Enhanced

Model 310SE
CoreStat® Self-Balanced Air Ionizing Blower

FEATURES
- CoreStat® Self-Balanced Technology
- Steady-State DC Ion Emission
- Versatile Application
- Ion Balance Alarm
- Output Monitoring for Balance and Failures
- Auto-Cleaning Brush & Button
- RJ-45 FMS Interface

APPLICATIONS
Tribocharging is a typical ESD source and induced field from insulators must be controlled in EPA (ESD protected area). Process required insulators are commonly used in many places and should be neutralized by ionization systems.

CoreStat® self-balanced technology, Model 310SE is designed as versatile applications for semiconductor back-end, printed circuit board assembly and general electronics applications. Model 310SE ionizing blower does not required regular based calibration and intrinsically maintains low offset voltage within a spec.

The New RJ-45 Facility Monitoring System (FMS) interface will give real time ionizer status monitoring. Visual (LED) and audible (buzzer) alarms operates when HV power fail and out of balance status. Built-in auto-cleaning brush and button will reduce significant maintenance resources.
Enhanced Model 310SE CoreStat® Self-Balanced Air Ionizing Blower

Specifications

Input Voltage: 24 VDC, 9.3 W Max
Ion Emission: Steady-state DC Technology
Ion Balance: <±20 V
Discharge Time: ±1000 V to ±100 V less than 2 sec (30cm)
±1000 V to ±100 V less than 5 sec (60cm)
Air Flow: 100 CFM
Alarm: Visual & Audio alarm operates when ionizer can not maintain balance limit and power failures.
Monitoring: RJ-45 terminal Interface
Operating Environment: Temperature: 15 - 35℃
Humidity: 35 - 75 % RH
Material: Enclosure & Filter Cover: ABS plastic
Bracket: Aluminum
Dimensions (mm): 125W x 135H x 700 (without bracket)
152W x 155H x 170D (with bracket)
Weight: 580g (with bracket)
Warranty: 2 year limited warranty
Certification: CE, RoHS

Facility Monitoring System Output Signals

<table>
<thead>
<tr>
<th>Condition</th>
<th>Pin 2 / 4</th>
<th>Pin 6 / 8</th>
<th>Pin 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Operation</td>
<td>Open</td>
<td>Open</td>
<td>Low</td>
</tr>
<tr>
<td>HV Power Fail</td>
<td>Closed</td>
<td>Closed</td>
<td>High</td>
</tr>
<tr>
<td>Balance Fail</td>
<td>Closed</td>
<td>Closed</td>
<td>Low</td>
</tr>
<tr>
<td>Port alarm</td>
<td>Open</td>
<td>Open</td>
<td>Low</td>
</tr>
</tbody>
</table>

Discharge Time

<table>
<thead>
<tr>
<th>0</th>
<th>300</th>
<th>600</th>
<th>900</th>
<th>1200</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;2sec</td>
<td>&lt;5sec</td>
<td>&lt;9sec</td>
<td>&lt;16sec</td>
</tr>
</tbody>
</table>

Discharge time and balance measured according to ANSI/ESD STM3.1 using a Charge Plate Monitor (CPM)

Selection

- Model 310SE: One Touch Auto-Cleaning Button, Built-in Auto-Cleaning Brush
- Model 310S: Without Auto-Cleaning Brush & Button
- Model 310: Economic Version Without Options

Related Products

- Model 5310EP: Tungsten (99.99%) Emitter
- Model 5310GF: Rear Panel Filter Grille
- Model 5310AC: Auto-Cleaning Brush
- Model 5808, 5820: Integrated Monitoring & Controlling System (Up to 20 units)
- Model 5820: Integrated Monitoring & Controlling System (Up to 20 units)

Model 5808, 5820 Ionizer Monitoring System

- Balance & HV Failure Alarm
- Port Detection
- 24 VDC Distribution Up to 20 units
- All 20 Ionizers Auto-Cleaning at Once