

Model 310 Series

ENHANCED CoreStat® Self-Balanced Air Ionizing Blower



FEATURES

- Steady-State DC Ion Emission
- Self-Balance Technology
- Compliance with ANSI/ESD S20.20
- RJ-45 Terminal for FMS
- LED & Audio Alarms
- One-Touch Auto-Cleaning
(Excluding Model 310S)

BENEFITS

- No Calibration
- Low Offset Voltage
- No High-Voltage Switching
- Easy Emitter Point Replacement
- Transient Noise-Free

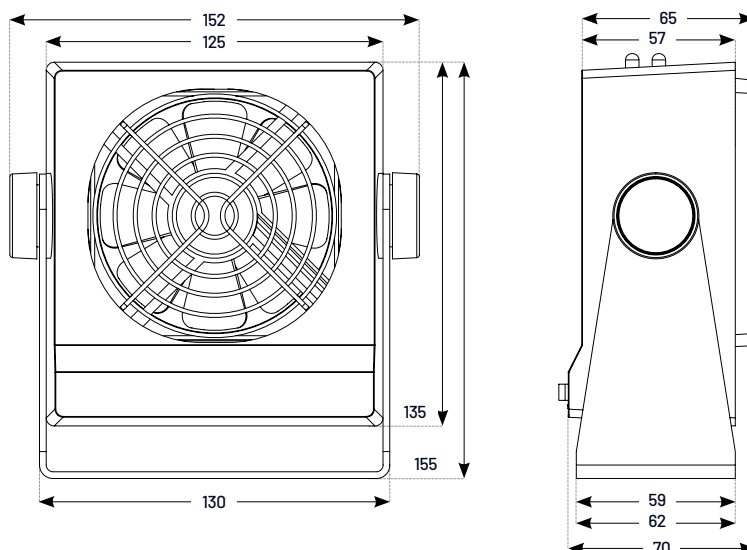
APPLICATIONS

The Model 310 Series, featuring CoreStat self-balancing steady-state DC ionization technology, is designed for Class 0 ESD control in semiconductor assembly, test, and PCB handling processes. The unique one-touch automatic cleaning system temporarily powers down the unit for a few seconds and then automatically returns to normal operation after the cleaning cycle is completed.

SPECIFICATIONS

	310E	310S/SE
Input Voltage	24VDC, 6.9 W Max	
Ion Emission	Steady-State DC Technology	
Ion Balance	± 10 V Peak Offset Voltage	± 20 V Peak Offset Voltage
Discharge Time	Less than 3 seconds at 300 mm	Less than 2 seconds at 300 mm
Air Flow	60 CFM	100 CFM
Alarm	LED & audio alarms activate when balance limits cannot be maintained or when HV power failure occurs.	
Monitoring	RJ-45 Terminal for FMS Interface	
Operating Environment	Temperature : 15 - 35°C / Humidity : 35 - 75 % RH	
Material	Enclosure : ABS plastic	
Dimensions (mm)	125 W x 135 H x 70 D mm (without Stand) / 152 W x 155 H x 70 D mm (with Stand)	
Compatibility	ISO 14644-1 Class 4	
Weight	580 g (with Stand)	
Warranty	2 year limited warranty	
Certification	  	

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	Open	Closed	High
Balance alarm	Closed	Open	High

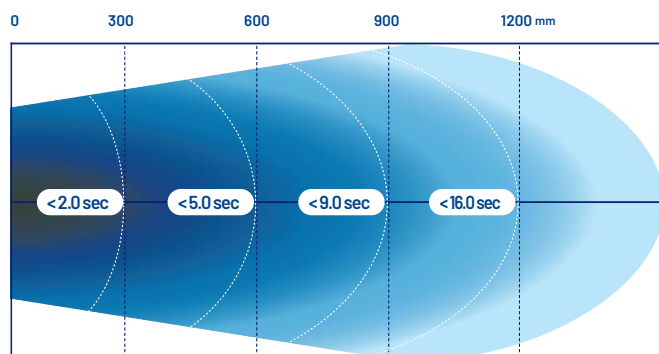
PRODUCT INFORMATION

Model 310E	Moderate Fan Speed / One-Touch Cleaning System
Model 310S	High Fan Speed General Type
Model 310SE	High Fan Speed / One-Touch Cleaning System

RELATED PRODUCTS

Model 5310EP	99.99% Tungsten Emitter Point
Model 5310GF	Rear Panel Grill Filter
Model 5310AC	Auto-Cleaning Brush

DISCHARGE TIME



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



Ion Balance &
HV Power
Fault Alarms

One-Touch
Automatic
Cleaning System

RJ-45 Terminal
for FMS