Enhanced
Model 3920E
Fast Discharge

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

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 3920E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3920E 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 3920E Overhead Ionizing Blower can discharge less than 6 seconds at 1200mm distance. Model 3920E 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 convenient installation when space is limited.

Fast Discharge

Model 3920E 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 6 sec at 1200 mm (high fan speed)
Air Flow	100 ~ 165 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
Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Certification	CE RoHS 2002/95/EC

LED Lights Option

Auto-Cleaning Brush and Grille Opening

Purchasing Options

Model 3920	No Cleaning Brush
Model 3920E	Built-in Auto-Cleaning Brush
Model 3920L	No Cleaning Brush, LED Lights
Model 3920EL	Built-in Auto-Cleaning Brush and LED Lights

Facility Monitoring System Output Signals

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

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

< 2sec	0
	450
< 3sec	600
< 4sec	900
< 6sec	1200

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

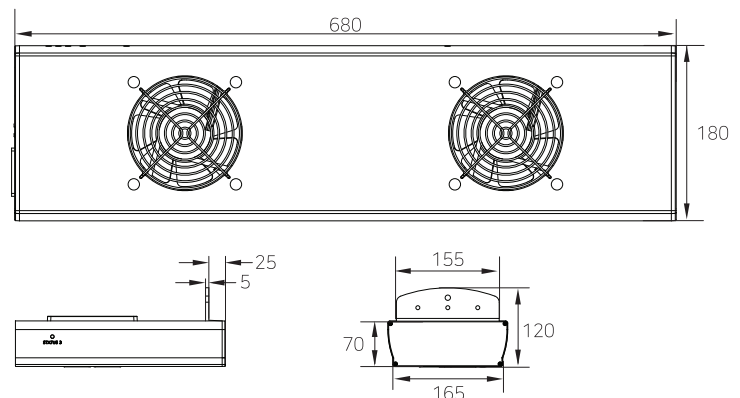## Related Products

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 Power Failure Alarm
· Port Detection
· 24 VDC Distribution Up to 20 units
· All 20 Ionizers Auto-Cleaning at Once

Size & Dimensions (mm)

680

180

25
5

155

70 120

165

CORE INSIGHT
코어인사이트(주)

Enhanced
Model 3930E `Fast Discharge`
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

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 3930E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3930E 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 3930E Overhead Ionizing Blower can discharge less than 5 seconds at 1200mm distance. Model 3930E ionizer maintains intrinsic balance less than ±5V 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 convenient installation when space is limited.

Model 3930E CoreStat® Overhead Ionizing Blower

Specifications

Input Voltage	100 – 240 VAC, 1A Max
Ion Emission	Steady-state DC Technology
Ion Balance	< ±5V
Discharge Time	Less than 5 sec at 1200 mm (high fan speed)
Air Flow	100 ~ 165 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)	1000W x 118H x 180D
Weight	3.6 kg
Warranty	2 year limited warranty
Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Certification	CE RoHS

LED Lights Option

Auto-Cleaning Brush and Grille Opening

Facility Monitoring System Output Signals

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

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

Purchasing Options

Model 3930	No Cleaning Brush
Model 3930E	Built-in Auto-Cleaning Brush
Model 3930L	No Cleaning Brush, LED Lights
Model 3930EL	Built-in Auto-Cleaning Brush and LED Lights

Discharge Time

```
                                          0

              < 1sec
                                          450

              < 2sec
                                          600

              < 3sec
                                          900

              < 5sec
                                          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

Size & Dimensions (mm)

```
                    1000
                                            180

   25
   5              155
          70              120
                  165
```
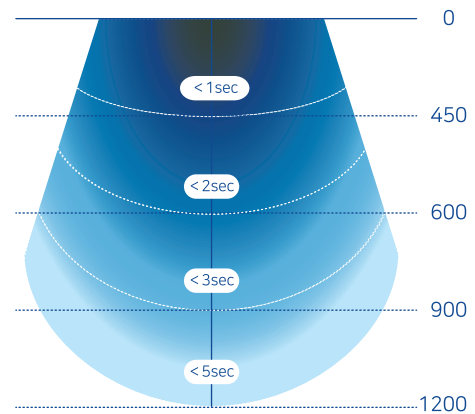
Model 5820 Ionizer Monitoring System

· Balance & HV Power Failure Alarm
· Port Detection
· 24 VDC Distribution Up to 20 units
· All 20 Ionizers Auto-Cleaning at Once

CORE INSIGHT
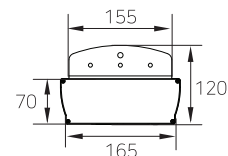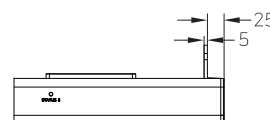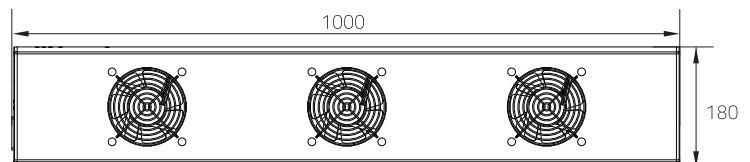코어인사이트(주)

Enhanced
Model 3940E
Fast Discharge

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

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 3940E Overhead Ionizing Blower provides wide area ionization coverage. CoreStat® Model 3940E 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 3940E Overhead Ionizing Blower can discharge less than 5 second at 1200mm distance. Model 3940E ionizer maintains intrinsic balance less than ±5V 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 convenient installation when space is limited.

Fast Discharge

Model 3940E CoreStat® Overhead Ionizing Blower

Specifications

Input Voltage	100 – 240 VAC, 1A Max
Ion Emission	Steady-state DC Technology
Ion Balance	< ±5V
Discharge Time	Less than 5 sec at 1200 mm (high fan speed)
Air Flow	100 ~ 165 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)	1200W x 118H x 180D
Weight	4.3 kg
Warranty	2 year limited warranty
Compatibility	ISO 14644-1 Class 4 Cleanroom Compatible
Certification	

CE   RoHS 2002/95/EC

LED Lights Option

Auto-Cleaning Brush and Grille Opening

Facility Monitoring System Output Signals

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

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

Purchasing Options

Model 3940	No Cleaning Brush
Model 3940E	Built-in Auto-Cleaning Brush
Model 3940L	No Cleaning Brush, LED Lights
Model 3940EL	Built-in Auto-Cleaning Brush and LED Lights

Discharge Time

< 1sec	0
	450
< 2sec	600
< 3sec	900
< 5sec	1200

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

Related Products

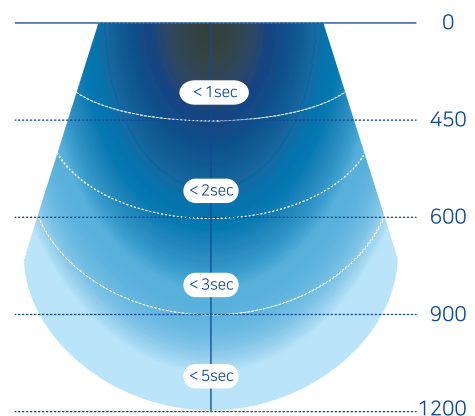| Model 5331R	Fan Speed Remote Control
Model 5380GF	Filter Grille
Model 5390AC	Auto-Cleaning Brush
Model 5820	Intergrated Monitoring & Controlling System for up to 20 units

Model 5820 Ionizer Monitoring System

· Balance & HV Power Failure Alarm
· Port Detection
· 24 VDC Distribution Up to 20 units
· All 20 Ionizers Auto-Cleaning at Once

Size & Dimensions (mm)

1200
180
25
5
155
70
120
165

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