

Enhanced

Model 360F *Preliminary*

CoreStat® Self-Balanced Air Ionizing Blower



FEATURES

- CoreStat® Self-Balanced Technology
- Steady-State DC Ion Emission
- 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
- Small Size for In-Tool and Bench-Top
- 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 360F is designed as class 0 and versatile applications for semiconductor back-end, printed circuit board assembly and general electronics applications. Model 360F 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.

Enhanced Model 360F CoreStat® Self-Balanced Air Ionizing Blower

Specifications

Input Voltage	24 VDC, 4.8 W Max
Ion Emission	Steady-state DC Technology
Ion Balance	< ±3 V*
Discharge Time	±1000 V to ±100 V less than 5 sec (30cm) ±1000 V to ±100 V less than 10 sec (60cm)
Air Flow	27 CFM
Alarm	Visual & Audio alarm operates when ionizer can not maintain balance limit and power failures.
Monitoring	FMS Interface
Operating Environment	Temperature: 15 ~ 35°C Humidity: 35 ~ 75 % RH
Material	Enclosure & Filter Cover: ABS plastic Bracket: Aluminum
Dimensions (mm)	80W x 110H x 64D (without bracket) 105W x 120H x 64D (with bracket)
Weight	340g (with bracket)
Warranty	2 year limited warranty
Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Certification	  



- One-Touch Auto-Cleaning System
- LED Alarm for Balance & HV Power Failure
- Easy Access for Manual Cleaning
- Facility Monitoring System Interface

Related Products

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

Facility Monitoring System Output Signals

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

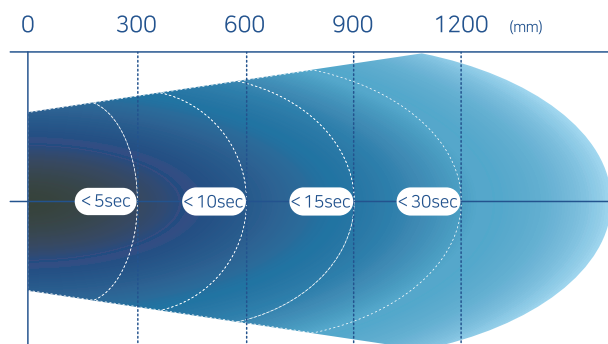
Condition	Pin 2 / 4	Pin 6 / 8	Pin 7
Normal	Open	Open	High
HV Power Alarm	Open	Closed	High
Balance Alarm	Closed	Open	High
Port Alarm (with Model 5820)	Open	Open	Low



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

Discharge Time



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

Size & Dimensions (mm)

