

# Auto-Balanced Ionization System

## Model 3830

## Overhead Ionizing Blower



### Features

- CoreStat Auto-Balanced Technology
- Steady-state DC Ion Emission
- Low Balance
- Facility Monitoring System(FMS) Interface
- Alarm (HV Power Fail, Balance Fail)
- Personal Safety Fan Grill Cover
- IR Remote control
- Fan Speed Adjustable

### Benefits

- No Calibration Required
- 4-20mA Current Loop and Relay Output Monitoring
- Alarm (Visual , Audio)
- Emitter Point Easy Clean and Replace
- Alarm Output Connect to Process Equipment
- Versatile Application

### 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.

Model 3830 has designed versatile applications for semiconductor backend, printed circuit board assembly and general electronics applications.

Model 3830 ionizing Blower doesn't required regular based calibration. It has intrinsically maintain low offset voltage within a specification. Alarm output monitoring interface will allow real time ionizer status monitoring and give visual & audio alarms when HV power fail and imbalance situation.

# Model 3830 Overhead Ionizing Blower



## Specifications

Input Voltage	100 ~ 240V AC, 1A Maximum
Ion Emission	Steady-State DC Technology
Ion Balance	< ±5V
Discharge Time	± 1000V to ±100V less than 1 sec at 45cm
Aif Flow	100 CFM ~ 150 CFM
Emitter Point	Tungsten 99.99%
Alarm Function	Visual (LED), Audio (Buzzer) when HV Power Fail Out of Balance Alarm (Factory Set)
Output Monitoring	FMS Interface
Material	Enclosure - ABS (Gray), Filter Cover - ABS (Black) Bracket - ABS (Gray)
Option	IR Remote Controller
Operating Environment	Temperature: 15 ~ 35°C Relative Humidity: 35 ~ 75% RH
Dimensions	1000W x 118H x 180D mm
Weight	3.6kg
Warranty	2 year Limited

## Status

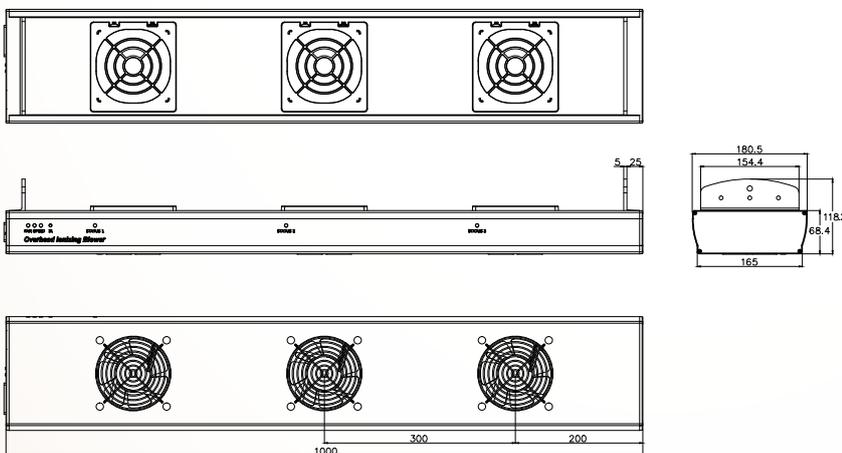
Mode	Visual	Audio
Normal Operation	GREEN	Inactivate
HV Power Fail	RED	Continuous Sound
Balance Fail	RED	Cutting Sound

## FMS

Facility Monitoring System Output Signals			
Condition	FMS 1 ~ 2	FMS 4~5	FMS 3~6
Normal	Open	4 ~ 5mA	Open
Alarm	Closed	17 ~ 20mA	Closed
Power OFF	Closed	Open	Closed

Pin No.	Description
FMS 1	Alarm relay output
FMS 2	Relay common
FMS 3	Balance Alarm relay output
FMS 4	Current output for each operation
FMS 5	Current output reference ground
FMS 6	Balance Relay common

## Product Length and Detail Size (mm)



## Model 3830 Discharge Time

