

Aerostat[®] Guardian[™] Overhead Ionizer



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.



Guardian's Patented Emitter Point Cleaner

Features

- Inherently balanced to 0 ± 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

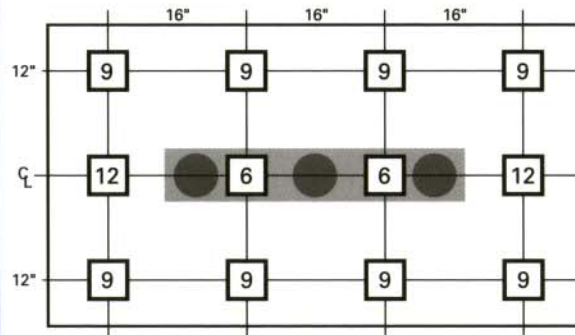
Optional Air Filter

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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