

Soft X-ray Ionizer

Electrostatic Total Solution

SXB-05NRL Series

A connection type that can use multiple electrostatic removal devices with one controller. This is bar type ionizer having 1 to 9 X-ray windows so that is effective for ionizing wide area. Slim size is useful to be installed in various conditions and module structure (Rotate type replaceable tube) makes it easy to replace.



SXB-05NRL (Ionizer)

Key Features

- A connection type that can use multiple electrostatic removal devices with one controller
- No CDA needed, No scattering particle problem
- $\pm 0V$ Ion Balance
- Managing process under 100V constant voltage
- Easy attachable/detachable Module structure
- Slim size is useful to be installed in various conditions
- Purchasing by the individual parts brings economic savings
- With RMS(Real Monitoring System), possible to check operation status in real time (Option) Patent



SXC-10BT (Controller)

Specifications

Parameter	Description / Value
Ion Generation Method	Soft X-ray
Source	Soft X-ray Tube
Tube Voltage	4.9kV
Beam Angle	150°
Power Consumption (With Controller)	Max. 130W
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH
Controller	SXC-10BT only
Warranty	1 year

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

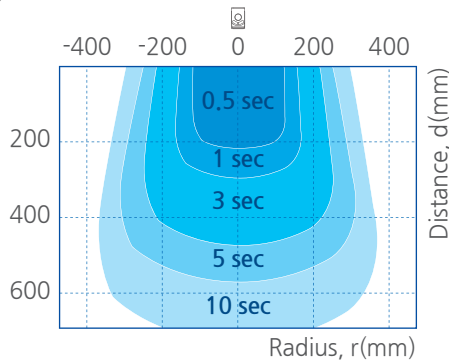
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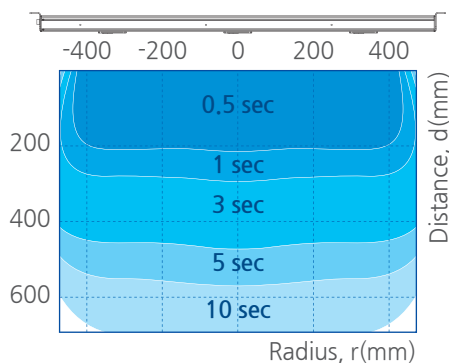
Decay Time Characteristics

- Model : SXB-05NRL-900-3
- Decay Time : $\pm 1,000V$ to $\pm 100V$
- Charge Plate Capacitance : 20pF(150 X 150 mm)
- Temperature & Humidity : 24°C, 50%RH

< Side >

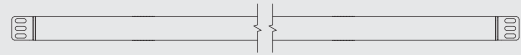


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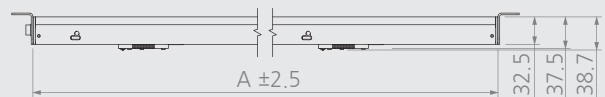


Dimensions

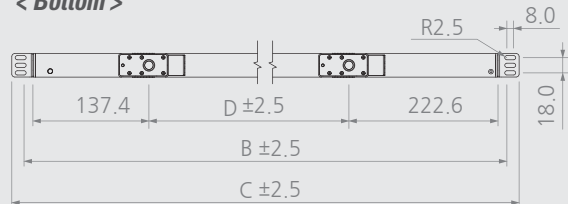
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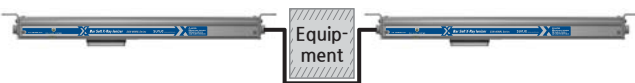
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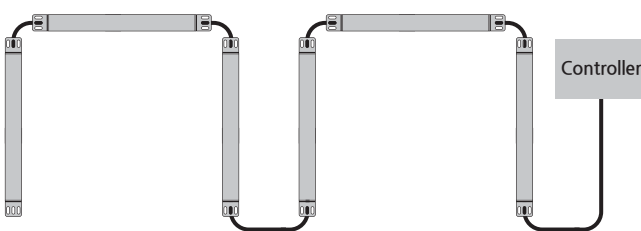
No.	Model No.	A	B	C	D	Tube Q'ty
1	SXB-05NRL-300-1	360	381	437	-	1
2	SXB-05NRL-600-2	671	692	721		2
3	SXB-05NRL-900-3	982	1003	1032	311	3
4	SXB-05NRL-1200-4	1293	1314	1343		4
5	SXB-05NRL-1500-4	1604	1625	1654	414.6	4
6	SXB-05NRL-1500-5	1604	1625	1654	311	5
7	SXB-05NRL-1800-5	1915	1936	1965	388.8	5
8	SXB-05NRL-1800-6	1915	1936	1965	311	6
9	SXB-05NRL-2200-6	2226	2247	2276	373.2	6
10	SXB-05NRL-2200-7	2226	2247	2276	311	7
11	SXB-05NRL-2500-7	2537	2558	2587	362.8	7
12	SXB-05NRL-2500-8	2537	2558	2587	311	8
13	SXB-05NRL-2800-7	2848	2869	2898	414.6	7

Application

- When multiple ionizers are required



- If there are obstacles in the installation site



Radiation Shielding methods

Electrostatic Total Solution

What are soft X-rays?

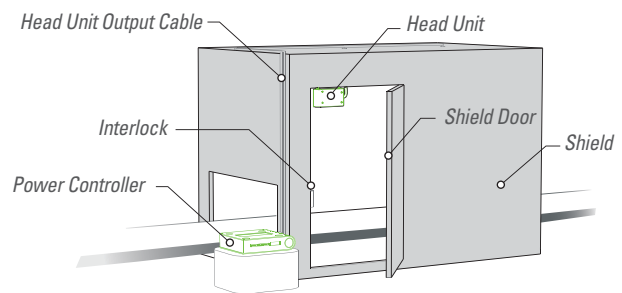
X-ray can be sorted according to its penetrating power, and an X-ray which has weaker penetrating power that can be absorbed easily in thin layer of the air is called the soft X-ray.

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 $1\mu Sv/hr$ 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.



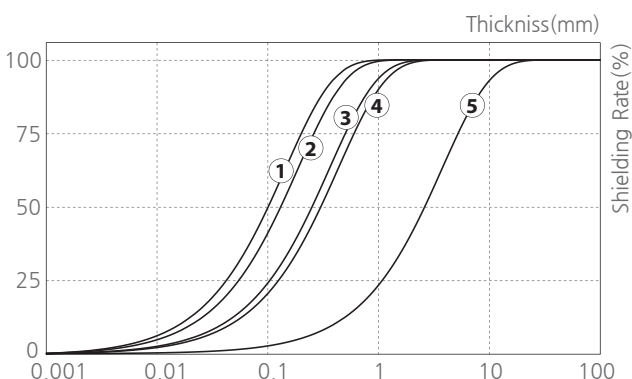
Radiation

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 0.2
②	Aluminium	Over 0.25
③	Glass	Over 0.5
④	PVC	Over 0.6
⑤	Acrylic	Over 5.0

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.