



AeroBar[®] 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 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

Input Voltage	24 VAC (max) 50/60 Hz, 1W
Output Current	<15 microamps; current and voltage limited to eliminate shock hazard
Connectors	Telco RJ-11 modular jack receptacle on each end of the AeroBar
Regulation	Output and balance stability is achieved by independently regulating the ion emission of each polarity
Output Control	Independently adjust positive and negative output at each bar
Timing	Precise timing (0-9.9 sec) is supplied by the controller. Two red LEDs on each AeroBar indicate the polarity of the ion emission
Ion Emission	Pulsed DC
Emitter Points	Single-crystal silicon, machined titanium, or tungsten alloy; all replaceable, with an estimated life of 2-3 years, depending on material and environment
Maintenance	Annual calibration recommended; emitter point inspection and cleaning as environment conditions require
Alarm	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
Ozone	<0.005 ppm (24-hour accumulation)
EMI	Below background level
Mounting	A variety of mounting methods and clips are available
Dimensions	2.1H x 1.2W x 22, 28, 44, 64, or 84L in. (5.3H x 3.0W x 55.8, 71.1, 111.8, 162.6, or 213.4 cm)
Weight	6 oz per ft of bar length (0.17 kg per 30 cm)
Warranty	Two year limited warranty
Certifications	SEMI F47 RoHS Compliant



Ordering Information

91-5285E-xxR	AeroBar with alarm, tungsten emitter points -22, -28, -44, -64, -84 in. bar lengths
91-5285EC-xxR	AeroBar with alarm, titanium emitter points -22, -28, -44, -64, -84 in. bar lengths
91-5285EU-xxR	AeroBar with alarm, silicon emitter points -22, -28, -44, -64, -84 in. bar lengths
91-5024-CER	Controller, supports up to 4 AeroBars
91-5024E-CER	Controller with alarm, supports up to 20 AeroBars
91-5024E-CE-ALMR	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 14644-1 Class 3 standard (Fed. Std. 209e Class 1), providing the cleanest static charge control. Both titanium and tungsten alloy points are available for when users must avoid silicon or have less demanding cleanliness requirements.



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