

# HYPO 7.5

by HYPO SOURCE

## Product Manual





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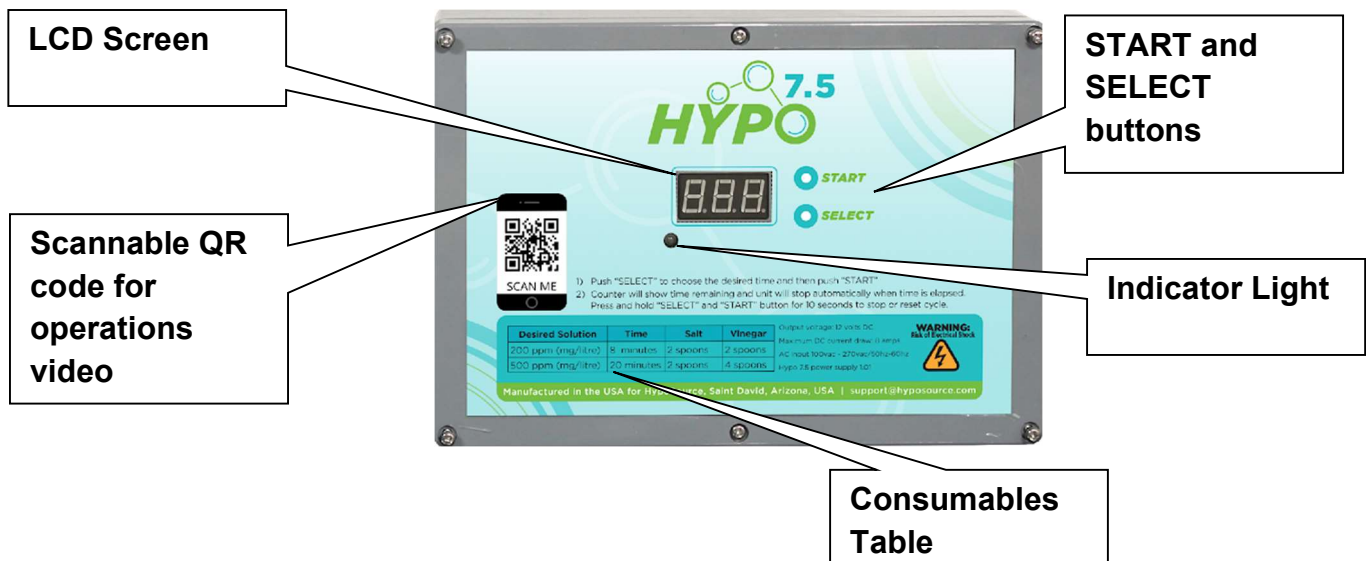
**Note: This manual is subject to change at any time based on system improvements, design changes, authorized modifications, or new information. Please consult Hypo Source for the latest revision.**

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## SECTION 1 - DESCRIPTION

### 1.1 GENERAL INFORMATION

The HYPO 7.5 system is an on-site hypochlorous acid generator. The HYPO 7.5 can produce up to 7.5 liters (2 gallons) of hypochlorous acid at either 200 or 500ppm with a pH range between 5 and 6. The system produces hypochlorous acid in batches from a salt and acid solution. The HYPO 7.5 is designed for commercial use. The basic components of the system are outlined below.





## 1.2 PRINCIPLES OF OPERATION

To begin production of hypochlorous acid, the HYPO 7.5 storage tank is filled with two gallons of clean water. Consumables are added to the storage tank according to the operations video and the desired concentration (200 or 500ppm). The power supply has two buttons SELECT and START which are used to operate the HYPO 7.5. The user selects the concentration according to consumables added and then pushes START to begin production. The HYPO 7.5 automatically turns off once the selected cycle is complete. The user applies the produced solution and then recreates new solution as needed. The power supply provides the current to the electrolytic cell to produce the hypochlorous acid strength selected. In addition, the power supply houses all the safety features to prevent system operation in the event of a malfunction.

## 1.3 GENERAL SPECIFICATIONS AND PRODUCT USE

	<b>HYPO 7.5</b>
<b>HOCl production</b>	7.5 liters or 2 Gallons per Batch
<b>ppm strength of solution</b>	200 / 500
<b>pH of solution</b>	5 - 6
<b>Electrical requirements</b>	120 - 240VAC @ 1.7A 50/ 60Hz

For sanitizing use 200ppm FAC

For disinfecting use 500ppm FAC

\*Test with high chlorine test strips prior to use\*

### 1.4 HYPO 7.5 CONSUMABLES

pH control: 5% Vinegar (No dilution necessary)



Salt: Table salt (iodized or non-iodized)



Solution strength consumable table

<b># of Scoops</b>	<b>200 ppm</b>	<b>500 ppm</b>	<b>1000ppm</b>
<b>5% Vinegar</b>	2 scoops	4 scoops	8 scoops
<b>Table salt (iodized or non-iodized)</b>	2 scoops	2 scoops	2 scoops



## **SECTION 2 - INSTALLATION**

### **2.1 UNPACKING**

Units are shipped from the factory. In the event of damage during shipping, it is the responsibility of the customer to notify the carrier immediately and to file a damage claim. Open the box carefully and examine all the materials inside.

### **2.2 STORAGE**

When storing units, use the original packaging and store under a shelter to protect the contents from weather.

### **2.3 SAFETY CONSIDERATIONS**

**IMPORTANT SAFETY PRECAUTIONS**

**READ AND FOLLOW INSTRUCTIONS**

## **SAVE THESE INSTRUCTIONS**

**WHEN INSTALLING, OPERATING, AND MAINTAINING THIS EQUIPMENT, KEEP SAFETY CONSIDERATIONS FOREMOST. USE PROPER TOOLS, PROTECTIVE CLOTHING, AND EYE PROTECTION WHEN WORKING ON OR INSTALLING THE EQUIPMENT. FOLLOW THE INSTRUCTIONS IN THIS MANUAL AND TAKE ANY ADDITIONAL SAFETY MEASURES APPROPRIATE. BE EXTREMELY CAREFUL IN THE PRESENCE OF HAZARDOUS SUBSTANCES.**

**THE PERSONNEL RESPONSIBLE FOR INSTALLATION, OPERATION, AND MAINTENANCE OF THIS EQUIPMENT MUST BE FULLY FAMILIAR WITH THE CONTENTS OF THIS MANUAL.**



ANY SERVICING OF THIS EQUIPMENT MUST BE DONE WITH THE UNIT FULLY OFF AND DISCONNECTED FROM THE POWER SOURCE.

## **WARNING**

- **HYPO SOURCE** SYSTEMS ARE INTENDED TO BE INSTALLED ACCORDING TO ALL LOCAL AND NATIONAL REGULATIONS.
- THE **HYPO SOURCE** HYPO 7.5 SYSTEM MUST BE INSTALLED IN A WELL-VENTILATED AREA.
- ONLY A QUALIFIED TECHNICIAN MAY SERVICE THE **HYPO SOURCE** HYPO 7.5 SYSTEM.
- MODIFYING THE **HYPO SOURCE** HYPO 7.5 SYSTEM IN ANY WAY MAY CAUSE BODILY INJURY AND WILL VOID THE WARRANTY.
- DO NOT ALLOW CHILDREN OR ANYONE NOT CAPABLE TO OPERATE THE **HYPO SOURCE** HYPO 7.5 SYSTEM.
- ONLY REPLACE COMPONENTS WITH THOSE SPECIFIED BY THE MANUFACTURER.
- ALL ELECTRICAL ENCLOSURES ON THE **HYPO SOURCE** HYPO 7.5 SYSTEM CONTAIN HIGH VOLTAGE COMPONENTS. NEVER OPEN ANY ENCLOSURE WHILE THE POWER IS ON.
- THE SYSTEM HAS THE POTENTIAL TO RELEASE HIGH DOSES OF CHLORINE. USE CAUTION WHEN HANDLING, SERVICING, OR OPERATING THE EQUIPMENT.
- DO NOT ENERGIZE OR OPERATE THE SYSTEM IF THE CELL CONTAINER IS DAMAGED OR IMPROPERLY ASSEMBLED.
- USE ONLY THE CORD CONNECTED AT TIME OF MANUFACTURE.
- REPLACE DAMAGED CORDS IMMEDIATELY. DO NOT BURY CORD.
- DO NOT MODIFY THE PLUG PROVIDED WITH THE HYPO 7.5. IF IT WILL NOT FIT THE OUTLET, USE THE CORRECT PLUG.

### 2.4 PLAN AHEAD

## **WARNING**

THE HYPO 7.5 SYSTEM MUST BE INSTALLED IN A WELL-VENTILATED AREA.

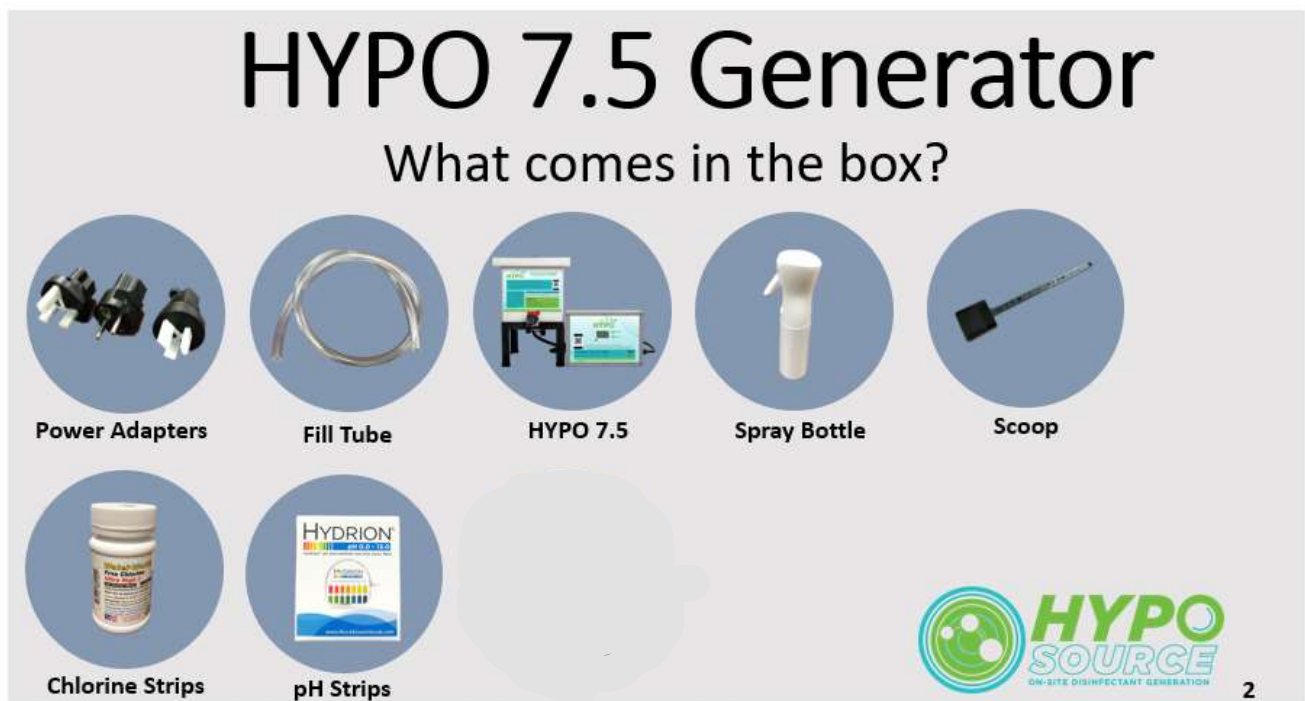
DO NOT USE A METAL SPOON TO STIR THE SOLUTION.

NEVER OPERATE THE HYPO 7.5 WITH A LID ON THE UNIT.

## SECTION 3 - OPERATION

### 3.1 BOX CONTENTS

Unpack the shipping box and confirm the contents according to the graphic below:



- 1 x Plug Adapters
- 1 x Fill Tube
- 1 x HYPO 7.5
- 1 x Spray Bottle
- 1 x Scoop
- 1 x Chlorine Test Strips
- 1 x pH Test Strips



### 3.2 OPERATING THE HYPO 7.5

**Step 1:** Unpack the components.

**Step 2:** Place the cell assembly into the stand as shown below:



**Step 3:** Place the power supply next to the HYPO 7.5

**Step 4:** Connect the power supply to the cell assembly using the two blue connectors.

**Step 5:** The blue valve shown below comes attached to the unit. Take the 1/2" clear tube provided and push it firmly into the gray valve. To remove the tube, push the white ring inside of the gray valve up and pull the tube.

Push down white ring to remove tube.





**Step 6:** Fill the container with two gallons of clean water.

**Step 7:** Add salt and vinegar according to the ppm of solution desired:

- For a 200ppm solution, add two scoops of salt and two scoops of 5% vinegar.
- For a 500ppm solution, add two scoops of salt and four scoops of 5% vinegar.
- For a 1000ppm solution, add two scoops of salt and eight scoops of 5% vinegar.
- Stir for 10 seconds

**Step 8:** Plug in the power supply. The screen will illuminate and show the number 500. The 500 stands for 500ppm strength of solution. Use the SELECT button to choose either 200 or 500 ppm strength. To make 1000ppm, simply select the 500 strength cycle and run it twice. Once you have chosen the solution strength, push the START button. The solution will begin to fizz.

**Step 9:** If 200ppm was chosen, an eight-minute timer will start (count down occurs in whole minutes) and the indicator light will blink green to show production is underway.

**Step 10:** If 500ppm was chosen, a twenty-minute timer will start (count down occurs in whole minutes) and the indicator light will blink green to show production is underway.

**Step 11:** Once the timer is complete, the fizzing will stop, and the indicator light will turn solid green. The display will show the ppm strength originally chosen.

**Step 12:** To cancel the production run, hold the START and SELECT button together for 5-8 seconds. The screen will flash the letters ABT, the timer will stop and the default 500ppm setting will appear. The fizzing will also stop at the cell.

**Step 13:** Use the chlorine test strips provided to verify the strength of the solution.

**Step 14:** Use the pH test strips provided to verify the pH of the solution is between 5-6.

**Step 15:** The solution is now ready to use as needed.



**Step 16:** Rinse the container with fresh water after each use.

## SECTION 4 - MAINTENANCE

### 4.1 ROUTINE MAINTENANCE

#### Daily

- Visual inspections for:
  - ❖ Leaks
  - ❖ Wear on electrical wires

#### Monthly

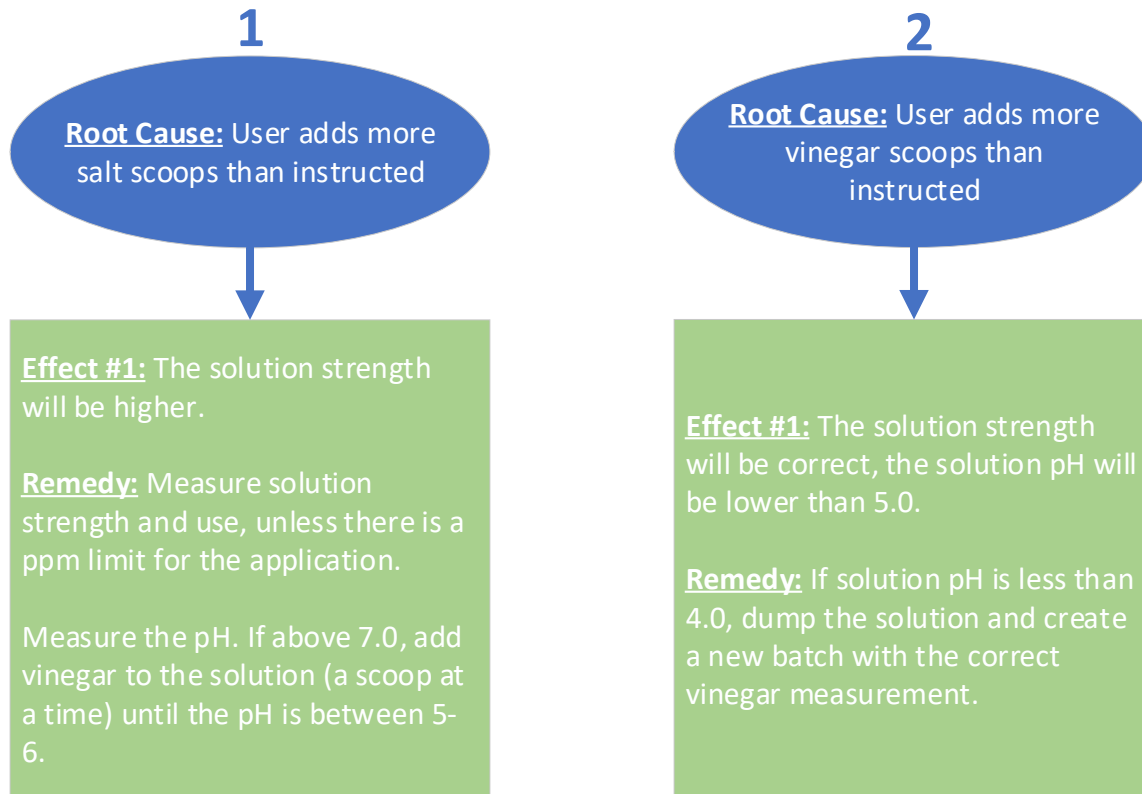
- Visual inspections for:
  - ❖ Calcium buildup on the cell. May occur due to high hardness in the supply water.
    - If there is calcium on the cells perform an acid wash as directed.

### WARNING

*Read all cautions and directions provided with any muriatic acid used. ALWAYS add acid to water. Use only with adequate ventilation. If a strong odor is noticed, STOP, ventilation is inadequate. Leave the area immediately. If the work area is not well ventilated you MUST use a properly fitted and maintained NIOSH approved respirator for acid fumes.*

- ALWAYS disconnect the unit before performing the cleaning outlined below.
- ALWAYS wear any PPE required by the muriatic pool acid product label.
- For light buildups of calcium (sporadic spots of white):
  - Use a 10:1 mix of water and muriatic acid (typically 2.9%) in the storage container.
  - Once the calcium has been dissolved off, dispose of solution according to regulation and immediately rinse with fresh water.
- For heavier buildups of calcium (consistent white around plates):
  - Use a 4:1 ratio of water and muriatic acid (typically 6.3%) in the storage container.
  - Once the calcium has been dissolved, dispose of solution according to regulation and immediately rinse with water.

## SECTION 5 - FAULT DESCRIPTIONS



3

**Root Cause:** User starts the machine without water

**Effect #1:** There is no effect from this scenario and nothing will happen.

**Remedy:** Fill the container with water and the consumables according to the solution strength desired. Start the cycle.

4

**Root Cause:** User starts the machine without salt

**Effect #1:** A small amount of fizz will occur at the cell with the ppm of the final solution being very low.

**Remedy:** Add salt to the solution according to the solution strength desired and rerun the cycle.

5

**Root Cause:** User starts the machine without vinegar

**Effect #1:** The pH of the solution will be approximately 9.0 to 9.4

**Remedy:** Add vinegar to the solution (a scoop at a time) until the pH is between 5-6.



## SECTION 6 - WARRANTY INFORMATION

The **HYPO SOURCE** HYPO 7.5 system carries a limited 5-year warranty

1. 5-year warranty on assembly of the system.
  2. 1 year on all electrical items and production tanks.
  3. 2,000 hours of operation or 5 years pro-rated monthly, on titanium electrodes. (Year 1 is warranted fully, thereafter pro-rated warranty applies, applicable over the remaining 4-year period.)
- **HYPO SOURCE** advises that titanium electrodes will have to be replaced approximately every 2,000 hours of operating time and are not warranted after 2,000 hours of use.
  - **HYPO SOURCE** warranties will not be honored should it be shown that the operating and maintenance procedures have not been followed, particularly with regard to the monthly cleaning checks.
  - During the warranty period the customer shall return the defective component, freight prepaid, accompanied by the original invoice or proof of purchase, and **HYPO SOURCE** shall at its sole discretion elect to repair or replace the defective component and return it to the customer, freight prepaid.

**HYPO SOURCE** accepts no responsibility other than to repair or replace a defective component, and this warranty specifically excludes product failure due to accidental damage, abuse, misuse, and negligence, damage due to non-compliance of the operating manual or unauthorized alterations or modifications to the system. **HYPO SOURCE** accepts no responsibility and is not liable for any extended warranties or variations to this warranty offered by re-sellers of **HYPO SOURCE** systems.

## SECTION 7 – PARTS GUIDE

**Part #:**  
KITESTK2.0HYPOM7.5

**Part #:**  
KITCBPSHYPOM7.5

