

Osmio Duo Hydrogen Water Bottle Instruction Manual



Telephone: 0330 113 7181
Email: info@osmiowater.co.uk

osmio
WATER TECHNOLOGY

Product specifications

Important features

Proton Exchange Membrane (PEM) technology. Must be kept wet to ensure long life.

State of the art Solid Polymer Electrolysis (SPE) technology.

Works with all types of drinking water but the water used must be safe to drink. Makes more hydrogen the purer the water is, average range of H₂ is 0.4ppm-1.2ppm.

Separates and expels by-products of Chlorine, Ozone and Oxides. Use the bottle on a flat surface or table to allow the ozone gas release valve to open. Some water is discharged via the bottom of the bottle.

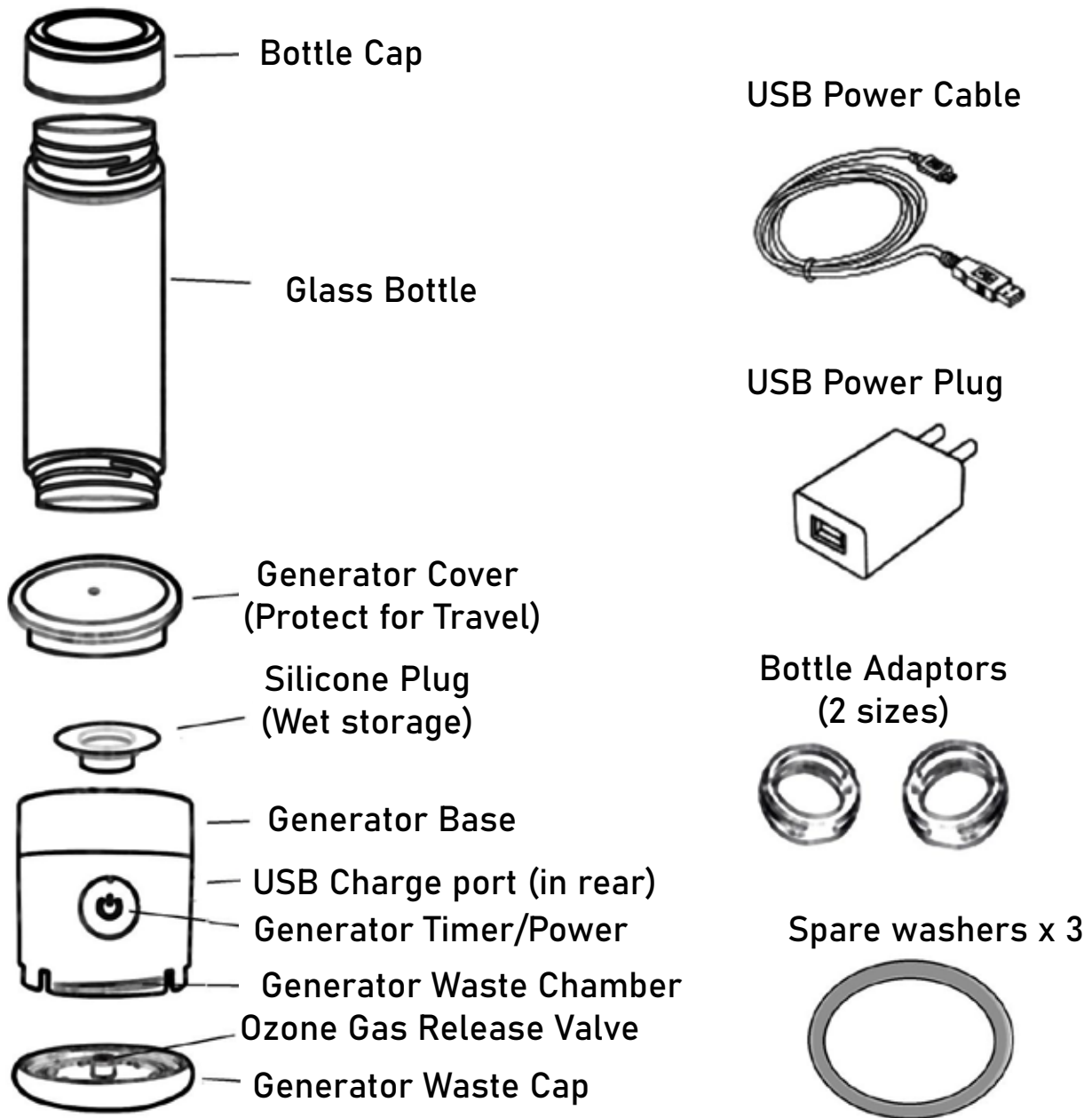
High quality Platinum coated Titanium Electrode Plates.

Power	USB 5V / 2A Output: ≤10W
Bottle Capacity	400 ml
Water Type Required	All potable drinking water
Water Temperature Range	32° - 140 °F / 0° - 60 °C
Dimensions	2.6" x 9" H 67 mm W 225 mm
Unit Net Weight	1.2 lbs / 544 g
Hydrogen Generation Range	1.2 - 2.4 ppm (depends on working time)
ORP Range	-350 mv ~ -750 mv
Bottle Material	Borosilicate glass

Thank you for purchasing this product, please read this manual carefully before using the system, and keep it for future reference. If you have any questions after reading this manual, please call us on 0330 113 7181

List of components

Please ensure that you have everything in this diagram as well as the adaptor lid for the breathing cannula and the cannula tube. If there is anything missing please contact Osmio water for support.





Important Notes

DO NOT LET THE GENERATOR DRY OUT - DO NOT LEAVE IT UNCOVERED, ALWAYS LEAVE A SMALL AMOUNT OF WATER IN THE BOTTOM TO KEEP THE ELECTRODE PLATES MOIST, INSTALL THE SILICONE GENERATOR PLUG WHEN STORING OR TRAVELLING

DO NOT OVERCHARGE THE BATTERY ON THE UNIT - AS SOON AS THE RED LIGHT STOPS BLINKING AND REMAINS ON REMOVE FROM THE CHARGER

THE PURER THE WATER USED THE MORE HYDROGEN WILL BE PRODUCED

CLEAN THE UNIT TWICE PER MONTH AS DIRECTED

ALWAYS PLACE THE UNIT ON A FLAT SURFACE WHEN IN USE

Quick start up guide

Setting up

1. Wash off the sanitisation liquid - remove the glass bottle from the generator and remove the lid and wash with warm soapy water.
2. Remove the silicone generator plug which is sealing the generator and keep this in a safe place. It is used to keep the generator moist during shipment and storage.
3. Attach the clean dry glass bottle back on to the generator by twisting the bottle onto the generator and hand tightening. Screw the lid back on the bottle.
4. Insert the charging cable into the charging port (this has a silicone cover flap). Then insert the USB side of the cable into the power plug and plug into an outlet.
5. Charge the bottle for 2-3 hours until fully charged and then remove charger.
6. With the bottle attached rinse out the generator with warm water.
7. Fill the bottle with clean drinking water.
8. Now you are ready to start the electrolysis process.



**IMPORTANT: DO NOT OVER-CHARGE, OVER-CHARGING
WILL LEAD TO SHORTENED BATTERY LIFE**

How to operate the bottle

1. To begin the electrolysis process press the power button. The working indicator light will turn blue, making H₂ for 5 minutes.

Pressing the button for a second time will turn the working indicator light green, making H₂ for 7 minutes. Pressing the button a third time will turn power off.



Blue indicates a 5 minute cycle



Green indicates a 7 minute cycle

2. After a 5 or 7 minutes cycle the working indicator light will turn off, completing the process. For a higher concentration of H₂, use the 7 minute cycle.
3. 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.
4. If the working indicator light flashes red, this means the battery power is low and needs to be charged.
5. Do not repeat the cycle more than twice as this can create too much pressure and damage the glass.
6. Make sure to operate the unit on a table or flat surface to allow the opening of the ozone gas release valve on bottom.



IMPORTANT: Do not repeat the cycle more than twice as this can create too much pressure and damage the glass.

How to use the Breathing Cannula

The breathing cannula is an alternative to drinking water when drinking becomes restricted during air or car travel or in the evenings when drinking water before bed can interrupt sleep with necessary trips to the bathroom.

There is only so much water you can physically drink in a day, but you can breathe as long as you want to.

H₂ Gas Flow: 10- 20ml/min approximately.

Instructions

1. To use the breathing cannula please use the second bottle lid provided, this has a snorkel valve protruding in the centre.
2. Attach the cannula breathing tube to the lid.
3. Fill the bottle $\frac{3}{4}$ of the way full, with water and screw on the adapter-Lid to the top of the bottle with the Cannula breathing tube attached.
4. Place the loop end of the Cannula tube over your head and the two breathing prongs into each nostril.
5. Adjust the slack-bead behind your neck to be snug against the back of your head. Begin cycling the bottle on a 7 minute cycle repeatedly to create enough pressure to push Hydrogen gas up the cannula tube and into your nose.
6. Continue cycling until you no longer desire to inhale the gas.
7. If using for a longer than 7 cycles please replace the water.



How to use adaptors for other bottles

If you are attaching any other bottle to this device follow the steps below.

1. Choose a suitable adaptor to match the bottle neck (there are two different ones supplied), then screw the adaptor onto the generator tightly. Use the generator cover sideways to screw the adaptor onto the generator.
2. Screw the generator (with adapter attached) on to your bottle of choice, make sure this is fairly tight like a cap to avoid leaking.
3. Turn over and generate up into bottle.



IMPORTANT: USE THE SILICONE GENERATOR PLUG WHEN THERE IS NOT BOTTLE ATTACHED TO HELP KEEP THE GENERATOR MOIST



Important things to remember

Do not leave the bottle on charge for longer than 3 hours. Always ensure to use all the battery before recharging again. The unit will stop charging when the LED light stops blinking, when this happens remove the bottle from charge. Over charging will lead to drastic deterioration of the battery.

Never operate the generator without water in the bottle. Do not soak or submerge the generator unit under water. Do not place the generator unit in a refrigerator or cooler. Never use any chemical cleaners on Generator unit. Do not pull cable from wire or plug with wet hands.

Depending on the mineral oxide content in your drinking water, clean the electrolysis plates by descaling once or twice a month.

After 3 or more cycles some waste water may accumulate in the bottom chamber, to release this, unscrew the bottom chamber and drain the water. If no water is discharged in the waste chamber, that is normal, the machine is controlling pressure adequately, waste O_{zone} and Chlorine are discharged as a gas.

Never let the generator dry out, to ensure this does not happen leave a small amount of water in the bottom to keep the electrode plates moist.

Keep USB Port sealed by plugging its cover back in.

Operate only with clean and safe drinking water, filtered water is preferable but tap water can also be used. Not for use with hot, carbonated or other beverages. Use room temperature water. Never freeze or use ice.

Avoid direct sun light or heat that can dry out the plates.

We do not recommend drinking water that has been cycled more than twice, release the gas pressure at the lid if cycling more than twice (if you do not have the cannula attached).

Keep away from children, Pets, Heat and Flames.

Descaling and Maintenance

Depending on the mineral oxide content in your drinking water, clean the electrolysis plates by descaling once or twice a month.

Using reverse osmosis filtered water will prevent the need for descaling but this is a good process to follow to clean and maintain the bottle.

To descale, simply mix 1 tbsp of citric acid to 1L of water, or 1 tsp of citric acid to 500 ml of water. Leave for 15 minutes and then discard the mixture and rinse thoroughly with warm water before using again.

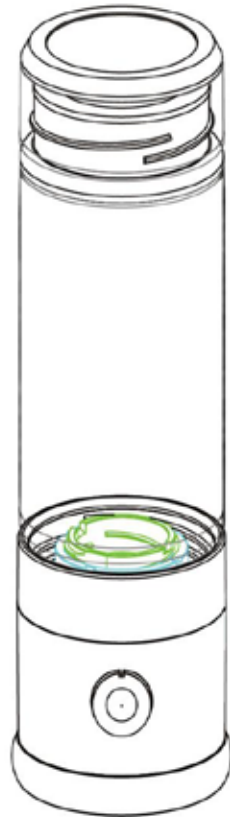
The main thing to remember is to not over-charge and to keep the generator moist so that the electrolysis plates do not dry out. Let the battery run out and then charge only on the lead for 1-2 hours max to get the most out of your battery life. Battery replacement service and other spare parts and technical support available from Osmio Water.

Trouble shooting

No visible bubbles	<ul style="list-style-type: none">• Check power source• Remove plug and obstacles
Light blinks when operating unit	<ul style="list-style-type: none">• Low battery indicator• Charge Unit
Low PPM levels when tested with H2 Blue Drops	<ul style="list-style-type: none">• Allow 7 days to break-in• Operate for 7 minutes (2nd cycle option)
Wetness in Generator	<ul style="list-style-type: none">• Units are shipped wet
Battery not charging	<ul style="list-style-type: none">• Check for defective Plug or cable.
Bottle has odour or Unit makes less gas	<ul style="list-style-type: none">• Clean and de-scale as needed• Use different water source
Unit stopped working	<ul style="list-style-type: none">• Contact For Support
Glass bottle broke	<ul style="list-style-type: none">• Contact to order replacement
Machine is Leaking water	<ul style="list-style-type: none">• Check all seals, tighten lid• Check or empty waste chamber• Fill water to ½ of top rim

If you have any other issues or queries please contact us on:

Telephone: 0330 113 7181
Email: info@osmiowater.co.uk



Enjoy your bottle!

If you have any questions, issues or concerns about this products please contact Osmio Water for support. You can do this by visiting <https://www.osmiowater.co.uk/> or using the below contact options

Telephone: 0330 113 7181
Email: info@osmiowater.co.uk