



Models 2U500 RAIL, 1U400 RAIL & 1U200 RAIL ALPHA  
**Staticmaster® Linear Rail Ionizers**

#### APPLICATIONS:

- Front-end semiconductor, back-end semiconductor

#### FEATURES:

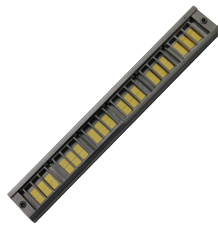
- Intrinsically safe design
- No external power supply
- Flexible options for maximum ionization

#### BENEFITS:

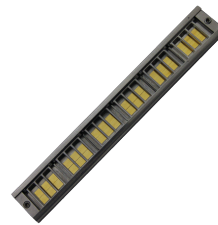
- No emitter points to clean
- No need for electrical power
- Safe and easy to install
- Clean Technology

## Staticmaster® Linear Rail Ionizers

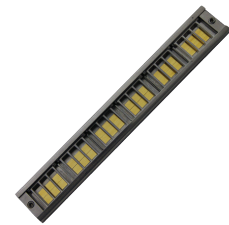
Models 2U500 RAIL, 1U400 RAIL & 1U200 RAIL



MODEL 2U500 RAIL



MODEL 1U400 RAIL



MODEL 1U200 RAIL

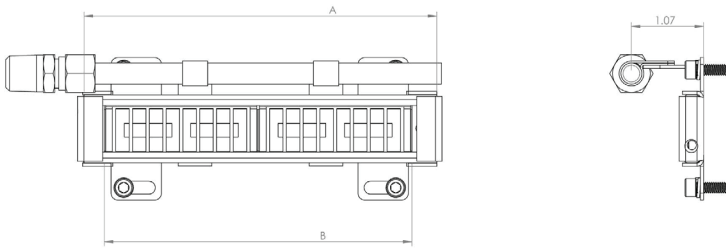
The Staticmaster Linear Rail Ionizers are **ideal for eliminating particulate in cleanroom applications, such as semiconductor front and backend.**

Because no external power source is required to operate the Linear Rail Ionizers, they are an **economical and effective** means to eliminate static.

Each Staticmaster Linear Rail Ionizer model offers an optional accessory, Model 4275, that adds additional air moving capabilities through the use of an attached brass or stainless steel air tube.

# Models 2U500 RAIL, 1U400 RAIL & 1U200 RAIL ALPHA Staticmaster® Linear Rail Ionizers

## Schematics:



## Accessories:



**1U400 Rail with Optional Air Tube**  
(available in brass or stainless steel)  
Model 4275

## Maintenance:

It is necessary to replace ionizers every 12 months to maintain peak effectiveness.

**NOTE ON ION SOURCE:** All NRD ion sources are encapsulated in precious metals by means of a special patented process. This results in a static eliminator which, unlike competitive products, resists oxidation, solvents, heat, cold and vibration.

## Specifications:

**Activity (Models 2U500 Rail & 1U400 Rail):** 0.5 mCi (18.5 MBq)

**Activity (Model 1U200 Rail):** 0.25 mCi (9.25 MBq) or 0.10mCi (3.7 MBq)

**Balance:**  $\pm 0$  V

**Dimensions (Model 2U500 Rail):** 1.75in W x 0.28in H x 5.09in to 39.45in L (44.45 mm x 7.11 mm x 129.29mm to 1002.03 mm)

**Dimensions (Models 1U400 Rail & 1U200 Rail):** 1.75in W x 0.28in H x 2.54in to 38.12in L (44.45 mm x 7.11 mm x 64.52mm to 968.25mm)

**Height with mounting brackets:** 0.33in H (8.38 mm)

**Height/Length with 4275 Air Tube:** 1.38in H (35.05mm)/L adds 1.5in (8.1mm) to overall length

**Enclosure:** Stainless Steel

**Gas Input:** Clean, dry air or inert gas for use with 4275 Air Tube

**Line Connection:** ¼ in NPT

**Technology:** Alpha

### DECAY RATE: 2U500

.44 seconds grounded ( $\pm 1000$  to 100V)  
@ 1 inch (25.4 mm)

1.21 seconds grounded ( $\pm 1000$  to 100V)  
@ 2 inches (50.8 mm)

3.34 seconds grounded ( $\pm 1000$  to 100V)  
@ 3 inches (76.2 mm)

### 1U400

4.39 seconds grounded ( $\pm 1000$  to 100V)  
@ 3 inches (76.2 mm)

### 1U200

5.83 seconds grounded ( $\pm 1000$  to 100V)  
@ 3 inches (76.2 mm)

**NOTICE:** NRD expressly warrants that, for a period of one (1) year from the time of purchase, the ionizer will be free of defects in material (parts) and workmanship (labor).