

Soft X-ray Ionizer

Electrostatic Total Solution

SXH-05SI

This product which emits soft X-ray ionizes any fluid (N₂, CDA, Etc.) in a transport space. Suitable Ionizer for super clean process as there is no dust, electromagnetic wave, ozone. Module structure type makes tube replacement easy on site as it can be separated or combined. Furthermore, purchase by individual part is economical.

Key Features

- Ionizing fluid (N₂, CDA) in transporting section
- Module structure makes connecting part(3/8inch) combine & separate easy
- Cost saving due to individual Tube module purchase
- With RMS, possible to check operation status in real time (Option) Patent

SXH-05SI Model Name Marking Standard

- S : Sunje
- X : X-ray Ionizer
- H : Head Unit
- 05 : 5kV (Tube voltage less than 5kV)
- S : Seperate (Tube separation type)
- I : In-Line Type (Pipe connection type)



• SXH-05SI Concept



Specifications

Parameter	Description / Value
Ion Generation Method	Soft X-ray
Source	Soft X-ray Tube
Tube Voltage	4.9kV
Beam Angle	150°
Air Purge Supply Pressure	0.1~0.4MPa (CDA [Clean Dry Air], N ₂)
Power Consumption	Max. 10W (Based on Head 1)
Operation Circumstance	0℃ ~ +50℃(32°F ~ 122°F), 35% ~ 85% RH
Weight	0.52kg
Warranty	1 year

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

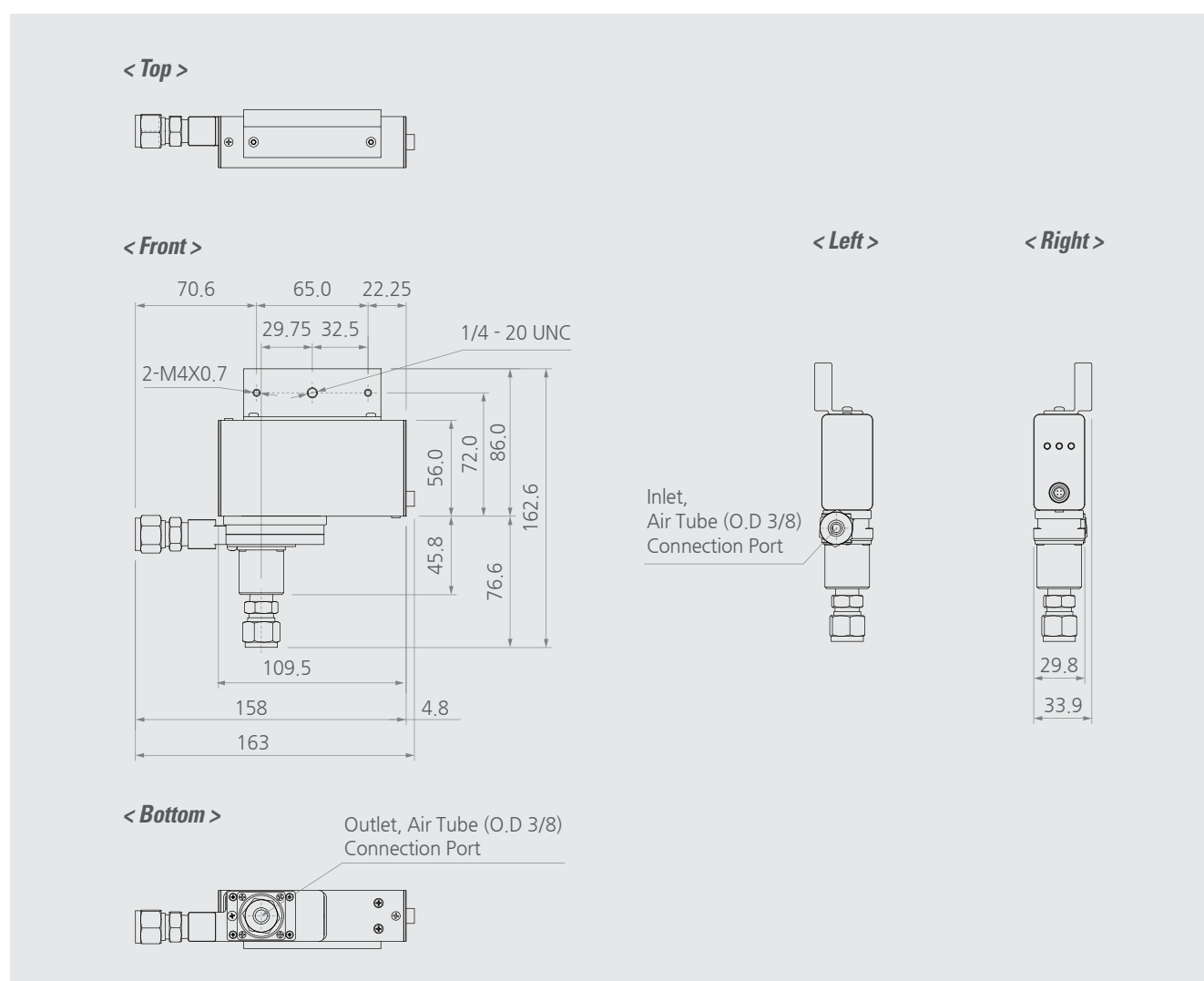
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Connectable Controller & Functions

Function	Controller		
	SXC-104N	SXC-104S	SXC-104T
Product Monitoring (RS-485)	○	○	○
Resetting usage time after head replacement	○	○	×
Stop when communication is not possible. (Function for Safety)	○	×	×
Checking the individual head position	○	×	×
Controlling the individual head	○	×	×
Number of Heads can be connected	1 ~ 4	1 ~ 4	1 ~ 4

Dimensions



Radiation Shielding methods

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What are soft X-rays?

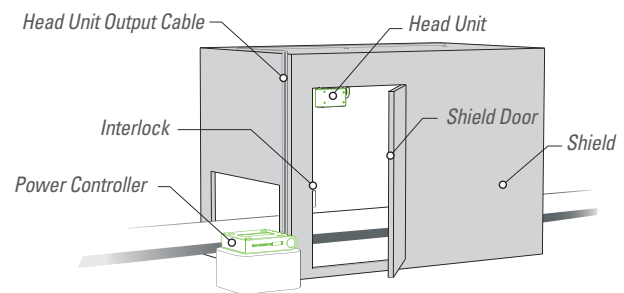
X-ray can be sorted according to its penetrating power, and an X-ray which has weaker penetrating power that can be absorbed easily in thin layer of the air is called the soft X-ray.

Benefits of Soft X-ray Ionizer

- Perfect Ion Balance ($\pm 0V$)
- No CDA (Clean Dry Air) required
- No dust generation
- No ozone (O_3) generation
- High ion generation density
- Static electricity can be removed even under inert gas conditions such as N_2 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.



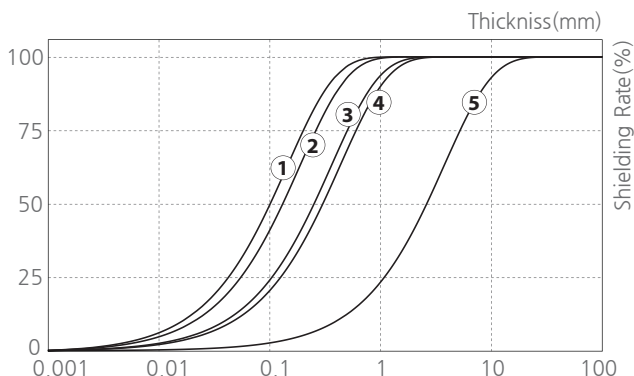
Radiation

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.