

Enhanced

Model 3810E

CoreStat® Self-Balanced Air Ionizing Blower







FEATURES

- · CoreStat® Self-Balanced Technology
- · Steady-State DC Ion Emission
- \cdot Class 0 & Versatile Application
- · Ion Balance Alarm
- · Output Monitoring for Balance and Failures
- · Facility Monitoring System(FMS) Interface
- · Auto-Cleaning Brush

BENEFITS

- · No Calibration Required
- · Ionizer Status Monitoring
- · Auto-Stop Safety Function
- · No Transient Noise Free
- · Audio & Visual Alarms
- · Easy Cleaning and Replacement of Emitter Points

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 3810E is designed as class 0 and versatile applications for semiconductor back-end, printed circuit board assembly and general electronics applications.

Model 3810E 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 operates when HV power fail and out of balance status. Built-in auto-cleaning brush will reduce significant maintenance resources.

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Specifications

Input Voltage24 VDC, 10.6W MaxIon EmissionSteady-state DC Technology

Ion Balance $<\pm5$ V

Discharge Time ± 1000 V to ± 100 V less than 1 sec (30cm) ± 1000 V to ± 100 V less than 3 sec (60cm)

Air Flow 140 CFM

Alarm Visual & Audio alarm operates when ionizer can not maintain

balance limit and power failures.

Monitoring FMS Interface

Operating Environment Temperature: 15 - 35℃

Humidity: 35 - 75 % RH

Material Enclosure & Filter Cover: ABS plastic

Bracket: Aluminum

Dimensions (mm) 148W x 185H x 77D (without bracket)

188W x 205H x 77D (with bracket)

Weight 1kg (with bracket)
Warranty 2 year limited warranty

Certification

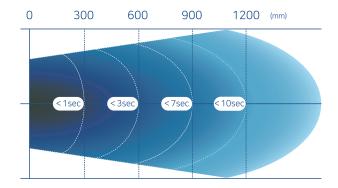


Status	Visual	Audio
Normal Operation	GREEN	Inactivate
HV Power Fail	RED	Continuous Sound
Balance Fail	RED	Beeping Sound

Facility Monitoring System Ouput Signals

Condition	Pin 2 / 4	Pin 6 / 8	Pin 7
Normal	Open	Open	Low
HV Power alarm	Closed	Closed	High
Balance alarm	Closed	Closed	Low
Port alarm (with Model 5820)	Open	Open	Low

Discharge Time



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







- · LED Alarm for Balance & HV Power Failure
- · Auto-Stop & Auto-Cleaning Brush
- · Easy Access for Manual Cleaning
- · Facility Monitoring System Interface

Selection

Model 3810E	Built-in Auto-Cleaning Brush
Model 3810	Without Auto-Cleaning Brush & Button

Related Products

Model 5360EP	Tungsten (99.99%) Emitter
Model 5380GF	Rear Panel Filter Grille
Model 5380AC	Auto-Cleaning Brush
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

Size & Dimensions (mm)

