

# Hydrogen rich water bottle instruction manual

Model: PEM+



**Advanced features:**

- PEM Dual Chamber membrane technology, *DuPont*® membrane
- Distilled water, purified water, RO water are all acceptable
- Separates and expels harmful by-products of Chlorine, Ozone and Oxides
- Produces the highest industry levels of molecular Hydrogen concentrates
- No filters or any expensive parts to replace
- Long electrolysis plate life

## Important Information:

- Water quality that should be used

To receive the best results and highest quality H<sub>2</sub> water we recommend using good quality drinking water. (distilled, purified or RO water) Do NOT put carbonated liquids in the bottle. They will generate too much pressure that can damage the bottle.

- Before using bottle for the first time

*Fill the bottom of bottle with 1 inch of water and let sit for 4 to 5 hours to saturate the PEM membrane. If the bottle is left dry for long periods of time you will want to repeat this step.*

- Storage of hydrogen water

You may store your water in the refrigerator. A sealed container will keep it active.

- Cleaning and regular maintenance

Avoid using organic solvents or strong chemicals. Mild soap and water works best.

- Do not soak in water

Do not put the lower generator base of the bottle into water. It contains electrical components that can be damaged by immersing into water.

- Avoid direct sunlight

Keep the bottle away from direct sunlight.

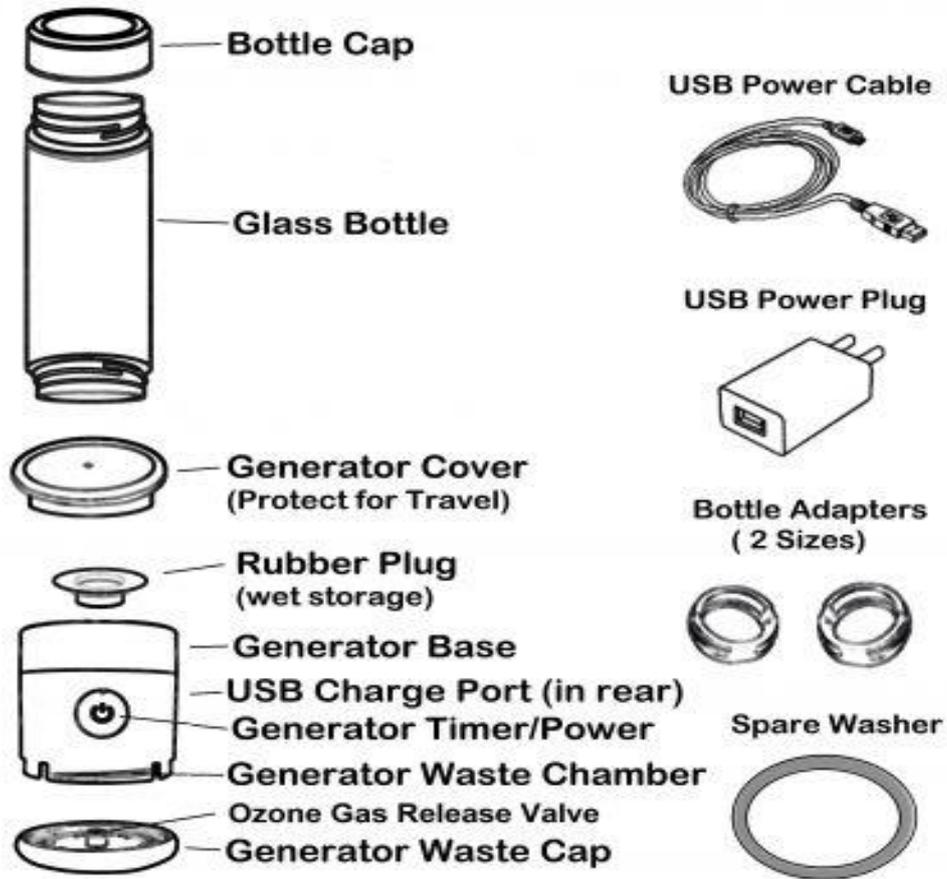
- Avoid freezing

Keep the bottle away from freezing temperatures.

- Warranty service

Warranty service should only be done by factory authorized distributor or repairman. Contact us at [info@hydrogen4health.com](mailto:info@hydrogen4health.com) If your bottle needs service.

### Product parts diagram:



### Before first use:

Remove silicone rubber plug from generator base. This plug is used to keep membrane wet during shipping and storage.



*Fill bottle with at least 1 inch of water to activate membrane. Membrane must be fully saturated with water. Let bottle sit for 4-5 hours to fully saturate.*

Connect power cord to bottle and power adapter and fully charge. The red light flashes while charging and stops flashing when charging is complete.

Keep charger dry and avoid exposure to direct sunlight. Use only the charger provided to charge your bottle. Do not attempt to connect to any other device.

## Instructions for use:

1. Clean bottle prior to use. Fill with drinking water just below the rim, then screw lid on tightly.
2. Press power button. The working indicator light will turn **blue**, making H<sub>2</sub> for 5 minutes. Pressing the button for a second time will turn the working indicator light **green**, making H<sub>2</sub> for 7 minutes. Pressing button a third time will turn power off.
3. After a 5 or 7 minutes cycle the working indicator light will turn off, completing process. For higher concentration of H<sub>2</sub>, use the 7 minute cycle or multiple cycles. The bottle cap has a pressure relief enabling multiple cycles.
4. You can drink the hydrogen water directly out of the bottle or pour it into another container. It is best to drink water within one hour. Hydrogen will dissipate over time.
5. If the working indicator light flashes **red**, this means the battery power is low and needs to be charged. Plug the USB power adapter into the wall and plug the USB power cable into the adapter. The charging micro USB charging port is located underneath the black rubber cover on the generator base. When charging is complete make certain the rubber cover is inserted into the micro USB port. This will keep water from entering the base and electronics.
8. After using bottle for 3 or more cycles there may be a little waste water that was generated in the waste chamber. Unscrew generator waste cap and empty. If there is no water in the waste chamber this is normal. The bottle is controlling pressure adequately. Waste chlorine, ozone and oxygen as gases are released into the waste chamber and out the gas release valve.
8. How to attach a drinking water bottle.
  - α. Choose a suitable adapter to match the bottle neck, then screw adapter to generator tightly. Use the generator cover sideways to screw in adapter.
  - β. Screw generator to drinking water bottle
  - γ. Turn over and start cycle.



(Do NOT turn power on when there is no water in the bottle!)

## Product parameters:

Power	≤10W
Maximum volume	300/350/400ML
Water quality demand	Drinkable water
Water temperature	0-60 degree C
Size	D67mm*H225mm (2.6" x 9" )
Net weight	544G (1.2 lbs)
Hydrogen concentration	1.0 -2.1 ppm ( 5 min - 7min cycle )
ORP	-450mv ~ -650mv
Cup materials	Glass/Plastic

## Maintenance:

- Daily cleaning

Rinse inside of bottle with water. Fill half full and shake vigorously. Pour off water leaving a small amount in bottom to keep membrane moist, close lid

- Periodic cleaning

Use citric acid to clean the electrolysis plates. This plate is located in the bottom of the bottle. Over time this plate will collect mineral deposits and scale that impede the production of hydrogen. Fill bottle half way and drop in 5 grams (1teaspoon) of citric acid, close lid and shake vigorously. Soak for 1 to 2 hours, shake several times and pour off dirty water. Rinse again with clean water.

- Odor treatment

After long periods of use the bottle may give off odors. Pour in 60 to 80 degree C (140 to 170 F) water and soak for 5 minutes to eliminate.

- Do not pour boiling water into bottle. Do not put water over 80 degrees C (170F) into the bottle.

- Do not clean bottle with detergents or volatile solvents.

## Troubleshooting:

Symptom / Problem	Fix
My bottle isn't making hydrogen	Charge battery Check/Replace power cord Membrane may be dry. Reactivate by putting 1 inch of water in bottle and let sit for 24 hours.
My bottle wont charge	Replace or try a different power cord
Power button blinks red 3 times and stops when I plug in power cord.	May need new battery. Contact us for repair.
My bottle is leaking	Check silicone seal for damage between upper container and base/ upper container is not screwed tight enough to base.
My bottle is making large bubbles	Remove silicone shipping plug from electrolysis plate/Membrane may be dry, reactivate (large bubbles are not oxygen. They are hydrogen bubbles)
My bottle isn't making waste water	This is perfectly normal. The bottle is controlling pressure adequately. Waste chlorine, ozone and oxygen as a gas are released into the waste chamber and out the gas release valve.
Light blinks when operating unit	Low battery indicator. Charge Unit ASAP
Low PPM levels when tested with Blue Drops	Allow 7 days to break-in. Operate the unit more times to activate PEM membrane
Water in new generator when removing from box for the first time.	Product is shipped wet. Water is for keeping membrane moist.

**Disclaimer: These Products have not been evaluated and are not intended to diagnose, cure, treat or prevent disease. Seek medical advice if seriously ill and or attempting to cure or prevent disease.**

**Contact us:**

Email: [info@hydrogen4health.com](mailto:info@hydrogen4health.com)



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