Model 3820E

CoreStat® Overhead Ionizing Blower

FEATURES

· CoreStat® Self-Balanced Technology
· Steady-State DC Ion Emission
· Low Offset Voltage
· Output Monitoring for Balance and Failures
· Auto-Stop & Auto-Cleaning
· Three Step Fan Speed Adjustment
· IR Remote Control
· Daisy-Chained AC Power Distribution

BENEFITS

· Slim Design
· No Calibration Required
· Neutralize Entire Workstation
· Fast Discharge Time
· Easy Cleaning and Replacement of Emitter Points
· Audio & Visual Alarms

APPLICATIONS

Core Insight's innovative design CoreStat® Model 3820E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3820E is designed to be very reliable for long-term operation without cleaning or calibration for semiconductor, flat panel display, and general electronic assembly applications.

Model 3820E Overhead Ionizing Blower can discharge less than 3 seconds at 450mm distance. Model 3820E ionizer maintains intrinsic balance less than ±10V for ESDS items. Built-in auto-cleaning brush operates when the fan filter grille is open or power on/off. Audio and visual alarms operate when ion balance exceeded limit and power supply failure. Light weight and slim design allow more conve-nient installation when space is limited.

Model 3820E CoreStat® Overhead Ionizing Blower

Specifications

Input Voltage	100 - 240 VAC, 1A Max
Ion Emission	Steady-state DC Technology
Ion Balance	< ±10V
Discharge Time	Less than 1 sec at 45 cm (high fan speed)
Air Flow	100 ~ 150 CFM, 3 step fan speed adjustment
Alarm	Visual & Audio alarm operates when ionizer can not maintain balance limit and for power failures
Monitoring	FMS 8 channel terminal
Operating Environment	Temperature: 15 - 35℃
	Humidity: 35 - 75% RH
Material	Enclosure & Filter: ABS plastic
	Emitter Points: Tungsten (replaceable)
	Bracket: ABS plastic
Dimensions (mm)	680W x 118H x 180D
Weight	2.9 kg
Warranty	2 year limited warranty
Certification	CE ✔RoHS 2002/95/EC

LED Lights Option

Auto-Cleaning Brush and Grille Opening

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

Purchasing Options

Model 3820	No Cleaning Brush	
Model 3820E	Built-in Auto-Cleaning Brush	
Model 3820L	No Cleaning Brush, LED Lights	
Model 3820EL	Built-in Auto-Cleaning Brush and LED Lights	

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

Discharge Time

< 3sec	0
	450
< 4sec	600
< 6sec	900
< 8sec	1200

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

Related Products

Model 5331R	Fan Speed Remote Control
Model 5380GF	Filter Grille
Model 5390AC	Auto-Cleaning Brush
Model 5820	Intergrated Monitoring & Controlling System for up to 20 units

Model 5820 Ionizer Monitoring System
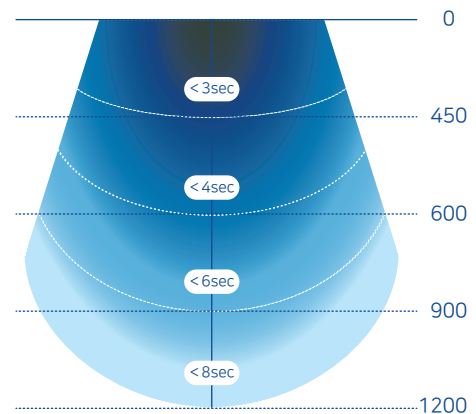
· Balance & HV Failure Alarm
· Port Detection

Size & Dimensions (mm)

680

180

25
5

155
70   120
165

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