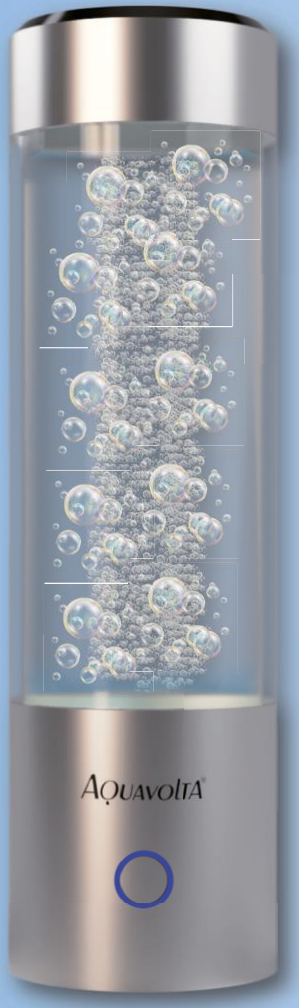



BPA FREE

Enhanced NANO-BUBBLES

# AQUAVOLTA®

# $H_2$ -TURBO

## Hydrogen booster
## 6th generation

# MANUAL

by Karl Heinz Asenbaum Version
2022/01/18

euro multi media

# 2 - What is AquaVolt®?


- *The brand name Aquavolta® is composed of the Latin term for water (Aqua) and the name of the inventor of the battery, Alessandro Volta. It stands for electroactivated water.*
- *In Germany, it was originally referred to as electrolyte water, and later as "active water". In the English-speaking world it is often referred to as "reduced", "ionized" or "hydrogen-rich" water.*
- *The characteristic of AquaVolta® is that it has a negative electrical voltage with respect to a measuring electrode, a so-called negative redox potential.*
- *The lower the redox potential, the greater the readiness of the water to donate electrons. For every 0.018 volts (18 millivolts) lower redox potential, this readiness doubles. AquaVolta® water has a 400 to 800 millivolts lower redox potential than tap water or bottled mineral water.*
- *Due to its high readiness to release electrons, AquaVolta® is also called antioxidant water. However, it is not only used by doctors for therapy, but is also establishing itself as a modern everyday drink due to its pleasant taste*
- *From today's scientific point of view, the* ***dissolved hydrogen gas content ("dissolved hydrogen" or $dH_2$ )*** *is mainly responsible for the antioxidant power of AquaVolta®. To enhance this, the AquaVolta® $H_2$ - Turbo was developed. It reflects the state of the art in 2022.*

# 3 - TURBO: The 6th generation of hydrogen boosters




- Hydrogen gas, $H_2$, has been recognized by medical research as the "gas of life" only in the 21st century. When drunk, dissolved in water, this can produce antioxidant, anti-inflammatory and anti-apoptotic effects. In recent years, a mitohormetic effect has also come into focus, with benefits similar to athletic training.
- When this began to be understood, an industry first developed that pressed hydrogen-rich water at high pressure into aluminum cans or bags, where the $H_2$ content could be preserved for several months. This is not only very expensive, but also causes major waste problems.
- Bubble tablets were also developed that could produce hydrogen-rich water. However, they are relatively expensive in the long run and have an acidic aftertaste.
- European consumers in particular therefore gave preference to a do-it-yourself solution, for which Karl Heinz Asenbaum coined the term "hydrogen booster" in his book "Electroactivated Water" published in 7 languages.
- The basis of the do-it-yourself solutions is always the electrolysis of water. Thus, stationary water ionizers work with a diaphragm electrolysis, while mobile electrolysis devices work with a so-called PEM cell, in which the electrolysis gases $H_2$ and $O_2$ are cleanly separated and only the hydrogen accumulates in the water. In addition, boosters such as the Aquavolta® $H_2$ - Turbo use pressure systems to dissolve as much $H_2$ as possible in the water. In the 6th booster generation, it has now been possible to keep the gas bubbles so small that the efficiency of the booster has been significantly increased.

# 4 - Always fresh hydrogen (almost) free water selection

You can use your booster anytime and anywhere thanks to its long-lasting battery.

We designed the AquaVolta® $H_2$ - Turbo Hydrogen Booster so you don't have to rely on a single type of water. If you don't trust the tap water you have on the go, you can add filtered tap water and even water from a reverse osmosis (RO) system to your booster.

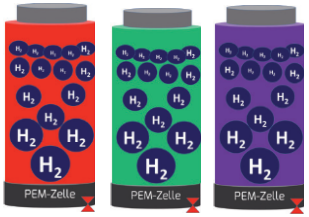
You can also fill the BPE-free Tritan container with your favorite mineral water. It is even possible to unscrew the Tritan container and screw on a mineral water bottle with a 30 mm thread (plastic bottles only!) instead.

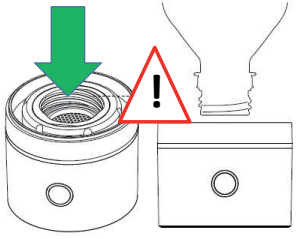
Important restriction: The water must not contain any carbonic acid. Otherwise, the gas pressure will exceed the capacity of the overpressure system and the booster could be damaged or even burst.

Drinking water of

RO water suitable!

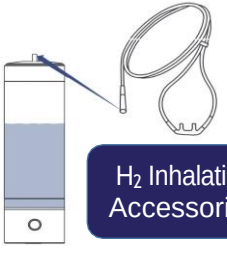
Bottle suitable!




Since bottles do not have Pressure equalization holes have, this is Method always 2nd choice. Maximum production time 10 min!

&

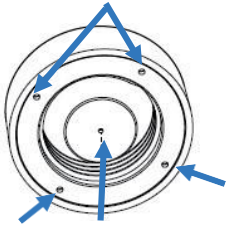


$H_2$ Inhalation Accessories

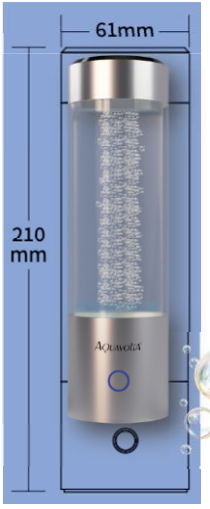
# 5 - Device description / scope of delivery

Pressure equalization holes in the screw cap

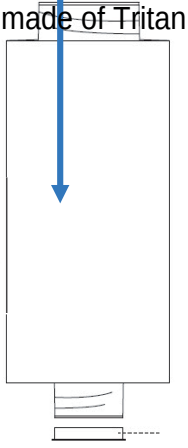
Do not block!



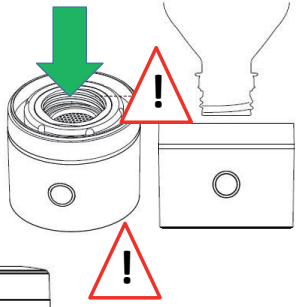
Screw cap

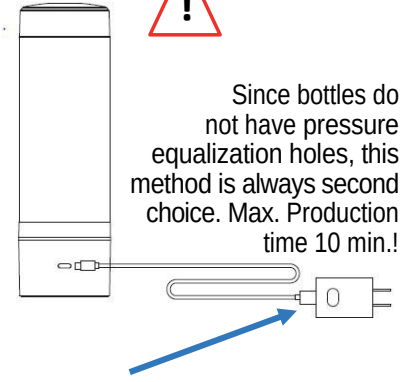



Screw-in production container 250 ml made of Tritan

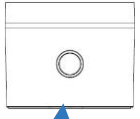


Bottle thread for 30 mm bottles

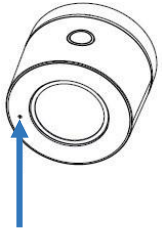


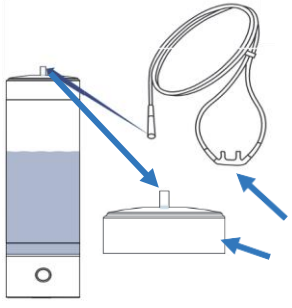


Since bottles do not have pressure equalization holes, this method is always second choice. Max. Production time 10 min.!



$H_2$ - Generator





Pressure equalization hole in the production vessel. Do not block. Drops can form here

Exit.

USB power supply with USB-C connector

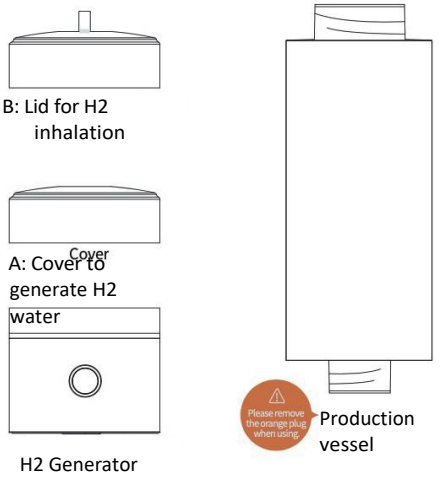
Seal

Nasal cannula for H2 inhalation

Lid for H2 inhalation

# 6 - Operation preparation

1. The device is built from 3 components. The H2 generator. The production vessel and a lid. The lid is available in 2 versions: A: Lid for H2 water production. B: Lid for H2 inhalation.
2. Before commissioning, unscrew the production vessel, remove the orange silicone plug and keep it. On a new device, there may still be residual water under the plug for membrane protection. Please pour this away and rinse with clean water.
3. If you do not use the device for more than one week, fill water into the electrolytic cell to a height of max. 1 cm and close it with the silicone plug.




## Tips

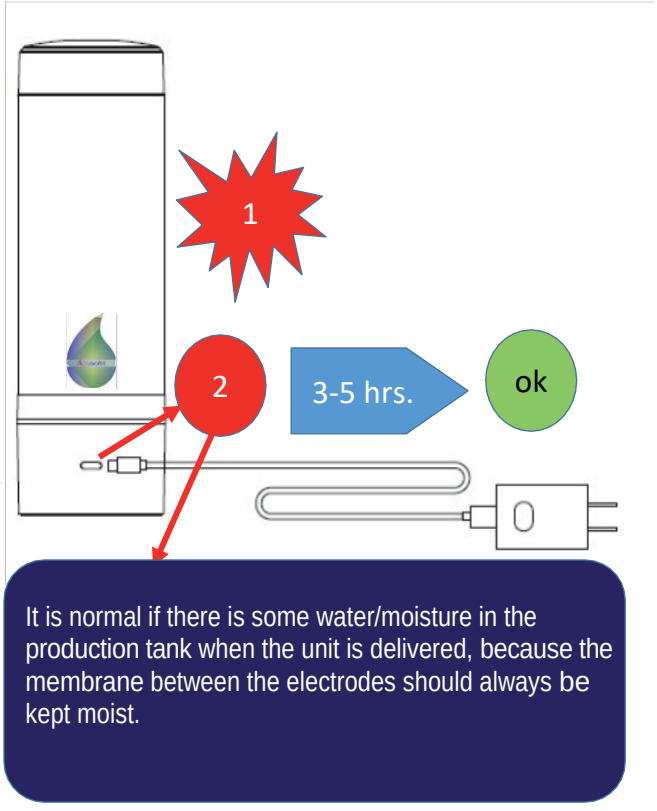
- Before first use, fill the production vessel with water for at least 30 minutes to soak the electrolyte membrane. Then pour the water away.
- The production vessel should be kept constantly moist.
- Filled water must never be above 60o C.
- Never immerse the device in water.
- Do not start the hydrogen production several times in succession without opening the lid in between.

# 7 - General instructions for use

- Only operate the device if you have read and understood the operating instructions.
- Before you switch on the unit, the water tank must be filled with water. Otherwise, the electrolytic cell will be damaged and the warranty will be voided.
- You must not fill water above 60 degrees C.
- Use the power supply only with 220 volts.
- Ensure that children do not have access to the device.
- Never put the device under water. A damp cloth is sufficient for cleaning. Do not use chemical cleaning agents.
- Never drop the device.
- Use cold water if possible (below 30° C)
- Do not expose the device to direct sunlight or temperatures below 0 or above 50 degrees C.
- Do not place the device in damp or dirty rooms.
- Do not place the device outdoors
- Do not use the power supply if it is damaged or the cable has been kinked.
- Do not place heavy or pointed objects on the power cord.
- Do not touch any parts connected to the mains with wet fingers.
- Only use water of drinking quality if you intend to drink the water afterwards.
- You must **not** use **carbonated water (sparkling water).** This could cause the device to explode.
- Do not open the power supply unit or the base unit and do not attempt any repairs in the event of a defect. In the event of a defect, disconnect the device from the power supply immediately and notify your dealer.
- Do not dispose of the device in household waste.

# 7 - Preparation for operation and charging

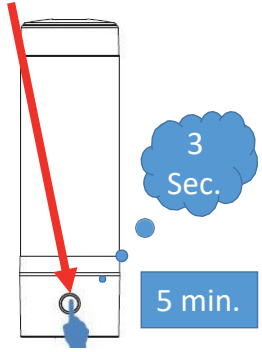
1. Place the device on a dry flat surface.
2. Insert the USB-C plug of the power adapter and charger into the socket. The battery must be fully charged before first use.
3. The LED starts flashing red.
4. Before the first operation, fill the glass container with max. 60o C warm water and let it stand for at least 2 hours to moisten the membrane cell completely. Finally, renew the water again and shake for about one minute.
5. Then you can fill in the water that you want to enrich with hydrogen and drink. Only enough water should be poured in so that the water level does not touch the pressure cap, so that no water penetrates there.
6. At the end of the charging process, the LED lights up permanently
7. Remove the plug from the power supply and charging unit. If possible, the generator should not be operated during charging due to battery wear.
8. If the LED starts flashing during operation, the power supply and charger must be reconnected until the battery is charged.
9. If the power adapter is defective or not at hand, you can also use a common USB-C power adapter, for example for smartphones.

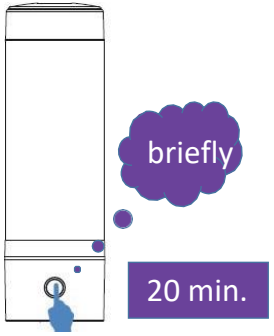


# 8 - Production hydrogen water or $H_2$ inhalation

Important: the device must be filled with drinking water before you press the start button.

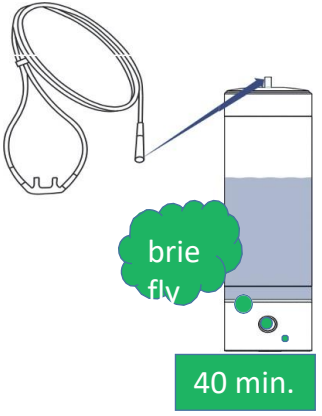
-Press the start button for 3 seconds. A beep indicates the start. Blue light turns on and you can recognize the hydrogen production by the fine bubbles rising. The production process takes 5 minutes. If you press the start button again briefly, the 20 min interval operation starts (5 min - 10 min pause - 5 min). Display purple.




- If the light changes to red and flashes, you should recharge the device. During the charging process, the LED is permanently red until a green light indicates complete charging. You should not produce hydrogen water during the charging process.

- Each production phase ends automatically. This can be recognized by the LED going out and the bubble formation being stopped. If you want to stop a running production, press the start button again for 3 sec.

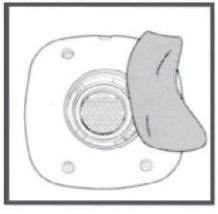



- For the 40 min. special operation for "Inhalation", briefly press the start button again during the "Purple" operating mode. The green display appears for 40 minutes, provided that the battery is sufficiently charged.

- When you now use the nasal cannula, approx. 5 ml of $H_2$ gas per minute is added to your breathing air. Recommended for power napping (midday nap) or while working at a computer screen. However, therapeutic applications discussed scientifically to date require inhalers of 100 ml/minute or more.

# 10 - Cleaning / Equipment hygiene / Technical data

- The inside of the Tritan container and the grid-shaped round minus electrode, which produces the hydrogen, must be cleaned with 1 teaspoon of citric acid dissolved in lukewarm water if there are visible traces of lime.
- Close the screw cap and shake vigorously for 30 sec. Allow the citric acid solution to react for 1 hour and then rinse the container with lid and the electrode several times with warm water.
- This cleaning is also necessary for hygienic reasons at least every 2 weeks or if disturbing odor is perceived in the device. In this case, the water should be approx. 50 - 60 degrees C hot.




- Wipe the exterior of the device with a damp soft cloth.
- You can also remove coarse soiling by half-filling the pressure vessel with warm water and shaking it vigorously.... Then pour away the rinsing water.
- Store the device at room temperature and not in direct sunlight.

| Aquavolta® $H_2$ - Turbo | Technical data |
|---|---|
| Weight (empty) | 330 g |
| Voltage/Power | DC 5V / 2A |
| Power reserve/battery | Approx. 18 applications (5 min.) - fully charged/ 1500 mAh/7.4 V |
| Charging time<br>Operating time battery | Approx. 90 minutes<br>Approx. 90 minutes (water-dependent) |
| Power supply (USB-C) | 100 - 240 V, 50/60 Hz. DC 5V, 2 A |
| Hydrogen power | Level, water and time dependent. Approx. 0.4 ppm/min. |
| Temperature range | 0-40°C |

# 11 - Error Check/Service/Warranty

| Problem | Cause testing | Solution |
|---|---|---|
| Booster<br><br>does not work (no bubble development ling) | Battery charged?<br><br>Foreign body in the Pressure vessel? | Connect power supply unit if necessary<br>Production containers and Unscrew cover and clean separately |
| LED does not light | Battery charged? | Connect power supply unit if necessary |
| Charging does not work | Check plug and cable | If power supply unit is defective. Notify dealer. |
| Leakage | Check the seat and condition of the seals | Adjust seals or replace with replacement seals if |
| | AQUAVOLTA® | |
| | | |

Your retailer is responsible for and the contact person for warranty services. This applies in particular to promises that exceed the two-year statutory warranty. All warranty commitments are therefore listed on your retailer's proof of purchase (invoice).

Aquavolta® General Sales and Service Center:
Aquacentrum, Inh. Yasin Akgün
Münchener Str. 4 a
D-85748 Garching near Munich
www.aquacentrum.de

- Waste Electrical Equipment Register: WEEE Reg. No. DE 93599565
- Aquavolta® is a word mark protected by the German Patent and Trademark Office as well as by the EUIPO


Please note the serial number here for service queries.
You will find this on the underside of the $H_2$ generator.