCO'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  $0 \pm 5$  V
- Integrated heater and task lights
- AC technology
- Ionization light
- Patented 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

### Typical Applications

- Disk Drive Manufacturing
- Medical Device Parts Assembly and Packaging
- Semiconductor Manufacturing

# Aerostat® Guardian™ Overhead Ionizer

## Specifications

### Power Requirements

120 V AC, 60 Hz:

0.5 Amp

(fan speed low, heater and light off)

2.5 Amp

(fan speed high, heater and light on)

230 V AC, 50 Hz:

0.2 Amp

(fan speed low, heater and light off)

1.5 Amp

(fan speed high, heater and light on)

### Size

42 3/4" W x 4" H x 6 3/4" D

(108.6 cm W x 10.2 cm H x 17.1 cm D)

### Weight

16 lbs. (7.3 kg.)

### Air Volume Output

150 CFM – 300 CFM (low to high)

Combined three-fan output

### Effective Coverage

2' x 4' Area

### Ion Balance (offset voltage)

0 ±5 V

### Discharge Time

3.0 seconds (1000 V to 100 V) at

18" directly under center of unit;

fan speed on high

### Operating Temperature

32° F (0° C) to 122° F (50° C)

### Heated Air Temperature

Fan Speed Above Ambient

Low 25° F (14° C)

High 11° F (6° C)

Measured 6" in front of center fan

### Light Output

1650 Lumens total

### Light Color Temp

3500 °K

### Replacement Lamp

13 watt twin tube  
compact fluorescent

### Ozone Production

0.02 ppm

Measured 12" in front of unit

(Test conducted in accordance with

EPA EQQA-0577-019 using Dashibi

Ozone Monitor Model 1003AH)

### Audible Noise

Fan Speed Low 50 dB(A)

Fan Speed High 60 dB(A)

Measured 2 ft. from unit

### Enclosure

Aluminum

### Finish

Powder Coat

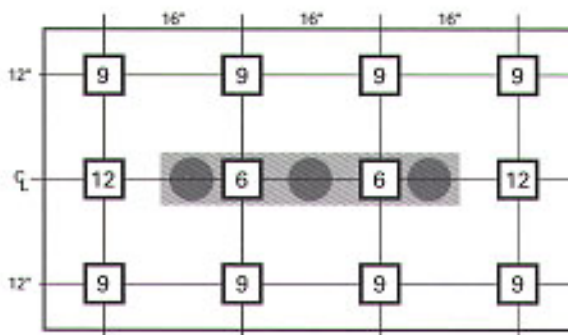
### Optional Air Filter

30 PPI open cell polyurethane foam

### Agency Approvals

UL and CUL Listed; CE Compliant

## Aerostat Guardian Discharge Time



Discharge time in seconds  
(1000 volts to 100 volts)  
determined per EOS/ESD  
Association Standard No. 3;  
unit at 18" above test plate,  
fans at high speed, model  
with diffusers. Discharge  
times slightly longer for  
230 VAC, 50 Hz unit.



## Static Control and Cleanroom Products

### SIMCO

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