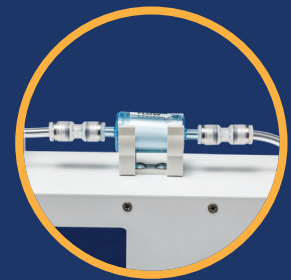# *INNOVATIVE*
Model 472A
CoreStat® Self-Balanced Gun Ionizer

FEATURES

· CoreStat® Self-Balanced Technology
· Steady-State DC Ion Emission
· Cleanroom Application
· Low Balance
· Air Pressure Adjustable (Model 472C)
· Single Crystal Silicon Emitter (Optional)

BENEFITS

· No Calibration Required
· Audio & Visual LED Alarms
· Replaceable HEPA Filter
· Particle Contamination Cleaning
· Air Pressure & Volume Adjustable

APPLICATIONS

Electrostatic force is a typical source of micro particle contamination in semiconductor, flat panel display, hard disk and other high-tech industry. It is very hard to remove particle once they attracted on the charged surface of materials. Charge neutralization is important for remove particles from the surface.

CoreStat® self-balanced technology, Model 472A gun ionizer is designed for cleanroom applications for semiconductor, flat panel display, hard disk and other high-tech industry. Strong ionized air force is effective for removing particles attracted objects. Model 472A gun ionizer does not required regular based calibration due to intrinsically maintain low offset voltage within a designed specification.

Visual (LED) and audible (buzzer) alarms operates when high voltage power supply fail. Model 472C controller has air pressure adjustable knob and HEPA filter efficiency is 99.99% at 0.1 micrometer.

Model 472A CoreStat® Self-Balanced Gun Ionizer

Specifications

Input Voltage	24 VDC, 2 W Max.
Ion Emission	Steady-state DC Technology
Ion Balance	Less than ±15 V average
Discharge Time	Single Crystal Silicon Emitter: Less than 2 sec (0.3 Mpa / 15cm)
	Tungsten Emitter: Less than 1 sec (0.3 Mpa / 15cm)
Emitter Point	Single Crystal Silicon or Tungsten emitter
Alarm	Visual & Audio alarm operates when ionizer can not maintain power failures.
Air Pressure	0.1 - 0.5 Mpa
Filter Efficiency	99.99% at 0.1 µm
Air Inlet	6mm Inlet
Operating Environment	Temperature: 15 - 35℃
	Humidity: 35 - 75 % RH
Material	Enclosure: ABS plastic
	Nozzle: Teflon
Dimensions (mm) & Weight	Model 472: 154W x 162H x 3D, 210g
	Model 472C: 420W x 134H x 80D, 1.5kg
Warranty	1 year limited warranty
Certification	CE RoHS 2002/95/EC

· Ergonomic Designs
· Air Pressure & Volume Adjustable
· HV Power Faile Alarm
· Easy Access for Manual Cleaning

Selection

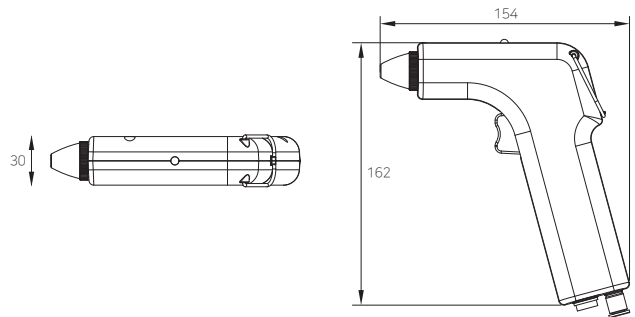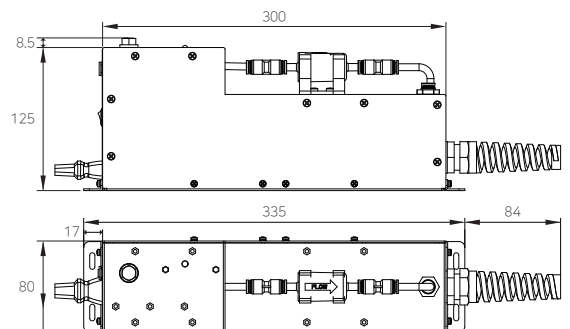| Model 472A | Cleanroom Application |
| | Available to Adjust Air Pressure & Volume (Model 472C) |
| Model 470 | Versatile Application |

Related Products

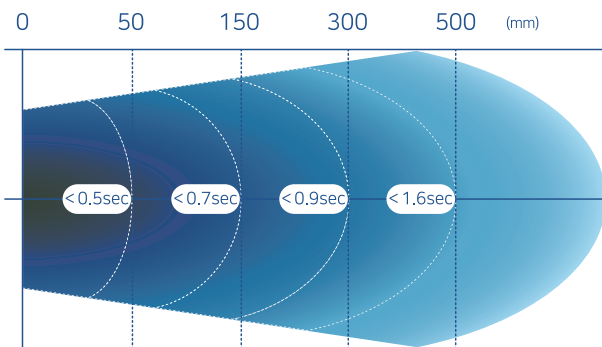| Model 5233ES	Single Crystal Silicon Emitter
Model 5360EP	Tungsten (99.99%) Emitter
Model 472C	Compressed Air Controller
	Model 472 Cleanroom Compatible Gun Only
Model 5470F	HEPA Filter for Model 472C

Size & Dimensions (mm)

[Model 472]

154
30
162

[Model 472C]

300
8.5
125
335
84
17
80

Discharge Time

0   50   150   300   500   (mm)

< 0.5sec   < 0.7sec   < 0.9sec   < 1.6sec

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