

Enhanced

Model 3810F NEW

CoreStat® Self-Balanced Air lonizing Blower







FEATURES

- CoreStat® Self-Balanced Technology
- Steady-State DC Ion Emission
- Class O Application
- One-Touch Auto-Cleaning
- RJ-45 Monitoring Interface

BENEFITS

- No Calibration Required
- Ionizer Status Monitoring
- Auto-Stop for Safety
- Transient Noise Free
- Emitter Point Replaceable

APPLICATIONS

Tribocharging is a typical ESD source and induction field from insulators must be controlled in ESD protected area (EPA). Process required insulators are one of root cause of CDM ESD device damage and should be maintain lowest voltage difference by low offset ionizers.

CoreStat® self-balanced technology, Model 3810F is designed as Class 0 device handling applications for semiconductor back-end process, printed circuit board assembly and high performance computing (HPC) applications. Model 3810F ionizing blower does not required regular based calibration and it intrinsically maintains very low offset voltage.

Facility Monitoring System (FMS) interface has changed to RJ-45 ethernet terminal and this will save resources to connection. This change allows plug-and-play through 24V DC supplies through this wiring. Visual (LED) and audible alarms operates when HV power failure and out of balance status. One-Touch auto-cleaning brush will reduce significant maintenance resources.

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Model 3810F CoreStat® Self-Balanced Air Ionizing Blower

Specifications `

Input Voltage 24 VDC, 10.6 W Max Steady-state DC Technology Ion Emission

Ion Balance < ±5 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

Visual & Audio alarm operates when ionizer can not maintain Alarm

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)

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

ISO 14644-1 Class 4 Cleanroom Compatible Compatibility

Certification







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

Condition	Pin 1 / 3	Pin 5 / 7	Pin 2
Normal	Open	Open	High
HV Power alarm	Closed	Open	High
Balance alarm	Open	Closed	High





- One-Touch Auto-Cleaning
- LED Alarms for Offset & HV Failure
- Auto-Stop for Personal Safety
- RJ-45 Facility Monitoring

Selection

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

Related Products

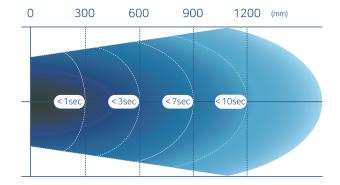
Model 5360EP	Tungsten (99.99%) Emitter
Model 5380GF	Rear Panel Filter Grille
Model 5380AC	Auto-Cleaning Brush
Model 5820	Integrated Monitoring & Controlling System (Up to 20 units)



Model 5820 Ionizer Monitoring System

- Ion Balance Status Alarm
- HV Power Failure Alarm
- 24V DC Power Distribution
- Auto-Cleaning at Once for all connected ionizers

Discharge Time



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

Size & Dimensions (mm)

