

**Enhanced**

# Model 3820E

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
- Daisy-Chain AC Power Distribution

## 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 3820E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3820E 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 3820E Overhead Ionizing Blower can discharge less than 3 seconds at 450mm distance. Model 3820E ionizer maintains intrinsic balance less than  $\pm 10V$  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 3820E CoreStat® Overhead Ionizing Blower

## Specifications

<b>Input Voltage</b>	100 - 240 VAC, 1A Max
<b>Ion Emission</b>	Steady-state DC Technology
<b>Ion Balance</b>	< ±10V
<b>Discharge Time</b>	Less than 3 sec at 450 mm (high fan speed)
<b>Air Flow</b>	100 ~ 150 CFM, 3 step fan speed adjustment
<b>Alarm</b>	Visual & Audio alarm operates when ionizer can not maintain balance limit and for power failures
<b>Monitoring</b>	FMS 8 channel terminal
<b>Operating Environment</b>	Temperature: 15 - 35°C Humidity: 35 - 75% RH
<b>Material</b>	Enclosure & Filter: ABS plastic Emitter Points: Tungsten (replaceable) Bracket: ABS plastic
<b>Dimensions (mm)</b>	680W x 118H x 180D
<b>Weight</b>	2.9 kg
<b>Warranty</b>	2 year limited warranty
<b>Compatibility Certification</b>	



LED Lights Option



Auto-Cleaning Brush and Grille Opening

## Facility Monitoring System Output Signals

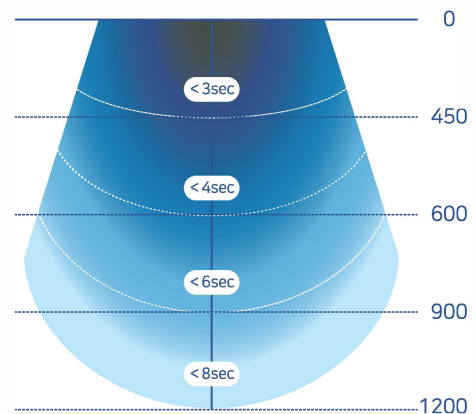
Status	Visual	Audio
Normal Operation	GREEN	Inactivate
HV Power Fail	RED	Continuous Sound
Balance Fail	RED Blinking	Beeping Sound

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

<b>Model 3820</b>	No Cleaning Brush
<b>Model 3820E</b>	Built-in Auto-Cleaning Brush
<b>Model 3820L</b>	No Cleaning Brush, LED Lights
<b>Model 3820EL</b>	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

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



Model 5808, 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)

