

Model 3810 Series

ENHANCED CoreStat® Self-Balanced Air Ionizing Blower

FEATURES

- Steady-State DC Ion Emission
- Self-Balanced Technology
- Class 0 Application
- LED & Audio Alarms
- RJ-45 FMS Terminal

BENEFITS

- No Calibration
- Ionizer Status Monitoring
- Auto-Stop for Safety
- No Transient Noise
- 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 ionizers.

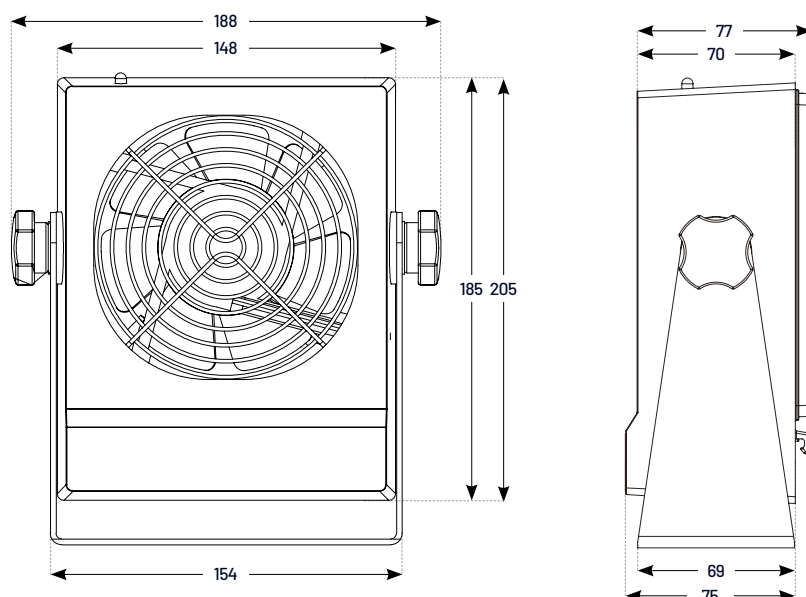
CoreStat® self-balanced technology, Model 3810 Series is designed as Class 0 device handling applications for semiconductor back-end process, printed circuit board assembly and high performance computing (HPC) applications. Model 3810 Series ionizing blower does not required regular based calibration and it intrinsically maintains very low offset voltage. RJ-45 terminal Facility Monitoring System (FMS) allows easy connection though standard ethernet cable and plug-and-play by 24V DC wiring termination. 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.



SPECIFICATIONS

Input Voltage	24V DC, 10.6 W Max	Operating Environment	Temperature: 15 - 35 °C, nominal Humidity: 35 - 75% RH
Ion Emission	Steady-state DC Technology	Material	Enclosure : ABS plastic
Ion Balance	Less than ± 5 V Peak Offset Voltage	Dimensions	148 W x 185 H x 77 D mm (without stand) 188 W x 205 H x 77 D mm (with stand)
Discharge Time	Less than 1 second at 300 mm Less than 3 seconds at 600 mm	Weight	1 kg (with stand)
Air Flow	140 CFM	Warranty	2 year limited warranty
Alarm	Visual & Audio alarm operate for power failures and out of balance	Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Monitoring	FMS Interface	Certification	CE RoHS LISTED

SIZE & DIMENSIONS (mm)



OUTPUT SIGNAL AND WIRING FOR FACILITY MONITORING SYSTEM (FMS)

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

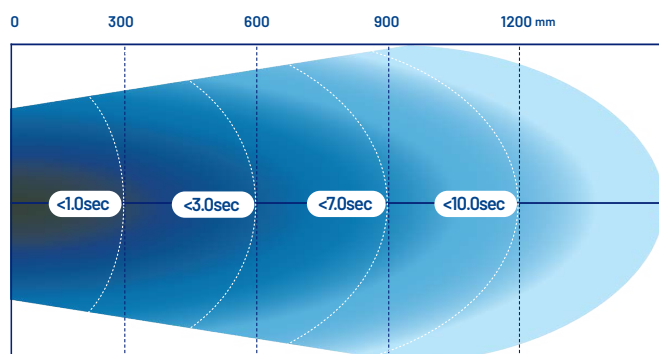
RELATED PRODUCTS

Model 5360EP	99.99% Tungsten Emitter Point
Model 5380GF	Rear Panel Filter Grille
Model 5390AC	Auto-Cleaning Brush

PRODUCT INFORMATION

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

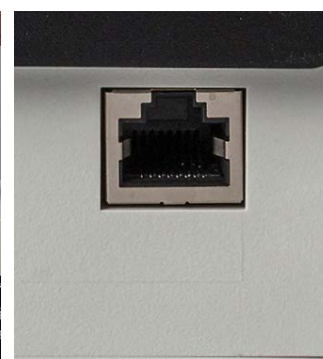
DISCHARGE TIME



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



One-Touch Automatic Cleaning System



RJ-45 Terminal FMS Interface