

Enhanced

Model 3940E

Fast Discharge

CoreStat® Overhead Ionizing Blower



FEATURES

- CoreStat® Self-Balanced Technology
- Steady-State DC Ion Emission
- Low Offset Voltage
- Output Monitoring for Balance and Failures
- Auto-Stop & Auto-Cleaning
- Three Step Fan Speed Adjustment
- IR Remote Control

BENEFITS

- Slim Design
- No Calibration Required
- Neutralize Entire Workstation
- Fast Discharge Time
- Easy Cleaning and Replacement of Emitter Points
- Audio & Visual Alarms

APPLICATIONS

Core Insight's innovative design CoreStat® Model 3940E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3940E is designed to be very reliable for long-term operation without cleaning or calibration for semiconductor, flat panel display, and general electronic assembly applications.

Model 3940E Overhead Ionizing Blower can discharge less than 5 second at 1200mm distance. Model 3940E ionizer maintains intrinsic balance less than $\pm 5V$ for ESDS items. Built-in auto-cleaning brush operates when the fan filter grille is open or power on/off. Audio and visual alarms operate when ion balance exceeded limit and power supply failure. Light weight and slim design allow more convenient installation when space is limited.

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Model 3940E CoreStat® Overhead Ionizing Blower

Specifications

| | |
|-----------------------|---|
| Input Voltage | 100 ~ 240 VAC, 1A Max |
| Ion Emission | Steady-state DC Technology |
| Ion Balance | < ±5V |
| Discharge Time | Less than 5 sec at 1200 mm (high fan speed) |
| Air Flow | 100 ~ 165 CFM, 3 step fan speed adjustment |
| Alarm | Visual & Audio alarm operates when ionizer can not maintain balance limit and for power failures |
| Monitoring | FMS 8 channel terminal |
| Operating Environment | Temperature: 15 ~ 35°C Humidity: 35 ~ 75% RH |
| Material | Enclosure & Filter: ABS plastic Emitter Points: Tungsten (replaceable) Bracket: ABS plastic |
| Dimensions (mm) | 1200W x 118H x 180D |
| Weight | 4.3 kg |
| Warranty | 2 year limited warranty |
| Compatibility | ISO 14644-1 Class 4 Cleanroom Compatible |
| Certification | |



LED Lights Option



Auto-Cleaning Brush and Grille Opening

Facility Monitoring System Output Signals

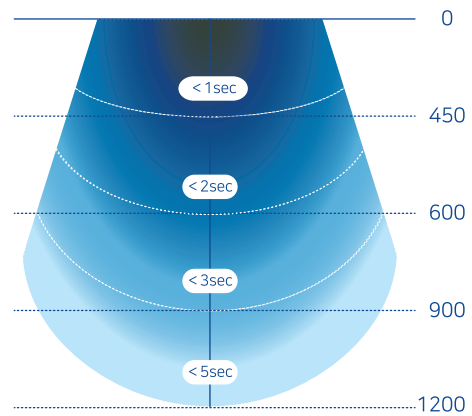
| Status | Visual | Audio |
|------------------|--------------|------------------|
| Normal Operation | GREEN | Inactivate |
| HV Power Fail | RED | Continuous Sound |
| Balance Fail | RED Blinking | Beeping Sound |

| Condition | FMS 1~2 | FMS 4~5 | FMS 3~6 |
|-----------|---------|---------|---------|
| Normal | Open | 4 ~ 5mA | Open |
| Alarm | Closed | 17~20mA | Closed |
| Power Off | Closed | Open | Closed |

Purchasing Options

| | |
|--------------|---|
| Model 3940 | No Cleaning Brush |
| Model 3940E | Built-in Auto-Cleaning Brush |
| Model 3940L | No Cleaning Brush, LED Lights |
| Model 3940EL | Built-in Auto-Cleaning Brush and LED Lights |

Discharge Time



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

Related Products

| | |
|--------------|--|
| Model 5331R | Fan Speed Remote Control |
| Model 5380GF | Filter Grille |
| Model 5390AC | Auto-Cleaning Brush |
| Model 5820 | Intergrated Monitoring & Controlling System for up to 20 units |



Model 5820 Ionizer Monitoring System

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

Size & Dimensions (mm)

