

Instruction manual

C15-7110-W0

Small Haze Generator SGE-1





Safety Precaution

- ⊘ Make sure not to inhale white haze generated from this product because students sensitive to chemicals may suffer asthma.
- ⊘ If you feel anything unusual when white haze comes in contact with your skin, eyes, nose, or throat, stop using this product and consult a doctor.
- ⊘ Do not use this product without smoke fluid remaining in the cartridge. It may cause a fire.
- ⊘ Be careful when touching the cartridge as it may be overheated by using this product. It may cause your skin burn.
- ⊘ Do not disassemble, repair, and remodel this product. This product might not work properly, and warranty will be void.
- ⊘ Keep dry. Otherwise, the product can be damaged, short-circuited and/or cause electric shock.
- ⊘ Teacher or trainer must instruct students about the safe ways of conducting experiments with this product before actually conducting experiments.
- ⊘ When you find that something is broken, please do not repair the product by yourself and contact your distributor.

Introduction

Lab Haze Generator designed to create haze in a restricted space like an observation container from a smoke fluid contained in a cartridge. Relatively large size smoke machines intended to use for shows or concerts have long been an option to generate haze in school laboratory.

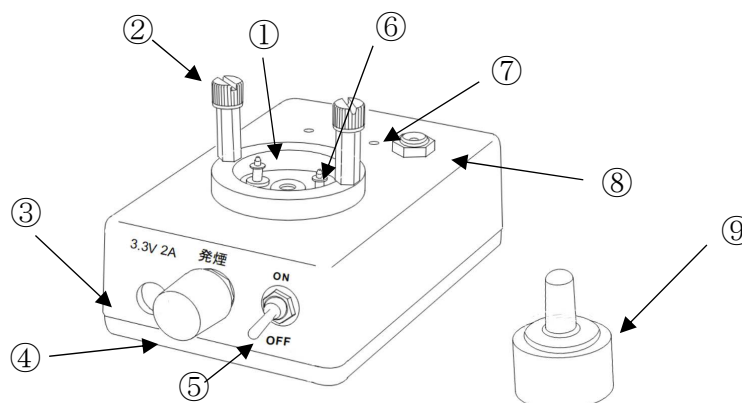
In contrast, this product is designed to be used in a limited space. Possible to locally fill haze into container of any kind like an observation container by connecting a plastic tube to this product, so that haze can be emitted directly without contaminating other facilities in laboratory.

Smoke fluid is non-toxic and safe for users. Cartridge replacement is easy, just change the old one for a new one (sold separately).

Specification

- Size: 70 x 123 x 70mm
- Maximum accumulated operation time per cartridge: 15 min.
- Accessory: Fluid cartridge (C15-7110-01)
- Power source: AC adapter (DC3.3V, 2.2 A) (not included)

Name and Description of Each Part



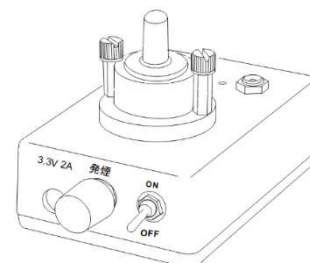
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|--------------------|------------------------|---------------------|
| ① Cartridge holder | ② Knurled fixing-screw | ③ Power supply jack |
| ④ Haze controller | ⑤ Switch | ⑥ Electrodes |
| ⑦ Intake air holes | ⑧ Pilot LED lamp | ⑨ Haze cartridge |

Cartridge Installation & Replacement Procedure

1. Make sure the switch is off. (⑤). Unscrew and remove each of two Knurled fixing-screws (②) from the spacer on the cartridge holder (①).
2. Set the cartridge by aligning the two electrodes (⑥) inside the cartridge holder (①) with the two holes on the bottom of the haze cartridge (⑨).
3. Put each of two Knurled fixing-screws and the spacers back to the holder and screw them to fix the cartridge.

* Haze cartridge can remain attached with the haze generator for storage while avoiding direct sunlight.

** Once smoke fluid in the cartridge is run out, replace it with a new one (Sold separately). You can take out the used cartridge from the main body by unscrewing and removing the knurled fixing-screws.



Operation Procedure

1. Make sure the switch (⑤) is off.
2. Plug the AC adaptor into your Power supply jack (③).
3. Remove a cap from the cartridge (⑨), and set the cartridge into the cartridge holder (①).
4. Once turning the switch (⑤) on, the pilot LED lamp (⑧) turns green and starts generating haze (smoke).

Notice: Automatic switch off mechanism after 35 seconds. In case extending the duration of haze generation, make sure the switch is off, and turn it on. Then, haze will be generated again.
5. Generation rate of haze is controllable, by using the Haze controller knob (④), depending on the purpose of the experiment.
6. Turn the switch off.

Notice: Even after the switch is automatically turned off, the generator is still working as a pause mode. Make sure the switch off is turned off.

Meaning of Pilot LED Lamp Colors

Lamp Color	Lamp Illumination State	Descriptions
Green	Lighting	"Power on" (Haze will be generated in 5 seconds).
Green	Blinking	"Time is up for haze generation." Automatic switch off mechanism after 35 seconds. In case extending the duration of haze generation, make sure the switch is off, and turn it on.
Orange	Lighting	When detecting overheat or uncontrollability of heat, pilot LED lamp turns orange and stop heating.
Red	Lighting	"Immediately shut down operation because Haze cartridge and Cartridge holder are improperly connected." Turn the switch off, remove the haze cartridge from the holder, re-set the cartridge, and then turn the switch on again. If this does not help, replace the cartridge to a new one.
Red	Blinking	"No smoke fluid remains in the cartridge." Replace the existing cartridge with a new one.

Troubleshooting

Symptom	Possible causes	Possible solutions
No haze generated and Pilot LED Lamp turns red.	Haze cartridge and Cartridge holder are improperly connected.	Turn the switch off, remove the haze cartridge from the holder, re-set the cartridge, and then turn the switch on again. If this does not help, replace the cartridge to a new one. Turn on the switch again.
No haze generated and Pilot LED Lamp blinking.	No smoke fluid remains, or, flaw in the cartridge.	
No Pilot LED Lamp lights up.	Main body and an AC adaptor are improperly connected.	Turn the switch off, remove the AC adaptor from the power supply jack (③) and an outlet. After a while, re-connect the AC adaptor with the power supply jack and outlet, and turn the switch on again.
Abnormal overheat of the main body and the Pilot LED lamp turns orange.	Repeated haze generation over a long time.	Turn the switch off and disconnect with the AC adaptor for a cooling down. After a while, turn the switch on again.

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