

SIMCO ION™
An ITW Company

Ionization Solutions

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Extended Coverage Area Ionizing Blower

AEROSTAT® XC2

Simco-Ion's Aerostat XC2 provides complete wide area ionization protection. As with its' predecessor, the Aerostat XC Ionizing Blower, the Aerostat XC2 is designed and built for reliable, long-term static control for a variety of electronic, semiconductor, flat-panel display and medical assembly applications. The XC2 offers outstanding coverage for larger areas with <12 second discharge times at 6 feet (1.8m) distance from the face of the blower. The weight-saving design allows the Aerostat XC2 to be mounted above the work surface, which is especially effective for flat panel display module assembly.

The Aerostat XC2 offers inherent balance to 0 ±10V for protection of sensitive electronic components. The XC2 is loaded with usability features including a built-in emitter point cleaner, adjustable locking stand, fan speed control, optional airflow heater and separate balance and fan stall alarm LEDs with an optional audible alarm. These features, plus its stylish design, make the Aerostat XC2 the ideal extended coverage ionization blower for assembly, test and packaging areas.

Features

- Large, near symmetric Ionization area coverage
- Weight-saving design
- Easy to use, built-in emitter cleaner
- ±10V self-balancing MicroPulse Technology
- Local alarm LEDs, Facility Monitoring System (FMS) connection and optional audible alarm
- Integrated heater for warm airflow

Benefits

- Designed for complete static neutralization across the entire work surface area
- Light enough to be easily mounted on or above the work surface
- Ensures consistent, balanced performance over a long time
- Long-term balance stability
- Ionization status can easily be monitored locally and at a remote location
- User comfort helps to insure that ionization remains on

Aerostat XC2	
Input Voltage	100-240 VAC, 50/60 Hz, 0.5A, 55W max (without heater) 120V with Heater: 100-120 VAC, 3.5A, 420W 220V with Heater: 220-240 VAC, 1.9A, 460W
Discharge[1]	1.0 sec @ 12" (30.5 cm); 1000-100V fan high
Balance	0 ±10V
Coverage	36"W x 72"L (91.4 x 182.9 cm); effective coverage area is up to 72" from blower face
Ion Emission	Micropulse (µPulse) Technology
Emitter	Stainless Steel
Cleanroom Class	ISO 14644-1 Class 6 (heater off)
LED Indicator	Green POWER on, Red FAULT alarm, Red FAN STALL alarm
Control	Power ON/OFF, fan speed LOW/MEDIUM/HIGH, EMITTER POINT CLEANER push button, balance adjust TRIMPOT, heater ON/OFF (optional)
Connector	FMS fault alarm output connector
Air Supply	Volume: 95 cfm (fan low), 150 cfm (fan high) Speed[2]: 620 fpm @ 12" (3.15m/s @ 30.5 cm), 435 fpm @ 24" (2.21m/s @ 61.0 cm), 325 fpm @ 36" (1.65 m/s @ 91.4 cm), 265 fpm @ 48" (1.35 m/s @ 122 cm) (fan high) Heated Temp: 4-5°F (2-3°C) above ambient; measured 12" (30.5 cm) in front of blower (optional)
Audible Noise	58 dB (fan low), 70 dB (fan high); measured 24" (61.0 cm) in front of blower
Audible Alarm	Fault and fan stall (optional)
Ozone	<0.05 ppm; measured 12" (30.5 cm) in front of blower
Operating Env[3]	50-95°F (10-35°C), 30-60% RH, non-condensing
Mounting	Powder-coated steel stand with skid resistant rubber feet
Enclosure	Powder-coated aluminum chassis
Dimension	14.13"W x 7.19"H x 7.53"D (35.9 x 18.3 x 19.1 cm) with stand
Weight	7.0 lb (3.18 kg) with stand
Warranty	Two year limited warranty
Certification	CE KC cULus RoHS2 UKCA

1. Tested in accordance with ANSI/ESD STM3.1-2015.
2. Velocity in fpm measured at center line of air stream; all values ±10%.
3. Will provide specified (to specification) performance when operated in an environment meeting the cleanliness requirements for ISO Class 6.

Ordering Information

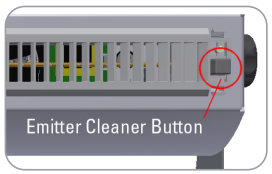
91-XC2-xx-05	Aerostat XC2 Ionizing Blower
91-XC2-xx-05A	Aerostat XC2 Ionizing Blower with Audible Alarm
91-XC2-xx-05H	Aerostat XC2 Ionizing Blower with Heater
91-XC2-xx-05HA	Aerostat XC2 Ionizing Blower with Heater and Audible Alarm
33-6002-01	Aerostat XC2 Replacement Emitter Cartridge
33-6003-01	Aerostat XC2 Air Filter Kit
33-6004-01	Aerostat XC2 Replacement Air Filters (6 pack)

Note: Part numbers above where xx = US (120V/60 Hz with North America power cord); xx = EU (230V/50 Hz with Continental Europe power cord); xx = UK (230V/50 Hz with United Kingdom power cord); xx = CN (230V/50 Hz with China power cord); xx = JP (100V/60 Hz with Japan power cord).

Balance Stability with Low Product Maintenance

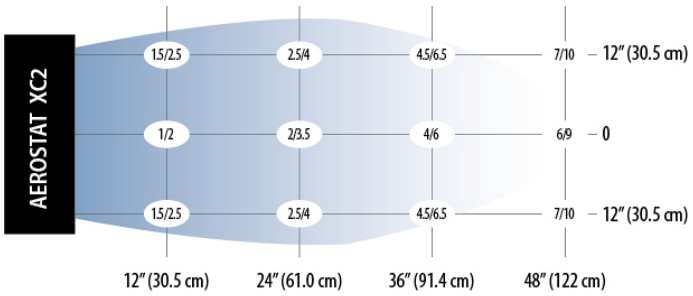
The Aerostat XC2 utilizes MicroPulse Technology applied to an emitter system for optimal performance. MicroPulse Technology reduces ion recombination at the emitter, thus increasing product efficiency and performance. Using this breakthrough technology, the Aerostat XC2 maintains long-term peak performance and balance stability for extended periods between cleanings.

The only maintenance required for the Aerostat XC2 is periodic cleaning of the emitter points using the easy, built-in push button. The cleaning mechanism slides over the emitter points, removing any debris and ensuring balanced, continuous ion output.



Discharge Times

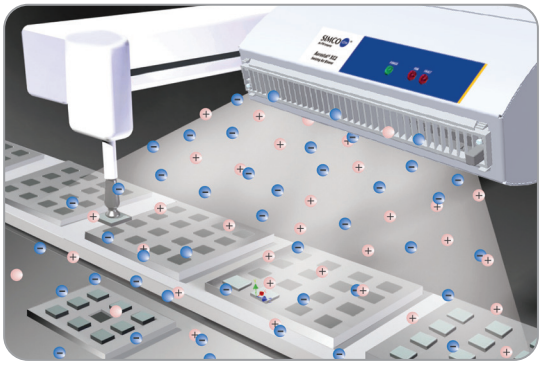
Each point identifies the 1000V to 100V discharge times (in seconds) with fan high/fan low speed across the target area. Times are slightly higher with 230V/50 Hz unit. Times have shown to be less under typical operating environments.



Discharge times are tested in accordance with ANSI/ESD STM3.1-2015.

Adaptable Options

- An integrated heater which warms the air at the face of the XC2 for increased user comfort.
- An audible alarm that operates in addition to the visible red LED on the blower to indicate operational failures including a stopped fan or loss of ionization.



Conveyor Application

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