

Auto-Balanced Ionization Systems

Model 3110 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)
- Filter case Safety Function

BENEFIT

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

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 auto-balanced technology, Model 3110 has designed versatile applications for semiconductor backend, printed circuit board assembly and general electronics applications. Model 3110 ionizing blower doesn't required regular based calibration and intrinsically maintain low offset voltage within a spec.

Facility monitoring system interface will allow real time ionizer status monitoring and give visual(LED) & audio(buzzer) alarms when HV power fail or Balance fail



<Alarm status>



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Specifications

Input Voltage	24V DC, 13W (Maximum)
Ion Emission	Steady-State DC Technology
Balance	< ±20V
Discharge	±1000V to ±100V less than 2 seconds at 30cm
	±1000V to ±100V less than 4 seconds at 60cm
Air flow	140 CFM (Maximum 151 CFM)
Emitter Point	Tungsten 99.99%
Alarm Function	Visual(LED), Audio(Buzzer)
	HV Power fail, Balance fail
Output Monitoring	FMS Interface
Material	Ionizer body- ABS (Gray)
	Filter cover- ABS (Black)
	Bracket- Aluminum
Operating Environment	Temperature : 15~35°C, Humidity : 35~85% RH
Dimensions (W×H×D)	148×185×76.6 mm (with bracket 188*204.5*76.6mm)
Weight	980g (with bracket)
Warranty	1year

Mode	Visual	Audio
Normal Operation	Green	Inactivate
HV Power Fail	Red	Continuous Sound
Balance Fail	Red	Cutting Sound

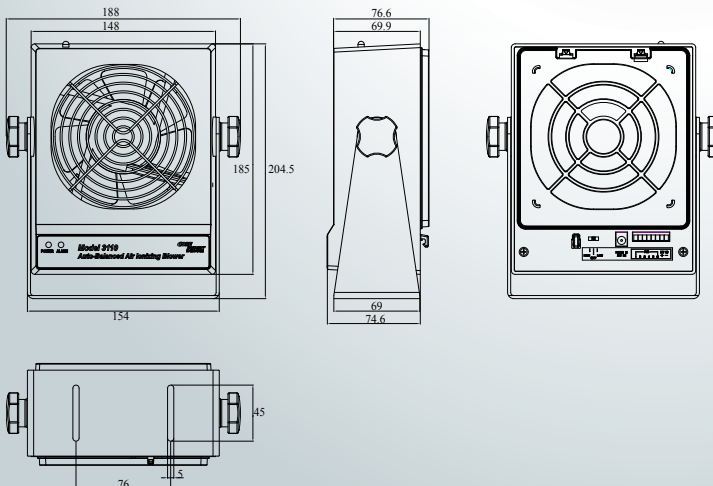
Pin No.	Description
FMS 1	Alarm relay output
FMS 2	Relay common
FMS 3	Balance Alarm relay output
FMS 4	Current output for each operation
FMS 5	Current output reference ground
FMS 6	Balance Relay common

Facility Monitoring System Interface

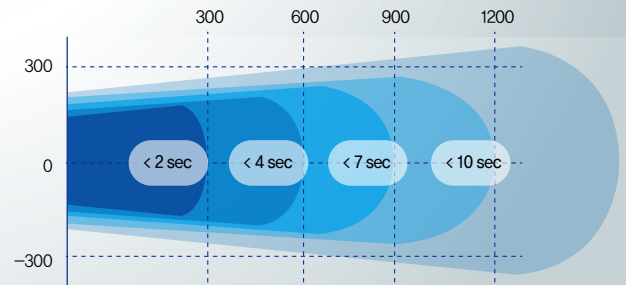


Facility Monitoring System Output Signals			
Conditions	FMS 1~2	FMS 4~5	FMS 3~6
Normal	OPEN	4 ~ 5mA	OPEN
Alarm	CLOSED	17 ~ 20mA	CLOSED
Power OFF	CLOSED	0mA	CLOSED

Sizes & Dimensions (mm)



Model 3110 Discharge Time



Accessories - wall mount Adapter(24VDC, 1A)

