

Instruction Manual

SUNJE
Electrostatics



SMB-60

(Eng)

It is recommended that only persons who have sufficient knowledge and experience such as system designers and responsible persons deal with this product after carefully reading the product manual.

1 The matters of safety

WARNING

- * If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- * Do not let the water touch the product. It may cause electric shock or fire due to malfunction.
- * When you check or maintain the product, make it sure you turn off the power. It may cause electric shock or fire due to malfunction.
- * Secure the product firmly when you want to secure it. There is a possibility of accident due to fall-over or malfunction, etc.
- * Do not use the product at the place where dangerous material such as inflammable or ignitable material exists. This product is not the product of anti-explosive type.
- * This device is made only for industrial uses. You need to ground the device beforehand. Otherwise, there are in case of malfunction, electric shock, or fire damage.

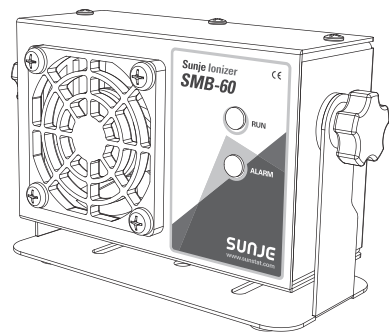
CAUTION

- * Do not contact the discharge needle or terminal with power applied. There is a possibility of electric shock or malfunction.
- * Handle the discharge needle with care as its tip is very sharp.
- * Connect wires referring to the product manual. Wrong connection can cause failures.
- * Take precautions as cables of the adaptor, the power line of each product may disconnect. If the cable is damaged, replace it immediately.
- * Do not install the device where the vibration can be detected. Any minor impact or vibration on the device, the malfunction or danger of accident might happen.
- * Do not use the product for the purpose outside of the range of the product use. If the product is used for the purpose outside of the range of the use, it can result in the trouble or the shortened service life, or an unexpected problem may occur.

2 Check the package contents

Product compositions

The package includes the following products composition.



Ion Blower
SMB-60
1ea



Adapter
SAD-NG-3-001
INPUT: AC100~240V, 50/60Hz
OUTPUT: DC24V, 1A
1.6m, 1ea



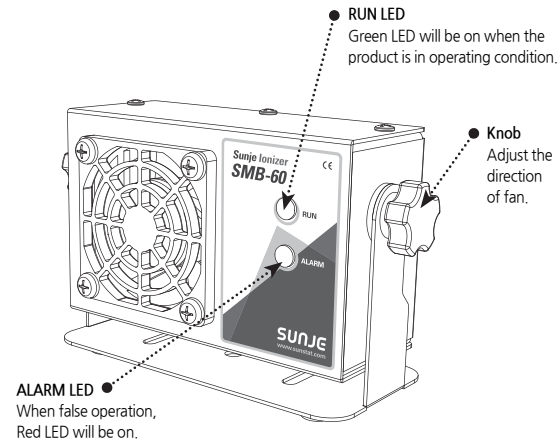
Power Cable
SPC-MT-1-001
AC 100V, 50/60Hz, 1.8m / 1ea
or
Power Cable
SPC-MT-2-001
AC 220V, 50/60Hz, 1.8m / 1ea



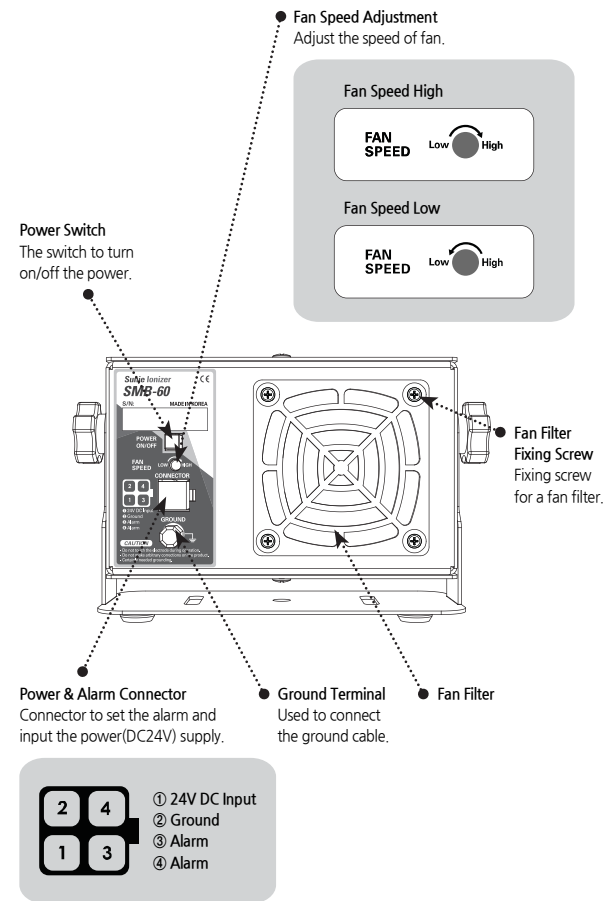
Ground Cable
SGC-MT-2-001
1m /Ø4-Ø4[mm] / 1ea

3 Nomenclatures of parts

Front



Rear



4 Installation and Connection

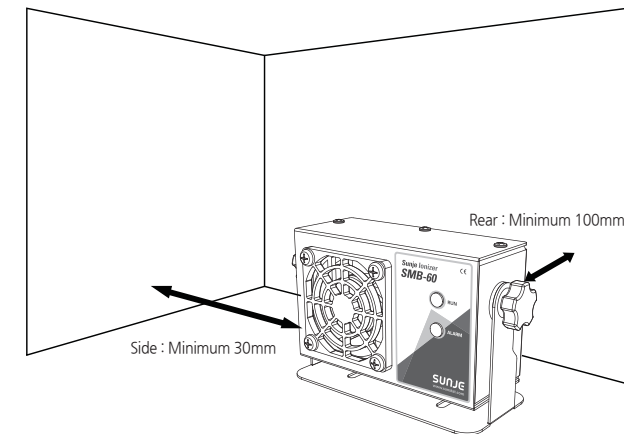
WARNING

- * Please adjust the device in the proper position upon the area you install. The item should be laid on the flat surface.
- * When installing the device, please be aware of high temperature/humidity.
- * If there are any random objects that are closely surrounded or touched the target object, the ionizing performance might decrease. Please consider the area where you install.
- * The performance of device will decrease if the ground is insecurely connected. The proper ground connection is always a first thing to consider.

Caution for installation

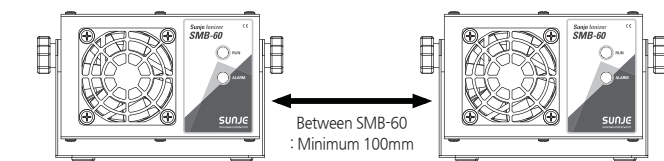
How to basic installation

When installing products, you should leave a space of minimum 30mm on both sides and minimum 100mm on the back.



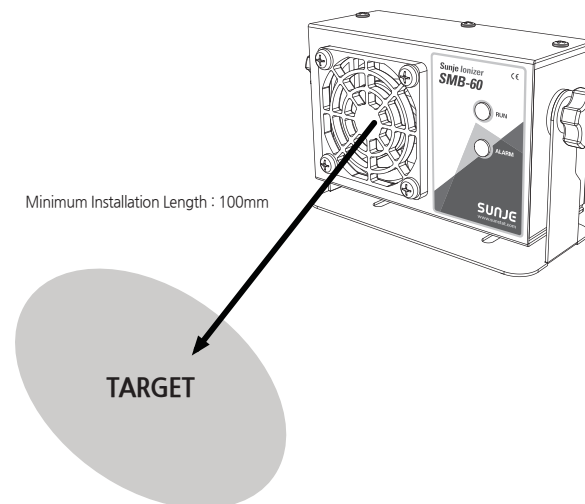
When installing more than two units

When installing more than two units of SMB-60, leave a space of minimum 100mm between products.



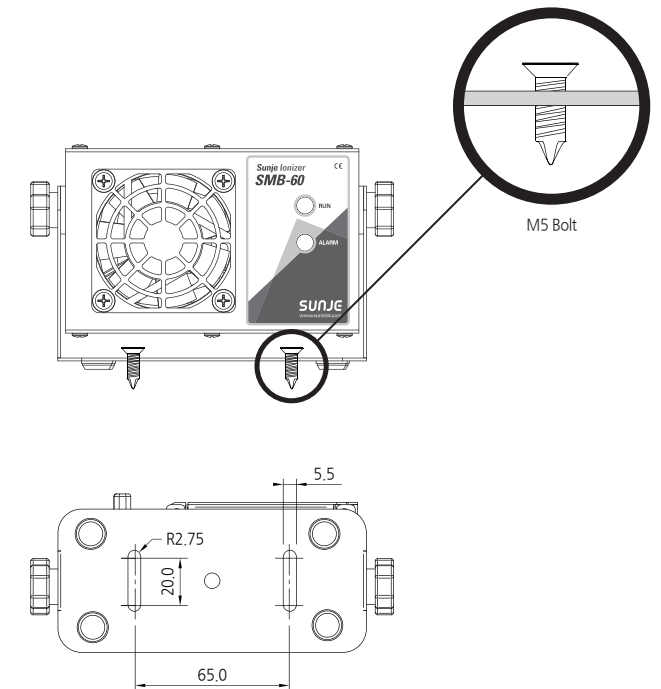
Installation against the target of de-electrification

Install the product with the distance of more than 100mm. When installed within 100mm, the phenomenon of reverse electrification can occur.



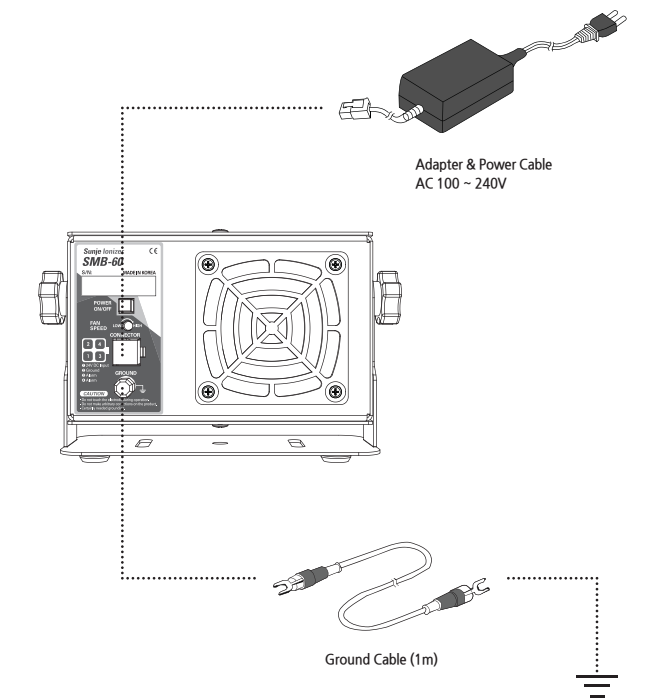
Mounting method

Fix the mount at the place where you want the SMB-60 to be fixed using four M5 bolts.



How to connect

Refer to the figure below to connect the product.



※ Be sure to ground the body of SMB-60 in order to secure the stable performance of the product and to prevent electric shock.
The input power of the power adaptor is AC 100~240V, 50~60Hz according to customer's request.

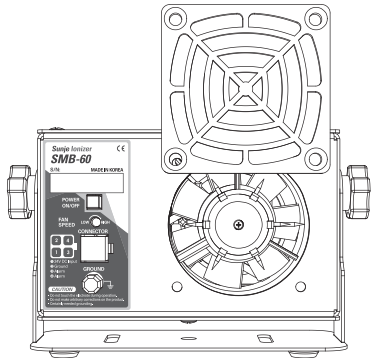
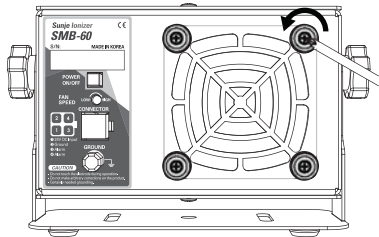
5 Maintenance

Maintenance is an essential item for maintaining its capacity. Please conduct a routine maintenance according to the below description. The life time of a discharge needle can be a difference depending on using circumstance. SMB-60 needs a routine maintenance and cleaning in case of bad circumstance. (high humidity or dust) Therefore, the discharge needle is recommended to be cleaned regularly. (At least once a month)

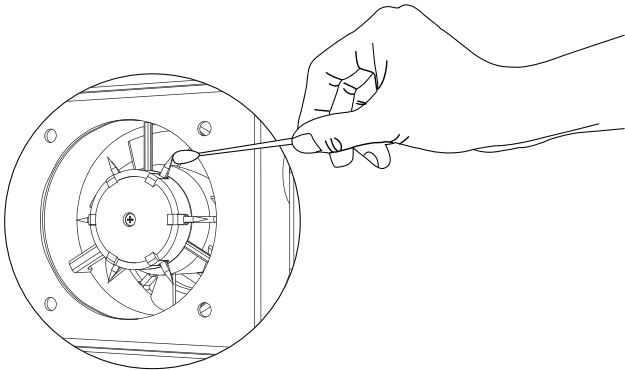
⚠ CAUTION

- * This device uses the high level of voltage. When operating maintenance, please power off and unplug the device. Otherwise, there might be in case of electric shock or fire damage.
- * The discharge needle is very sharp at the edge. Do not phsically(directly) touch the discharge needle.

- Separating fan filter
- a. Be sure to turn off main power before separating the fan filter.
 - b. Turn the screw of fan filter to counterclockwise using plus screwdriver.
 - c. Separate the fan filter.
 - d. Perform the cleaning or replacing of the fan filter and the discharge needle.

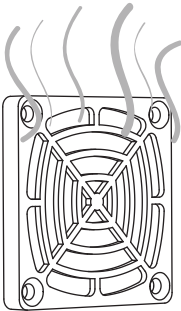
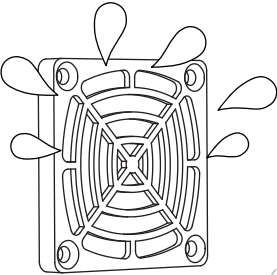
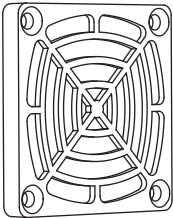


- Discharge needle cleaning
- a. Be sure to power off before cleaning the ionizer.
 - b. Separate the fan filter from the backside of the product.
 - c. Soak the cotton swab with alcohol. (do not use acetone)
 - d. Put the swab on the discharge needle and wipe it turning the swab right and left. (take precautions not to apply severe force to the discharge needle.)
 - e. Replace the damaged discharge needle.
 - f. After the cleaning, let the alcohol applied to the discharge needle surface evaporate completely and then operate the SMB-60.
 - g. Please record the cleaning process as a reference in the file.



- The cycle of replacing the electricity removal discharge needle
- Check during the discharge needle cleaning and take action.
- a. Replace the broken or severely damaged discharge needle.
 - b. The discharge needle is very sharp at the edge. Do not phsically(directly) touch the discharge needle.
 - c. The general cycle of needle replacement is one year, however, it can vary depending on the environment of use.

- Fan filter cleaning
- a. Be sure to power off before cleaning the ionizer.
 - b. Separate the fan filter from the backside of the product.
 - c. Wash the filter in the running water.
 - d. Dry the filter completely.
 - e. In case the fan filter is severely damaged, replace it.
- ※ We recommend you to clean it once a week.



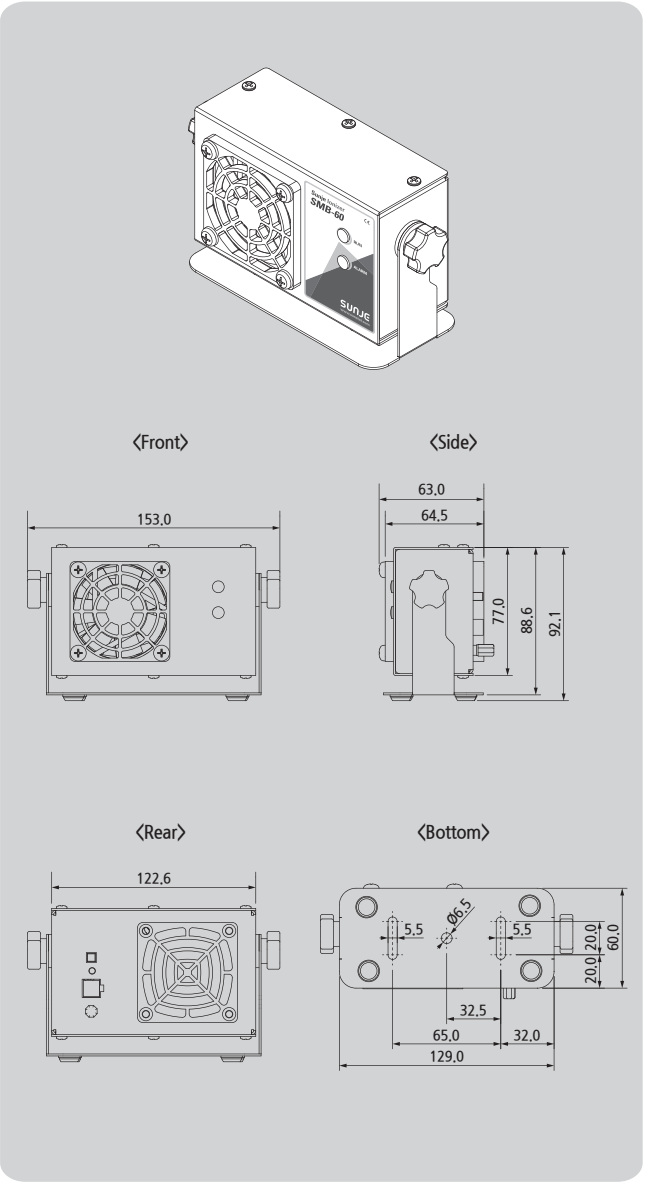
6 Problem solving

► Checklist before called

Problem	Identifying Problem	Solution
The product does not work.	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.
	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~240V, 50/60Hz)
	Is the swith OFF at back of the device?	Turn ON the power switch.
There is no ionization.	Is there any conductive material around the device?	Please refer to 'Installation & Connection' for setting the proper target distance from the device.
	Does the installed environment have too high/low level of humidity or temperature?	Please install the device upon the proper working specification.
The ionizing performance has been decreased.	Can't possibly ground the device?	Please refer to 'Installation & Connection' for(proper) grounding the device.
	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.
	Any contamination on the discharge needle?	Please refer to 'Maintenance' for cleaning the discharge needle.

7 Dimensions

► SMB-60



8 Specification

► SMB-60

Parameter	Description / Value	Remarks
Input Power	DC 24V	(AC110~240V, 50/60Hz, DC 24V, 1A)
Power Consumption	18W	
Current Consumption	81mA	AC 220V
Ion-Generation Method	High Frequency AC	Piezo
Air Blow Volume	1.086m³/min	
Noise Level(dB)	51dB	
Ion Balance	Within ±20V	200mm, Maximum Air flow
Ozone(O3) Concentration	≤0.05ppm	
Operation Circumstance	0℃ ~ +50℃(32℉ ~ 122℉), 35% ~ 85% RH	
Weight	0.5Kg	
Material		EGI
Electrode Material	Standard	Tungsten
	Option	Titanium
Mounting Method	Desk Top	
Function	Volume Fan Speed	
Alarm Function	H/V Abnormal Alarm	
Interface	Alarm(H/V Abnormal)	
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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