

# Model 470 Series

**INNOVATIVE** CoreStat® Self-Balanced Gun Ionizer

## FEATURES

- Steady-State DC Ion Emission
- Low Ion Balance
- Alarm for HV Power fail
- Audio & LED Alarm
- Replaceable HEPA Filter only 472A
- IR Sensor

## BENEFITS

- No Calibration Required
- Ergonomic Design
- Particle Contamination Cleaning
- Adjustable IR sensor distance

## APPLICATIONS

CoreStat® Steady-State DC Technology Gun Ionizer, Model 470 Series\*\* has designed to maintain at low peak offset voltage for particle removal and ESD controls in cleanroom environment. Maintain low offset voltage is most important parameter for CDM control than just simply fast discharge.

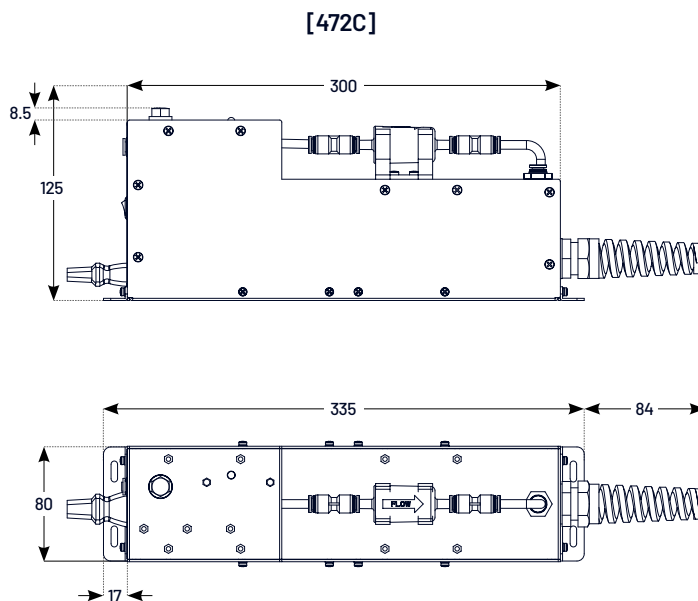
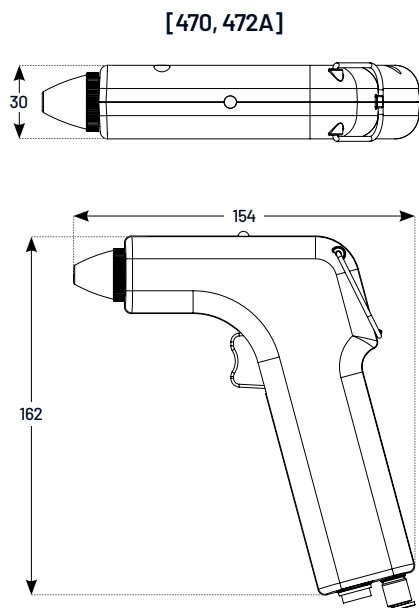
Model 470 Series is an ergonomic design gun ionizer. Designed to particle removal on charge surface along with clean dry air (CDA) and a compact size allows easy to use. Model 470 is optimized for particle removal applications, while Model 472A further provides fast discharge capability with a built-in HEPA filter that removes moisture, oil, and other contaminants from the supplying air. CoreStat® Self-Balanced Technology to maintain low offset voltage with no induction fields that can cause ESD damage from AC ionizers. CoreStat® technology does not requires grounding and LED on the gun indicates ionizer status.



## SPECIFICATIONS

|                       | 470                                                                                                                                                                                                                                                          | 472A                                                                                 |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Input Voltage         | 24V DC, 6.9 W Max                                                                                                                                                                                                                                            |                                                                                      |
| Ion Emission          | Steady-State DC Technology                                                                                                                                                                                                                                   |                                                                                      |
| Ion Balance           | Less than $\pm 10$ V average                                                                                                                                                                                                                                 |                                                                                      |
| Discharge Time        | Single Crystal Silicon Emitter : Less than 2 seconds at 150 mm / Tungsten Emitter : Less than 1 second at 150mm                                                                                                                                              |                                                                                      |
| Emitter Point         | Tungsten 99.99%                                                                                                                                                                                                                                              | Single Crystal Silicon or Tungsten Emitter                                           |
| Air Pressure          | 0.1 to 0.5 MPa                                                                                                                                                                                                                                               |                                                                                      |
| Air Inlet             | 6mm Inlet                                                                                                                                                                                                                                                    |                                                                                      |
| Operating Environment | Temperature: 15 - 35 °C, nominal / Humidity: 35 - 75% RH                                                                                                                                                                                                     |                                                                                      |
| Material              | Enclosure: ABS plastic, Nozzle: Teflon                                                                                                                                                                                                                       |                                                                                      |
| Dimensions & Weight   | 154 W x 162 H x 30 D, 215 g                                                                                                                                                                                                                                  | Model 472 : 154 W x 162 H x 30 D, 210 g<br>Model 472C : 420 W x 134 H x 80 D, 1.5 kg |
| Warranty              | 1 year limited warranty                                                                                                                                                                                                                                      |                                                                                      |
| Certification         |    |                                                                                      |

## SIZE & DIMENSIONS (mm)



## 제품 정보

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| <b>Model 470</b>  | Versatile Application                                                        |
| <b>Model 472A</b> | Cleanroom Application Available to Adjust Air Pressure & Volume (Model 472C) |

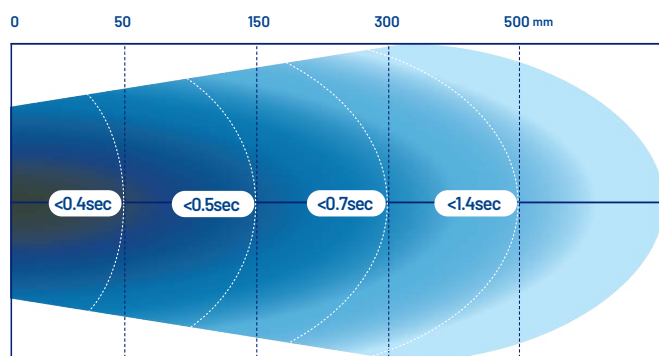


## 관련 제품

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



## DISCHARGE TIME



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

