

Soft X-ray Ionizer

Electrostatic Total Solution

SXB-05WR

This ionizer is waterproof & dustproof structure for humid environment and bar type for wide range ionization. (able to use X-ray tubes from 1 ~ 9) Optimized for air knife area and available to use in various circumstance with its slim size. module structure (Rotate type replaceable tube) makes it easy to replace.

Key Features

- Possible to use in Waterproof and Dustproof structure (IPX7 / IP5X grade)
 - ※ IPX7 grade : Protected against the effects of temporary submersion in water.
 - ※ IP5X grade : Protected against access to hazardous parts. Dust protected.
- Prompt tube replacing on the spot
- External controller type
- Possible to maintain long-term performance
- With RMS(Real Monitoring System) possible to check operation status in real time (Option) Patent



• Ionizer (SXB-05WR)



• Controller (SXC-10BT)

Specifications

- Ionizer (SXB-05WR)

Parameter	Description / Value
Ion Generation Method	Soft X-ray
Source	Soft X-ray Tube
Tube Voltage	4.9kV
Beam Angle	150°
Power Consumption (With Cont.)	Max. 130W
Waterproof Grade	IPX7
Dustproof Grade	IP5X
Operation Circumstance	0℃ ~ +50℃(32°F ~ 122°F), 35% ~ 85% RH
Warranty	1 year

- Controller (SXC-10BT)

Parameter	Description / Value
Input Power	AC 100~240V, 50/60Hz
Power Consumption (With Bar)	Max. 130W
Operation Circumstance	0℃ ~ +50℃(32°F ~ 122°F), 35% ~ 85% RH
Alarm Function	H/V Abnormal, Communication Error
Interface	Run, Alarm, Power, Over Time, Remote, Interlock
Controller Fuse	250V, 3A, 5X20 Glass Type Fuse
Weight	1.05kg
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

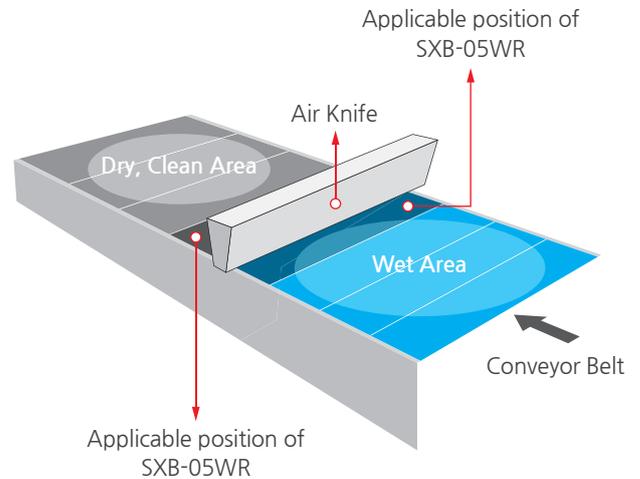
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Performance

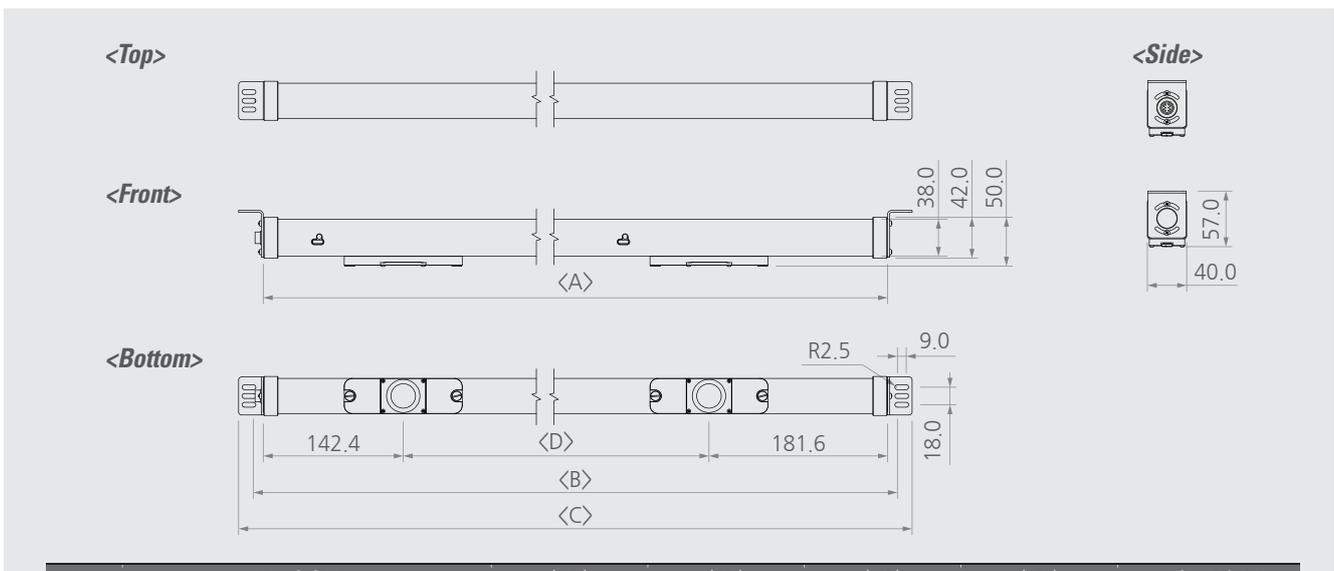
- Model : SXB-05WR-600-2
- Decay Time : $\pm 1,000V$ to $\pm 100V$
- Temperature & Humidity : 24°C, 50%RH
- Charge Plate Capacitance : 20pF (150 X 150mm)

Distance [mm]	Model	Decay Time [sec.]			
		Tube Module-1		Tube Module-2	
		(+)	(-)	(+)	(-)
200	SXB-05WR	2.5	2.6	2.5	2.6

Application



Dimensions



No.	Model No.	< A >	< B >	< C >	< D >	Tube QTY
1	SXB-05WR-300-1	324	344	374	-	1
2	SXB-05WR-600-2	635	655	685	311	2
3	SXB-05WR-900-3	946	966	996		3
4	SXB-05WR-1200-4	1257	1277	1307		4
5	SXB-05WR-1500-5	1568	1588	1618		5
6	SXB-05WR-1800-6	1879	1899	1929		6
7	SXB-05WR-2200-7	2190	2210	2240		7
8	SXB-05WR-2500-8	2501	2521	2551		8
9	SXB-05WR-2800-9	2812	2832	2862		9
10	SXB-05WR-3100-10	3123	3143	3173		10
11	SXB-05WR-3400-11	3434	3454	3484		11

Radiation Shielding methods

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What are soft X-rays?

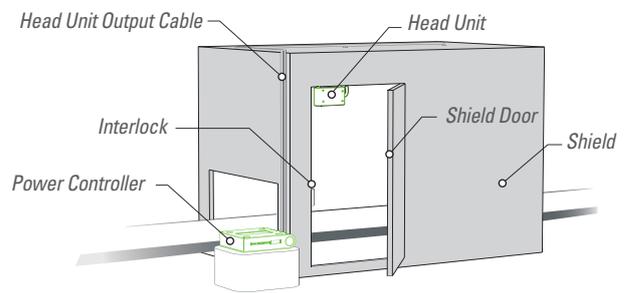
X-ray can be sorted according to its penetrating power, and an X-ray which has weaker penetrating power that can be absorbed easily in thin layer of the air is called the soft X-ray.

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 $1\mu Sv/hr$ 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.



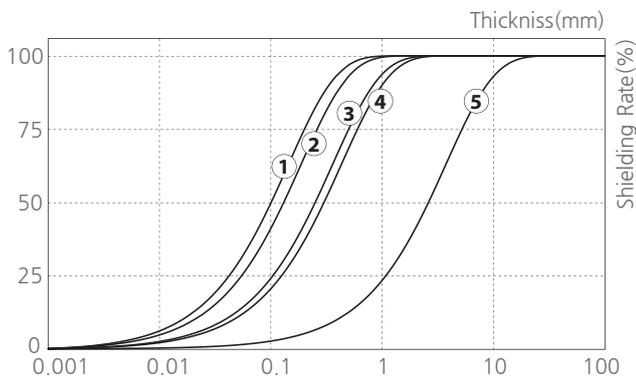
Radiation

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.