AeroBar® Ionizer

MODEL 5685

ION Systems AeroBar Ionizer Model 5685 is designed to control static charge in mini-environments, laminar flow hoods and workstations. The Model 5685 features a unique aerodynamic design that ionizes a local area without disrupting laminar flow. Ideal in 12-24 inch distance applications with laminar air flow, the Model 5685 utilizes steady-state DC ion emission and ION Systems IsoStat® Technology. IsoStat technology guarantees intrinsically balanced ionization. No complicated feedback circuits are required to maintain balance and adjustment is never needed. The Model 5685 is available in four different lengths and installation is fast, using easy-mount clips. Plug and play, the ionizer provides balanced ionization upon power up. Available with single crystal silicon emitter points, the industry standard for ultraclean ionization, the Model 5685 meets ISO 14644-1 Class 3 standards (Fed. Std. 209e) Class 1 equivalent.

Features & Benefits

- IsoStat technology
- Steady-state DC ion emission for high ion density
- Single-crystal silicon or titanium emitter points
- Multiple lengths, including short 11 inch AeroBars
- Intrinsically balanced output of both positive and negative ions, making it ideal for any surface charge applications; low offset voltages; no calibration needed
- Fast discharge when combined with typical laminar air flows for ion delivery
- Compatible material choices for any process; silicon, the industry standard for semiconductor manufacturing, titanium for disk drive and other clean technology applications. ISO 14644-1 Class 3 standards (Fed. Std. 209e) Class 1 equivalent
- Ability to install in a multitude of hood, workstation and mini-environment sizes
Specifications

Convenient Power Choices

The 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.

IsoStat Technology

ION Systems IsoStat technology 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

<table>
<thead>
<tr>
<th>Transformer</th>
<th>Input Voltage</th>
<th>Output</th>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-1306</td>
<td>100 VAC ±10%, 50 Hz, 300 mA</td>
<td>24 VAC, ±5%</td>
<td>RoHS Compliant</td>
</tr>
<tr>
<td>14-1310</td>
<td>120 VAC ±10%, 60 Hz, 270 mA</td>
<td>24 VAC, ±5%</td>
<td>RoHS Compliant</td>
</tr>
<tr>
<td>14-1523</td>
<td>230 VAC ±10%, 50/60 Hz, 35 watts</td>
<td>24 VAC, ±5%</td>
<td>RoHS Compliant</td>
</tr>
</tbody>
</table>