



# AeroBar<sup>®</sup> Ionizer

## MODEL 5285e

Simco-Ion's AeroBar Ionizer Model 5285e is designed to control static charge in mini-environments, laminar flow hoods and workstations and has a unique aerodynamic design that ionizes a local area without disrupting the laminar flow. Its pulsed DC technology, combined with optimized emitter point spacing, provides uniform performance over the work area.

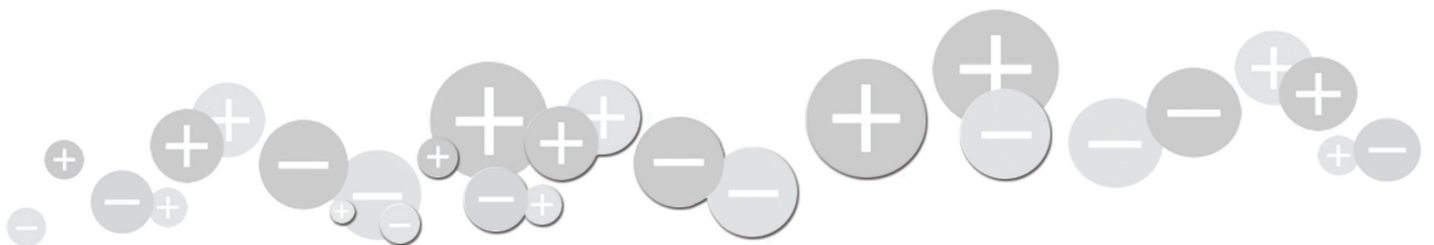
As with ceiling emitters, output and balance can be adjusted at each bar. The Model 5285e comes in a variety of lengths. Installation uses a variety of easy-mount clips, making it fast and easy. The Model 5285e also features ion current regulation and an operational failure alarm.




### Features

- Sequenced bipolar ionization
- Unique aerodynamic design
- Individual positive and negative power controls at each bar
- Ion current regulation and operational failure alarm

### Benefits

- Settable on-times provide the most efficient ionization performance, minimizing recombination
- Ionizes local areas without disrupting laminar flow
- Bars can be individually fine-tuned for different airflows and environmental conditions
- Ion current regulation maintains ion output and balance and a red LED at each AeroBar ensures quick notification of alarm conditions



Specifications	
<b>Input Voltage</b>	24 VAC (max) 50/60 Hz, 1W
<b>Output Current</b>	<15 microamps; current and voltage limited to eliminate shock hazard
<b>Connectors</b>	Telco RJ-11 modular jack receptacle on each end of the AeroBar
<b>Regulation</b>	Output and balance stability is achieved by independently regulating the ion emission of each polarity
<b>Output Control</b>	Independently adjust positive and negative output at each bar
<b>Timing</b>	Precise timing (0-9.9 sec) is supplied by the controller. Two red LEDs on each AeroBar indicate the polarity of the ion emission
<b>Ion Emission</b>	Pulsed DC
<b>Emitters</b>	Single-crystal silicon, machined titanium, tungsten alloy replaceable emitter points, with an estimated life of 2-3 years, depending on material and environment
<b>Maintenance</b>	Annual calibration recommended; emitter point inspection and cleaning as environment conditions require
<b>Alarm</b>	Alarm operates when the AeroBar is no longer able to maintain the preset ion output regulation. Red LED on the AeroBar and on the Controller (if featured) indicate an alarm condition; optional audible alarm sounds at the 5024 Controller when an alarm event occurs at any AeroBar
<b>Ozone</b>	<0.005 ppm (24-hour accumulation)
<b>EMI</b>	Below background level
<b>Mounting</b>	A variety of mounting methods and clips are available
<b>Dimensions</b>	2.1"H x 1.2"W x 22, 28, 44, 64, or 84"L (5.3 x 3.0 x 55.8, 71.1, 111.8, 162.6, 213.4 cm)
<b>Weight</b>	6 oz per ft of bar length (0.17 kg per 30 cm)
<b>Warranty</b>	Two year limited warranty
<b>Certifications</b>	SEMI F47   

## Ordering Information

<b>91-5285E-xxR</b>	AeroBar with alarm, tungsten emitter points -22, -28, -44, -64, -84 in. bar lengths
<b>91-5285EC-xxR</b>	AeroBar with alarm, titanium emitter points -22, -28, -44, -64, -84 in. bar lengths
<b>91-5285EU-xxR</b>	AeroBar with alarm, silicon emitter points -22, -28, -44, -64, -84 in. bar lengths
<b>91-5024-CER</b>	Controller, supports up to 4 AeroBars
<b>91-5024E-CER</b>	Controller with alarm, supports up to 20 AeroBars
<b>91-5024E-CE-ALMR</b>	Controller with audible alarm, supports up to 20 AeroBars

## Power and Control

The Model 5285e AeroBar Ionizer is powered by the Model 5024 Controller. Depending on the version ordered, the Model 5024 supports up to four or up to 20 AeroBars, with visual and audible alarm options. Visual and audible alarms mirror the alarm LED on the AeroBar, and Controllers with the alarm options also support FMS (facility monitoring systems) with an optional module connection.



The Model 5024 Controller supports either up to four or up to twenty AeroBars, with or without visual or audible alarms.

## Emitter Point Cleanliness

The AeroBar Ionizer operates with three emitter point materials: single-crystal silicon, machined titanium and tungsten alloy. All points are replaceable. The choice of three materials provides versatility, allowing the AeroBar to be used in the cleanest of environments. Single-crystal silicon is a proven emitter point material compatible with ISO 14644 Class 3 standard (Fed. Std. 209e Class 1), providing the cleanest static charge control. Both titanium and tungsten alloy points are available when users must avoid silicon or have less demanding cleanliness requirements.

**SIMCO ION**<sup>TM</sup>  
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