Enhanced
Model 310SE
CoreStat® Self-Balanced Air Ionizing Blower

FEATURES

· CoreStat® Self-Balanced Technology
· Steady-State DC Ion Emission
· Versatile Application
· Ion Balance Alarm
· Output Monitoring for Balance and Failures
· Auto-Cleaning Brush & Button
· RJ-45 FMS Interface

BENEFITS

· No Calibration Required
· Ionizer Status Monitoring
· 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 310SE is designed as versatile applications for semiconductor back-end, printed circuit board assembly and general electronics applications.
Model 310SE ionizing blower does not required regular based calibration and intrinsically maintains low offset voltage within a spec.

The New RJ-45 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 and button will reduce significant maintenance resources.

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Specifications

Input Voltage	24 VDC, 9.3 W Max
Ion Emission	Steady-state DC Technology
Ion Balance	< ±20 V
Discharge Time	±1000 V to ±100 V less than 2 sec (30cm)
	±1000 V to ±100 V less than 5 sec (60cm)
Air Flow	100 CFM
Alarm	Visual & Audio alarm operates when ionizer can not maintain balance limit and power failures.
Monitoring	RJ-45 terminal Interface
Operating Environment	Temperature: 15 - 35℃
	Humidity: 35 - 75 % RH
Material	Enclosure & Filter Cover: ABS plastic
	Bracket: Aluminum
Dimensions (mm)	125W x 135H x 70D (without bracket)
	152W x 155H x 70D (with bracket)
Weight	580g (with bracket)
Warranty	2 year limited warranty
Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Certification	CE RoHS 2002/95/EC UL LISTED

· Auto-Cleaning Brush & Button
· Ion Balance Alarm
· Easy Access for Manual Cleaning
· New RJ-45 Facility Monitoring System Interface

Selection

Model 310SE	One Touch Auto-Cleaning Button Built-in Auto-Cleaning Brush
Model 310S	Without Auto-Cleaning Brush & Button

Facility Monitoring System Ouput 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

Related Products

Model 5310EP	Tungsten (99.99%) Emitter
Model 5310GF	Rear Panel Filter Grille
Model 5310AC	Auto-Cleaning Brush
Model 5820	Integrated Monitoring & Controlling System (Up to 20 units)

Model 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

| 0 | 300 | 600 | 900 | 1200 | (mm) |

<2sec   <5sec   <9sec   <16sec
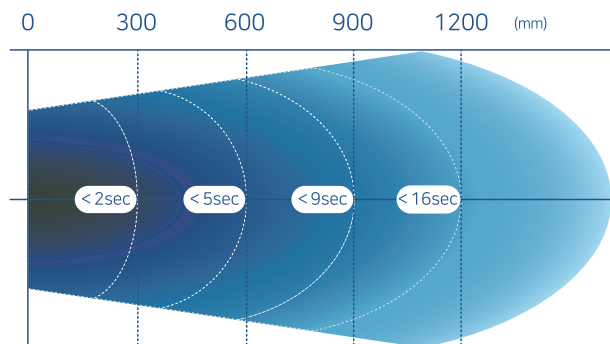
Discharge time and balance measured according
to ANSI/ESD STM3.1 using a Charge Plate Monitor (CPM)

Size & Dimensions (mm)

152
125
135
154.5
130
64.5
57
59
62
69.5

CORE INSIGHT 코어인사이트(주)