

# Soft X-ray Ionizer

## Electrostatic Total Solution

### SXH-10F

You can extend X-ray window and control beam direction using flexible arm (length: 500mm). With this arm you can ionize over small area or specific area you want to ionize. Also, small X-ray window allows ionization at small / narrow space.

### Key Features

- X-ray radiating direction can be controlled with flexible arm (length:500mm) and this brings you easier, convenient installment condition
- Downsized tube makes possible to install in limited area



• Ionizer (SXH-10F)



• Controller (SXC-10 Series)

### Specifications

- Ionizer (SXH-10F)

Parameter	Description / Value
Ion Generation Method	Soft X-ray
Source	Soft X-ray Tube
Tube Voltage	11kV
Beam Angle	150°
Power Consumption (With Cont.)	Max. 10W (Based on 1 Head)
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH
Weight	0.75kg
Warranty	1 year

- Controller (SXC-10 Series)

Parameter	Description / Value		
	SXC-10	SXC-102	SXC-104
Input Power	AC 100~240V, 50/60Hz		
Power Consumption (With Ionizer)	26W	47W	56W
Fuse	250V, 3A, 5X20 Glass Type Fuse		
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH		
Weight	0.73kg	0.97kg	1.22kg
Alarm	Head Fail, Head Abnormal		
Warning	Life Time Over		
Interlock	Interlock On/Off Control		
Remote	Remote On/Off Control		
Interface Output	Power State, Interface State, Run State, Alarm State		
Warranty	1 Year		

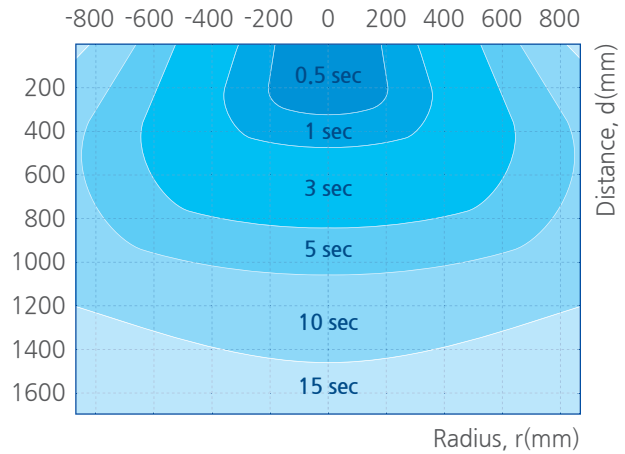
※ The appearance and specification of the product may be changed without prior notice for the improvement of the product.

# Soft X-ray Ionizer

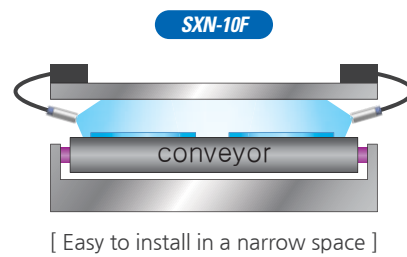
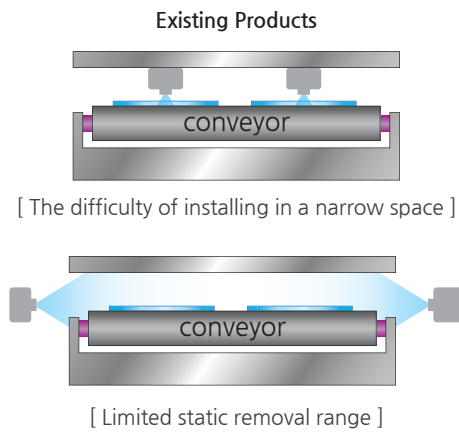
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## Performance

- Decay Time :  $\pm 1,000V$  to  $\pm 100V$
- Charge Plate Capacitance : 20pF (150 X 150mm)
- Temperature & Humidity : 24°C, 50%RH
- Model : SXN-10F

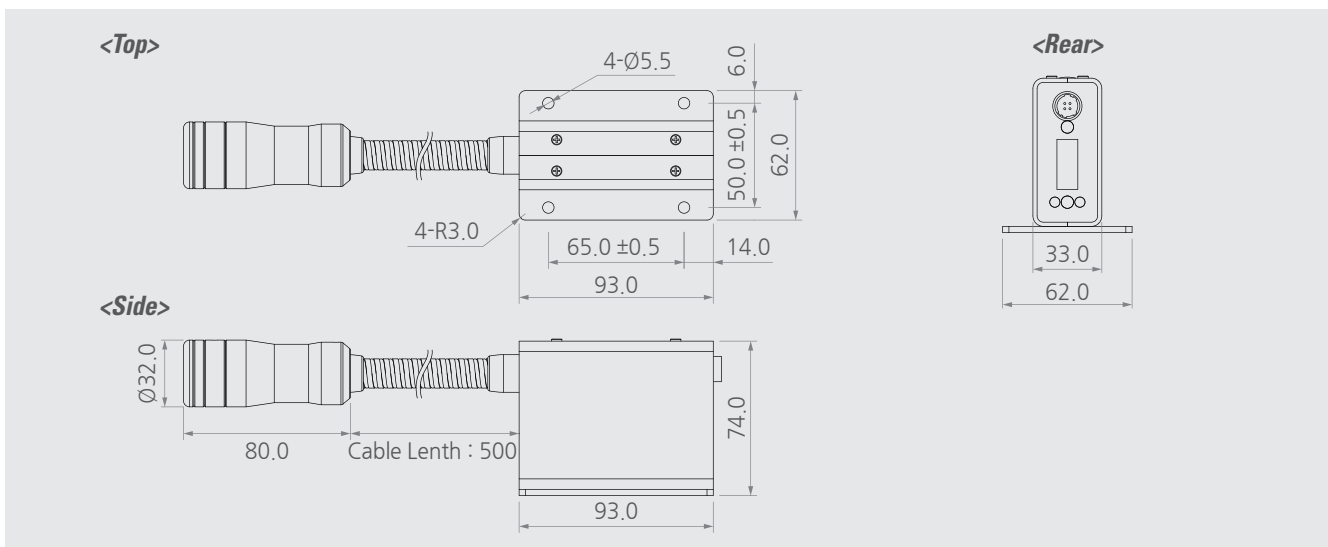


## Application



Can be installed and applied in various environment.

## Dimensions



# Radiation Shielding methods

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## What are soft X-rays?

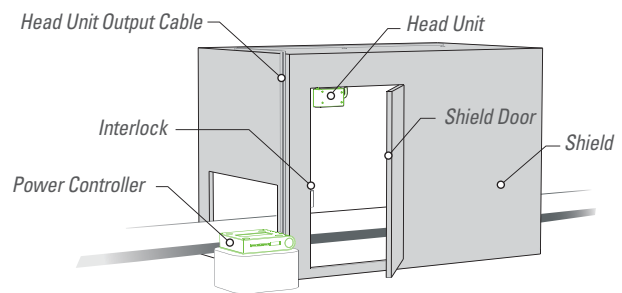
X-ray can be sorted according to its penetrating power, and an X-ray which has weaker penetrating power that can be absorbed easily in thin layer of the air is called the soft X-ray.

### Benefits of Soft X-ray ionizer

- Perfect Ion Balance ( $\pm 0V$ )
- No CDA (Clean Dry Air) required
- No dust generation
- No ozone (O3) generation
- High ion generation density
- Static electricity can be removed even under inert gas conditions such as N2 and Ar

## Shield installation compositions

- \* Please be careful to avoid direct exposure from the soft X-ray, since it may cause any skin problems. Therefore, you need to shield the area where X-ray emits in order to protect yourself.
- \* Please keep in mind that allowed leakage level for radiation dose is 10 $\mu$ Sv/hr or under, So keep your area under the mentioned level all the time. (The leakage level of radiation dose might differ in countries)
- \* Please refer to the below chart for possible materials of shielding and its acceptable thickness.



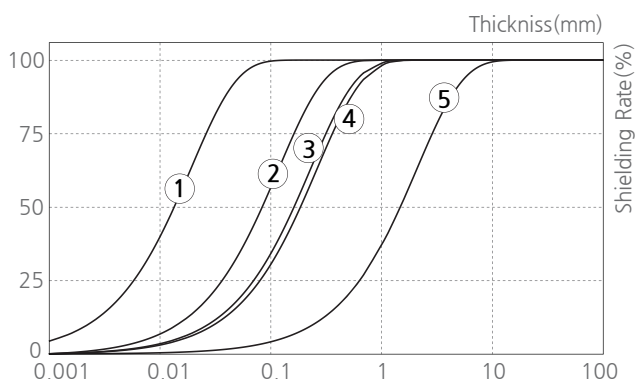
### Radiation

With radiation You can ionize some substance, Energy flow that radiated substance generates.

Radiation is neither accumulated nor contaminated. Due to uncertainty that human cannot judge by five senses, its danger is exaggerated than the actual. Radiation can be made intentionally, but also stays in the nature at all times just like other energy flow.

## Shielding methods

See the following graph for references. Select the ideal tickness and quality of shielding material.



No.	Shield Material	Thickness [mm]
①	SUS	Over 0.3
②	Aluminium	Over 2.0
③	Glass	Over 4.0
④	PVC	Over 4.5
⑤	Acrylic	Over 40.0

### Warning

- \* Please shield the area where the customer is willing to install the soft X-ray device for safety issue.
- \* After shielding process, please connection to your own interlock system to operate the X-ray device On/Off when the door is opened/closed.