Model 360A
CoreStat® Self-Balanced Air Ionizing Blower

FEATURES
· CoreStat® Self-Balanced Technology
· Steady-State DC Ion Emission
· Low Balance
· Ion Balance Alarm
· Output Monitoring for Balance and Failures
· Facility Monitoring System (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 neutralize by ionization systems.

CoreStat® self-balanced technology, Model 360A is designed as versatile applications for semiconductor back-end, printed circuit board assembly and general electronics applications. Model 360A ionizing blower does not required regular based calibration and intrinsically maintains low offset voltage within a spec.

Facility Monitoring System (FMS) interface will give real time ionizer status monitoring. Visual (LED) and audible (buzzer) alarms operate when HV power fail and out of balance status.

BENEFITS
· No Calibration Required
· Ionizer Status Monitoring
· Small Size for In-Tool and Bench-Top
· No Transient Noise Free
· Audio & Visual Alarms
· Easy Cleaning and Replacement of Emitter Points
Model 360A CoreStat® Self-Balanced Air Ionizing Blower

Specifications

Input Voltage: 24 VDC, 4.8W Max
Ion Emission: Steady-state DC Technology
Ion Balance: ±10 V
Discharge Time: ±1000 V to ±100V less than 5 sec (30cm)
±1000 V to ±100V less than 10 sec (60cm)
Air Flow: 27 CFM
Alarm: Visual & Audio alarm operates when ionizer can not maintain balance limit and power failures.
Monitoring: FMS Interface
Operating Environment: Temperature: 15 - 35°C, Humidity: 35 - 75 % RH
Material: Enclosure & Filter Cover: ABS plastic, Bracket: Aluminum
Dimensions (mm): 80W x 110H x 64D (without bracket), 105W x 120H x 64D (with bracket)
Weight: 340g (with bracket)
Warranty: 2 year limited warranty
Certification: CE, RoHS

Status

<table>
<thead>
<tr>
<th>Condition</th>
<th>Pin 2 / 4</th>
<th>Pin 5 / 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>

Facility Monitoring System Output Signals

Model 5360EP: Tungsten (99.99%) Emitter
Model 5360GF: Rear Panel Filter Grille
Model 5808: Integrated Monitoring & Controlling System (Up to 8 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

Discharge Time

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

Size & Dimensions (mm)

Related Products

Model 5360EP, 5360GF, 5808, 5820

Model 5360EP
- Tungsten (99.99%) Emitter

Model 5360GF
- Rear Panel Filter Grille

Model 5808
- Integrated Monitoring & Controlling System (Up to 8 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

Facility Monitoring System Output Signals

Condition | Pin 2 / 4 | Pin 5 / 8 | Pin 7 |
-----------|-----------|-----------|-------|
Normal     | Open      | Open      | Low   |
HV Power Fail | Closed    | Closed    | High  |
Balance Fail | Closed    | Closed    | Low   |
Port alarm (with Model 5820) | Open | Open | Low |