

USHER TECHNOLOGIES INC.

USHERing a safer world.

**Low-Cost On-Site Hypochlorous Acid Small
Scale Generator for Sanitation and Disinfection**

HOCL  **MAC**

OPERATION MANUAL



USHER TECHNOLOGIES INC.



Table of Contents

Product Description	3
Benefits/Features	4
Data Concentration Sheet	5
General Safety Instruction	6
Care and Cleaning Instructions	7
Instruction For Use	8
- Preparation Before Installation	
- Set-Up	
- Generating Electrolyzed Water for Cleaning & Sanitation	
Technical Specifications	10
Quality Verification.....	11



PRODUCT DESCRIPTION

SMALL-SCALE UNIT

The **HOCLOMAC device** is a stand-alone, on-site generator of **hypochlorous acid (HOCl)**.

It is designed to produce about 1 Liter of Hypochlorous Acid (HOCl) in less than 5-15 minutes at 100-500 parts per million free active chlorine.

The raw materials needed by the HOCLOMAC device namely, salt, distilled water, and vinegar are readily available in local markets or grocery stores.

Thank you for purchasing our Hypochlorous Acid Generating Machine.

BENEFITS / FEATURES



DISINFECTION

It can kill molds, viruses, and bacteria. It can also be used to disinfect the surfaces of clinics and medical laboratories. (Low Concentration)



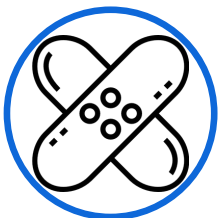
ORAL CARE

Its antimicrobial and antifungal properties offer a safer solution to oral care than chlorhexidine or chlorine bleach. (Low Concentration)



STERILIZATION

It can be used to disinfect medical tools and equipment in hospitals, laboratories, and other facilities. (Medium Concentration)



WOUND CARE

It can also be applied to wound care, including disinfecting burns, bruises, and other injuries; HOCl is an essential agent in decreasing bacterial wound counts. (Medium Concentration)

HOCLOMAC can eliminate the need for various products for disinfection. With this simple device you can generate unlimited disinfection solution, HOCl, at the comfort of your home or office.

DATA CONCENTRATION SHEET

MODES

Low Concentration - Can be used for sanitize sensitive materials and for oral cleaning.

Medium Concentration - Can be used for organic sanitation such as personal, wound, and laboratory tools, and it can also be used as a humidifier and misting.

High Concentration - Can be used for non-organic and non-sensitive materials such as tables, chairs, floors, and wall disinfection.

RAW INGREDIENTS NEEDED

Concentration	Distilled Water	Non-iodized Salt	5% Acetic Vinegar
ALL	1 Liter	20g	15ml

GENERAL SAFETY INSTRUCTIONS



Don't tilt or jog the device it may cause spillage.
Never open the back compartment.
Only place your bottles in the dispensing area.

1

Children shall not play with the appliance.

2

Do not submerge the AC power cord or the unit in water or other liquids.

3

The AC power cord should be inspected on a regular basis for signs of damage. To avoid hazards, the AC power cord must be replaced by the manufacturer if it is damaged.

4

Do not use the unit if the cord or plug is damaged or if the unit malfunctions or has been damaged in any way. Return the unit to an authorized service agent near you for inspection.

5

In the event of a malfunction, always remove the plug from the socket.

6

Never pull the cord to unplug or move the unit. Do not wrap or twist the cord around the unit.

7

Before unplugging the AC power cord to the socket, always turn off any controls.

8

It is critical to keep the unit clean at all times because it produces a solution that is used for sanitizing.

CARE AND CLEANING INSTRUCTIONS

- Remember to remove the AC power plug from the socket and allow the unit to cool down before cleaning HOCLOMAC
- Never immerse the unit in water or any other liquids.
- Clean the unit every other use.

CASING

1. *Use a damp cloth to clean the outside surface of the unit.*
2. *Dry using a dry cloth.*

CONTROL PANEL

The control panel is where you can control the HOCLOMAC.

1. *Wipe the panel using a clean cloth to remove unwanted fingerprints.*

DISPENSING TRAY

The dispensing tray can be found below the dispensing nozzle.

1. *Remove the liquid tray.*
2. *Throw the excess liquid in a sink or water drain.*
3. *Put the dispensing tray back in its proper place.*

INGREDIENT INLET

1. *Lift up the Lid to have access to the ingredient inlet.*
2. *Use a damp cloth to clean and remove spilled raw ingredients in the funnel*
3. *Dry using a dry cloth.*

INSTRUCTION FOR USE

Preparation Before Installation:

1. Remove all packaging material of the HOCLOMAC Small-Scale Unit.
2. Check the power cord and make sure there is no disconnections.

Setup:

1. Plug the AC power cord.
2. Place a liquid container in the dispensing area.
3. Click the dispense button in the control panel to drain the unwanted concentration.
4. Prepare the raw ingredients:
 - 1 Liters of Distilled Water
 - 20 g of Non-iodized salt
 - 15 ml of Vinegar

Generating Electrolyzed Water for Cleaning & Sanitation:

1. Plug the AC power cord.
2. Push the power ON.
3. Wait for the light **Blue** Indicator at the dispensing area this means that the machine is turned on.
4. Manually add 1 liter of Distilled water to the funnel.
5. Manually add 20 grams of Non-iodized Salt to the funnel.
6. Push the Right Button to the select desired concentration
 - a. **Green** Indicates that you selected **Low Concentration**.
 - b. **Yellow** Indicates that you selected **Medium Concentration**.
 - c. **Red** Indicates that you selected **High Concentration**.
7. Push the Center Button to begin the Generation process.
8. Wait for the **Orange** light to turn on then add 15ml of Vinegar.
9. Push the Center Button again
10. The **Blue** Indicated that the solution is ready for dispensing.

INSTRUCTION FOR USE

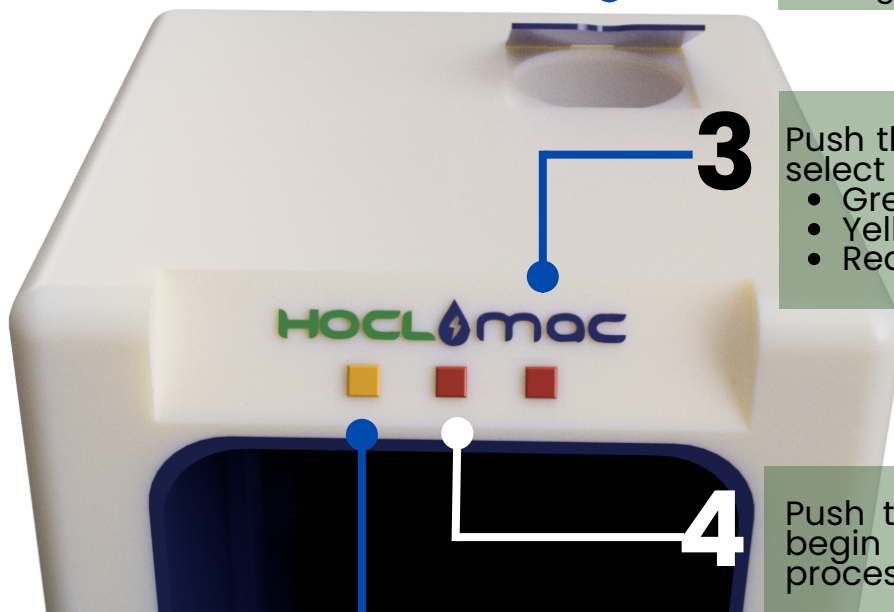


1 Plug the AC cord into the unit



2 Manually pour the Salt and Water into the funnel.

- 1 Liter of Water
- 20g of Salt



3

Push the **RIGHT Button** to the select desired concentration.

- Green: Low
- Yellow: Medium
- Red: High

4

Push the **CENTER Button** to begin the Generation process

5

Wait for the **"Orange"** light to turn On.

6

Manually pour vinegar into the funnel.

- 15 ml of Vinegar

7

Push **Button B** again.

8

Once the **Blue light** is already turned on, it is a signal that the solution is ready for dispensing.

9

Push the **LEFT Button** to dispense the Hypochlorous Acid.

TECHNICAL SPECIFICATIONS

Model	HOCLOMAC Unit 1
Electrolysis Cell	Customized Electrode
Material	Polylactic Acid Plastic
Power Supply	110 V/220V
Dimensions	30 cm x 30cm x 35 cm
Weight	5kg
Capacity	1 Liter

CONTROL PANEL

Right Button	Select Concentration (Low: Green, Medium: Yellow, High: Red)
Center Button	Generation START
Left Button	Dispense Button

QUALITY VERIFICATION

pH Level	Using pH level sensor device (4.0 - 6.0)
Concentration of HOCl	Use test trips to measure chlorine concentration (100-1000ppm)

DEVICE PRODUCTION

Type of Solution Produce	Neutral Analyte
Production Rate:	<p>5 min - Low Concentration</p> <p>10 mins - Medium Concentration</p> <p>15 mins - High Concentration</p>

CHEMICAL COMPOSITION

Concentration	NaCl	Vinegar	Chlorine	Alkaline	Hypochlorous Acid
Low	20g	15ml	none	165 mg/L	100 mg/L
Medium	20g	15ml	none	89.7 mg/L	250 mg/L
High	20g	15ml	none	173 mg/L	500 mg/L



Manufacturer:

USHER TECHNOLOGIES INC.

USHERing A Safer World

Unit 1409 Corporate 145 Building 145, Mother Ignacia St. Barangay South
Triangle, Quezon City 1103

<https://usher.ph/#shi-client>



CONCENTRATION SELECTION

LOW CONCENTRATION:

Press the **RIGHT Button** **once**. The LED will turn into color **green**. This will indicate that the mode of the unit is in Low Concentration.

MEDIUM CONCENTRATION:

Press the **RIGHT Button** **twice** consecutively. The LED will turn into color **yellow**. This will indicate that the mode of the unit is in Medium Concentration.

HIGH CONCENTRATION:

Press the **RIGHT Button** **thrice** consecutively. The LED will turn the color **red**. This will indicate that the mode of the unit is in High Concentration.

IMPORTANT: To interrupt the appliance at any time, press the on/off button goes out and the screen displays the clock.

NOTE: At the end of the first cycle, allow 15 minutes for the unit to cool.

PARTS IDENTIFICATION

1	Chemical Funnel
2	Funnel Lid
3	Select Concentration Button
4	Start Generation Button
5	Dispense Button
6	Drip Cover
7	Drip Pan

