

# Portable Spray Disinfectant Manufacturing Machine Sodium hypochlorite generator

— ZSHG 01 —

Non-toxic      Harmless  
No residue      Pollution-free

## Operating Manual



It only takes 3 minutes to  
make the disinfectant.

**ZASS**<sup>®</sup>  
Worldwide comfort

## Introduction

Thank you very much for purchasing the portable spray disinfectant manufacturing machine developed by our company. To ensure that you use the device correctly, please read the instructions carefully before use.

## Product parameters

Product name	Portable Spray Disinfectant Manufacturing Machine Sodium hypochlorite generator
Model	ZSHG 01
Power Supply	DC5V
Running time	3min, 6min, 10min
Concentration	200~300ppm, 500~600ppm, 800~1000ppm
Texture of material	304stainless steel、PC、ABS
Capacity	270ml
Product size	9.2cm×7.45cm×24.5cm
Net weight	246g
Executive standard	Q/JX01 -2012、WS628 -2018
Bactericidal rate	99.99%
Rate of removing agricultural residues	93.6%~95.8%
Killing microorganism category	Escherichia coli, Staphylococcus aureus, Candida albicans, Pseudomonas aeruginosa, poliovirus

## Parts details



## Maintenance

1. The portable spray disinfectant manufacturing machine (sodium hypochlorite generator) should be used in time after each work is completed. Do not electrolyze many times to prevent unknown concentration.
2. When it is found that the bubbles generated by the electrolytic cell during the work are significantly reduced, or when there is obvious white solid condensate, pour appropriate amount of warm water and sodium citrate descaler into the cup, soak the electrolytic cell, and let it stand for 1 ~ After 2 hours, pour out the water and wash it with clean water.

3. When working, the base lamp lights up and flashes to indicate that the salt concentration is too high, and the device enters a state of self-protection. At this time, the water needs to be diluted, or the amount of salt is appropriately reduced during subsequent use.
4. There is a slight deviation in the output voltage of the charger. In addition, the water quality in each region is different, and the mineral content is more or less. The concentration of the disinfectant generated will eventually vary.

## Usage method

1. Check that the bottle is clean and free of foreign matters.
2. Measure the salt with a salt spoon and put it into the bottle.
3. Add clear water to the bottle body to the highest water level, and shake the bottle body to make the salt completely dissolve in the water. Note: before working, loosen the spray gun to let the gas produced by electrolysis out.
4. Connect the USB end of the power cord to the 5V adapter, and the round plug end to the power hole of the base. At this time, the buzzer rings, which means the connection is normal.
5. Press the power button in the middle of the base and the buzzer will sound. At this time, it can be observed that the base lamp is on and bubbles appear in the bottle, indicating the normal operation of the machine. (press the switch once for 3 minutes, press the switch twice for 6 minutes, and press the switch three times for 10 minutes).
6. After the completion of the work, the machine automatically stops working, at this time, the buzzer rings five times, indicating that the preparation of disinfectant has been completed.
7. Unplug the power cord from the equipment and use the disinfectant correctly according to the actual use.
8. Clean the disinfectant in the bottle with clear water and dry it.

## Principle of sterilization

The principle of disinfection and virus killing of sodium hypochlorite disinfectant is mainly to release new ecological oxygen [O], denature the protein and other substances on the bacteria and virus, and oxidize the organic macromolecules such as bacteria (virus) body protein, nucleic acid and enzyme, so as to kill the pathogenic microorganism. At the same time, in the process of sterilization, the osmotic pressure of bacteria and viruses is changed, and the bacteria and viruses lose their activity and die.

Sodium hypochlorite disinfectant can effectively kill bacteria, mycobacteria, fungi, viruses and bacterial spores, with a killing rate of 99.99%.

In addition, sodium hypochlorite can also decompose the residual pesticides in vegetables, fruits and other agricultural and sideline products. Most pesticides are made up of organic compounds, which can be oxidized and decomposed by the new oxygen released by sodium hypochlorite. The disinfectant produced by sodium hypochlorite generator does not produce free chlorine, and will not form carcinogens harmful to human health due to the presence of free chlorine; it will not cause damage and toxicity to life.

## Use concentration reference

Scope of use	Allowable concentration (in effective chlorine content, mg / L)	Action time (min)	Usage method
General object surface	200	3	Wipe, soak, wash and disinfect the surfaces of various cleaning objects.
	500	30	Wipe, soak, wash, spray and disinfect the surfaces of various non clean objects. The spraying rate is based on spraying humidity .
Air	500	10~30	Put the disinfectant into the spray pot, spray and disinfect the required space, kill bacteria and other organisms in the air , and prevent infectious diseases such as colds and skin diseases.
Tableware	200	3	After the residue removal and cleaning, the utensils shall be soaked and sterilized; after the disinfection, the residual disinfectant shall be flushed out.
	500	30	When disinfecting the contaminated instruments used by the patients with infectious diseases, the residue shall be removed, cleaned and then soaked for disinfection. After disinfection, the residual disinfectant shall be flushed out.
	500	30	After disinfecting and removing the residue, the utensils that have not been cleaned shall be soaked and disinfected. After disinfecting, the residual disinfectant shall be washed away.
Fruits and vegetables	200	3	The fruits and vegetables shall be cleaned first and then disinfected, and the residual disinfectant shall be flushed with drinking water after disinfecting.
Textile	200	3	When disinfecting the clean clothes, immerse all the fabrics in the disinfectant, and wash the residual disinfectant with drinking water after disinfecting.
	500	30	When disinfecting the contaminated clothes, immerse all the fabrics in the disinfectant, and wash the residual disinfectant with drinking water after disinfecting.

## Warranty instructions

- One copy of this warranty card, together with the purchase invoice or record, serves as the after-sales warranty certificate. If it is lost, please keep it properly .
- The warranty period of this machine is one year (from the date of purchase).

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- The warranty period of this machine is one year (from the date of purchase).
- During the warranty period, the user needs to show the warranty card and purchase invoice or record at the same time to get the warranty service.
- The following situations are not covered by the warranty:
  - The machine is out of warranty;
  - Failure or damage caused by the user's improper installation, use, improper maintenance and use under abnormal conditions without complying with the instructions.
  - Machine failure or damage caused by accident or human factors (including change of use conditions, collision, etc.).
  - Product failure or damage caused by force majeure (such as earthquake, fire, etc.) such as natural disasters.
  - Failure to show warranty card and purchase invoice or record.
  - Product damage caused by the use of non local supporting parts.
  - The appearance is polluted due to the use of natural environment.
- Special reminder
  - When the machine and accessories you use are beyond the scope of warranty, you can choose paid service.
  - Please refer to local economic standards for additional labor and spare parts costs involved in paid services.
  - Relevant parts can be purchased by the company or by the user, and the cost shall refer to the local economic standard.

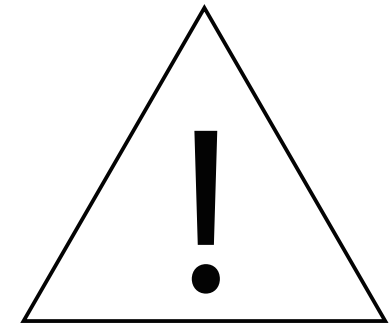
## Precautions and product maintenance

- The sodium hypochlorite disinfectant produced by the machine is external disinfectant, which shall not be taken internally and placed in a place hard to reach for children;
- Operate the machine in strict accordance with the instructions;
- Do not carry out other operations during preparation to avoid damage to the equipment;
- Do not take out the electrode when the equipment is working, and it is strictly prohibited to use metal conductive material to overlap between the electrodes , so as to avoid damaging the equipment;
- During the operation of the equipment, yellow catkins will appear in the solution, which is a normal phenomenon, because the water is rich in iron ions, and the above phenomena will also occur when using salt containing potassium ferrocyanide ;
- Please use the prepared disinfectant in time, otherwise the concentration of the disinfectant will drop due to the influence of light and temperature, and the retention time of the disinfectant in the cup body should be reduced to extend the service life of the equipment;
- The prepared disinfectant should be used on the spot as much as possible , and the surplus should be sealed with glass or plastic bottles to avoid light, dark and dry places and well ventilated clean rooms, and the storage time should not be too long;
- Sodium hypochlorite disinfectant has certain corrosiveness to metal, so it is forbidden to use it. The sodium hypochlorite disinfectant containing 500 mg / L effective chlorine has no corrosion to stainless steel, slight corrosion to aluminum and moderate corrosion to carbon

- steel and copper after 72 hours immersion . When it is necessary to soak for disinfection, the soaking time shall be controlled within 3 minutes, and it shall be washed immediately with clear water .
- It is forbidden to use disinfectant to sterilize textiles woven with natural fibers other than white to prevent fading. Warm tip: natural fiber textiles are easier to fade than chemical fiber (especially synthetic fiber) textiles. That is to say , cotton, hemp, silk and wool fabrics are easier to fade than nylon, polyester, acrylic and so on.
  - It is strictly prohibited to use it together with alcohol, vinegar , toilet cleaner , concentrated hydrochloric acid and concentrated sulfuric acid .

## Reminder

- With the upgrade of the product, some words or patterns in the manual may be different from the actual situation. Please refer to the actual product.
- All contents of this material have been carefully checked. If there is any printing error or misunderstanding, we reserve the right to interpret.
- The disinfectant is recommended to be prepared and used on the spot.



# No drinking

**CE** This device complies with European safety standards and electromagnetic compliance .

**RoHS COMPLIANT** This product does not contain environmentally hazardous materials (lead, mercury, cadmium, hexavalent chromium and brominated flammable agents: PBB and PBDE).

**IMPORTANT INFORMATION ON THE CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE 2012/19 / EU**  
 Used electrical appliances are valuable materials, which is why their place is not in the garbage! Therefore, please support us and participate in the protection of natural resources and the environment by handing this device over to the collection centers or to the reporter whose address you can find in this manual or in the warranty certificate. By removing household appliances separately, you will avoid any negative consequences that incorrect disposal could have on the environment and health, and you will allow the use of constituent materials to save energy and resources. Additional details can be requested from the local administration or at the nearest collection point. Improper disposal of waste may be amended in accordance with national regulations. Separate decommissioning of an appliance is specified by marking the product with the image of a cut trash can.