



# AeroBar Ionizer

## MODEL 5685

The AeroBar Model 5685 is designed to control static charge in mini-environments, laminar flow hoods and workstations. The AeroBar features a unique aerodynamic design that ionizes a local area without disrupting laminar flow.

Ideal in close proximity applications, the Model 5685 utilizes steady-state DC ion emission and Ion's patented IsoStat Technology. IsoStat technology guarantees intrinsically balanced ionization. No complicated feedback circuits are required to maintain balance and adjustment is never needed. Available in four different lengths and installation is fast, using easy-mount clips.










Available with single crystal silicon emitter points, the industry standard for ultraclean ionization, the AeroBar Model 5685 exceeds requirements for operation in ISO Class 2 environments (Fed. Std. 209[e] Class 1 environments).

## Features and Benefits

- Patented IsoStat® technology
- Self balanced; no calibration needed
- Steady-state DC ion emission technology
- Ionizes targets at close proximity
- Single-crystal silicon or titanium emitter points
- Silicon is the industry standard, cleanest available emitter point material
- Available in four different lengths
- Varying bar lengths mean fast, easy, and customized installation



# Specifications

<b>Model 5685 AeroBar Ionizer</b>	
<b>Input voltage</b>	24 VAC ( $\pm 10\%$ ), 50-60 Hz, 3.5 watts max.
<b>Output voltage</b>	7.5kV typical
<b>Indicators</b>	Green power LED
<b>Ion emission</b>	IsoStat steady-state DC
<b>Emitter points</b>	Machined titanium or single-crystal silicon; replaceable every 2-3 years depending on environment conditions
<b>Airflow</b>	60 fpm minimum required at bar for proper operation
<b>Discharge</b>	20 sec. or less for $\pm 1000V$ to $\pm 100V$ discharge at 24" <sup>1</sup> with minimum 60 fpm airflow
<b>Balance</b>	$\pm 25V$ at 1 foot away
<b>Mounting</b>	Two mounting clips provided, various clips and hangers available
<b>Operating environment</b>	59–95°F (15–35°C), nominal; 20–60% RH, non-condensing
<b>Dimensions</b>	2.1H x 1.13W x 11, 22, 44, 64L inches) (5.3H x 2.9W x 27.9, 55.9, 111.8, 162.6L cm)
<b>Weight</b>	9 oz per foot of bar length (255g per 0.3m)
<b>Warranty</b>	Two year limited warranty
<b>Certifications</b>	   
<b>Transformer 14-1306</b>	
<b>Input voltage</b>	100 VAC $\pm 10\%$ , 50 Hz, 300 mA
<b>Output</b>	24 VAC, $\pm 5\%$
<b>Certifications</b>	
<b>Transformer 14-1310</b>	
<b>Input voltage</b>	120 VAC $\pm 10\%$ , 60 Hz, 270 mA
<b>Output</b>	24 VAC, $\pm 5\%$
<b>Certifications</b>	
<b>Transformer 14-1523</b>	
<b>Input voltage</b>	230 VAC $\pm 10\%$ , 50/60 Hz, 35 watts
<b>Output</b>	24 VAC, $\pm 5\%$
<b>Certifications</b>	  

<sup>1</sup> Tested in accordance with ANSI/ESD STM3.1-2000

## Convenient Power Choices

The AeroBar Model 5685 may be powered by one of any three available transformers for 24 VAC power. For 100 VAC input, use the 14-1306 transformer; for 120 VAC input, use the 14-1310 transformer; for 230 VAC input, use the 14-1523 transformer.

## Patented IsoStat Technology

Ion's patented IsoStat technology<sup>2</sup> is the first balancing technology for ionizers to guarantee intrinsically balanced ionization and elimination of complicated feedback circuits. IsoStat is based on a law of physics, Conservation of Charge, which states that charge cannot be created or destroyed in an isolated system. By isolating the ionizer's emitter points from ground, IsoStat ensures equal numbers of positive and negative ions. Characteristics of IsoStat ionizers include:

- Ionizers never need calibration and require very little maintenance
- Small size and operation without grounding wires

## Ordering Information

<b>91-5685</b>	Model 5685 AeroBar Ionizer - choose 11, 22, 44, or 64" length - choose titanium (C) or silicon (U) emitter points
<b>14-1306</b>	100 VAC transformer
<b>14-1310</b>	120 VAC wall transformer
<b>14-1523</b>	230 VAC transformer



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DS-5685 - Ver.2  
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