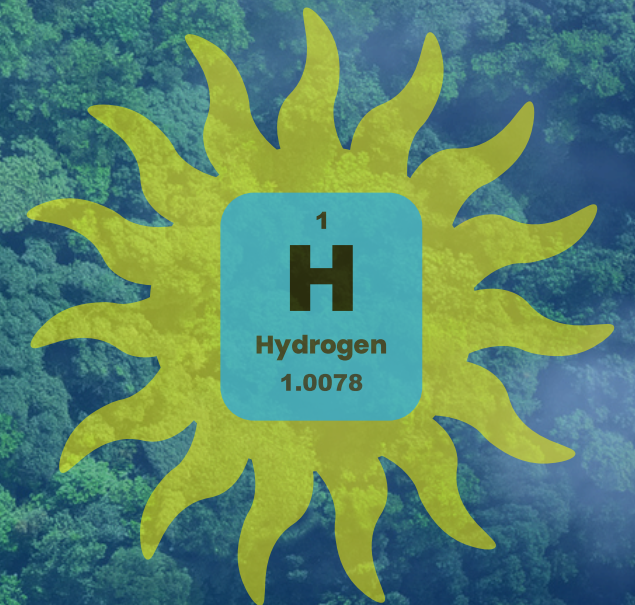




# USER MANUAL

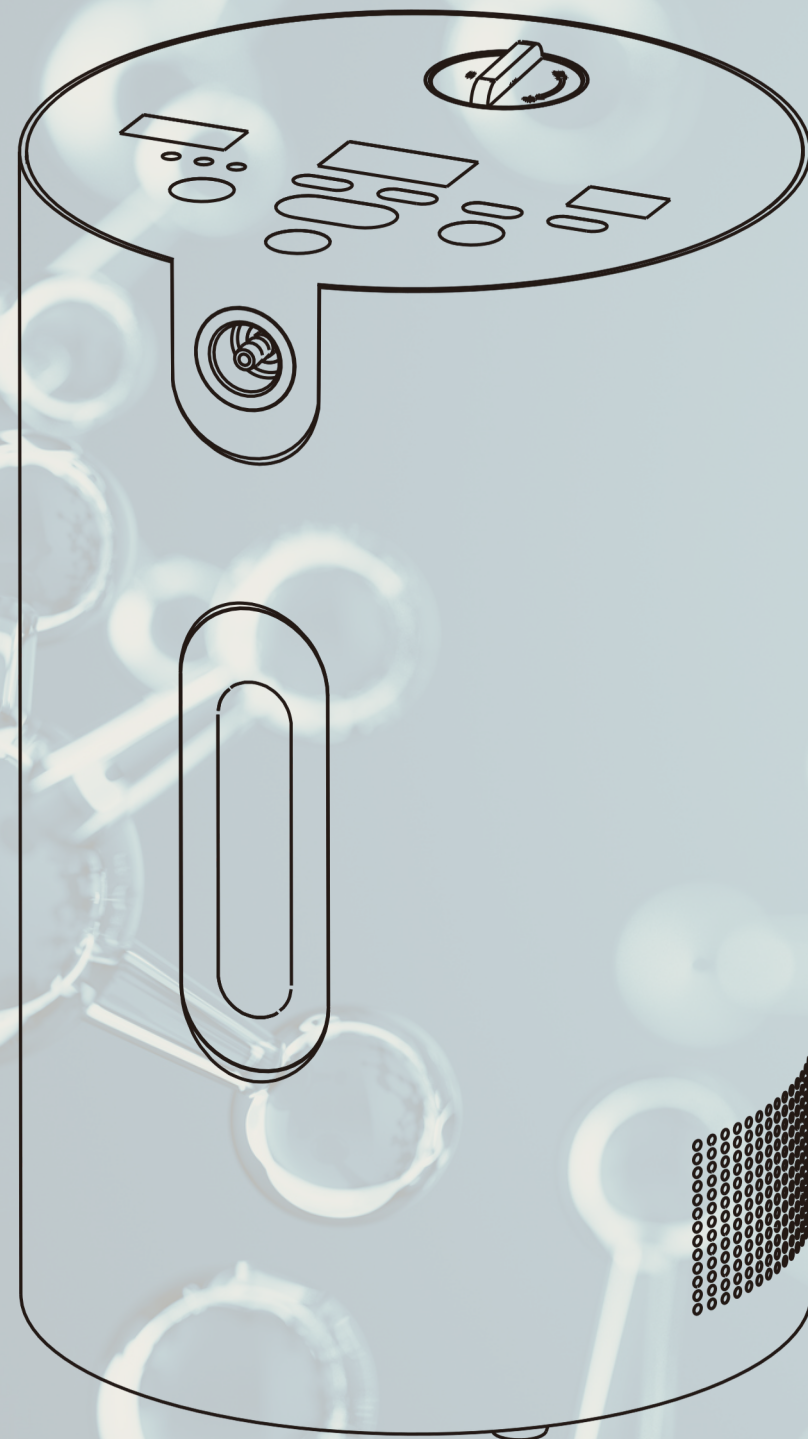
## *H2-GEN 200* HYDROGEN GENERATOR

H2





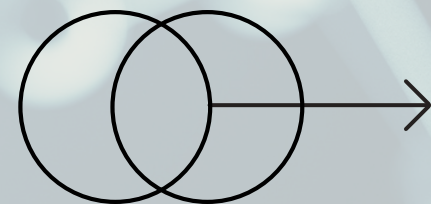
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# Warranty and Service

The H2-GEN is supported by a 24 month warranty against defects in quality. If the unit fails to operate correctly during the warranty period, please open a support ticket at our help-desk (<http://link.biorez.life/help>) or email us ([support@biorez.life](mailto:support@biorez.life)) to receive technical support. Contact our help-desk if the device is out of warranty and requires service.

The following situations are not covered by the warranty:

- damaged or broken by contact.
- disassembled or modified.
- improper use and maintenance - not in accordance with this Manual
- Failure caused by natural disasters and other force majeure factors (such as earthquakes, fires, lightning strikes) and other reasons.
- Warranty period has expired.
- Failure due to reasons such as installation, repair, change, disassembly, incorrect input voltage, or impurities have entered the water tank.
- Failure due to the use of unapproved parts.
- The use of optional parts or auxiliary devices.

Contact our help-desk if the device is out of warranty and requires service.

# Technical Specifications

Voltage: 110/220 VAC 60/50 Hz	H2 Flow Rate: 200 ml/min
Current: 18A@3.5V	H2 Concentration: 99.9%
Power: 120 W	Electrolytic Mode: Anode Pure Water Electrolysis
Dims: 220 D x 355 cm H	Water Source:Distilled, if not avail then use Demineralized (0 TDS)

# Inspection

Please check the H2-GEN unit to ensure that it has been delivered to you in perfect, brand-new condition. If there are any issues, contact us immediately.

Check Hardware page 6 to ensure that you have received all parts and accessories.

Remove the silicone plug as this is only used to prevent leakage of the protective water during transportation. Insert the plastic cover for permanent use.



Silicone plug



Plastic cover

# Caring for your H2-GEN

- Must be installed according to this User Manual.
- Do not drop, hit, or mishandle. Be sure to handle with care at all times.
- Do not use in high-temperature, wet, corrosive, or radioactive environments; otherwise, this will invalidate the warranty. Do not expose the device to direct sunlight.
- Do not disassemble as this will void the warranty.
- When not in use, disconnect the power cable.

H2-GEN 200 User Manual by Huf Sirius for the BIOREZ Wellness Project, October 6, 2024.



# PREFACE: **Benefits of H<sub>2</sub> Therapy**

Hydrogen molecules can neutralize hydroxyl radicals and peroxynitrite without affecting normal physiological free radicals which in excess will attack normal cells and damage protein structures leading to inflammation.

With further research, scientists found that hydrogen decreases the level of inflammatory factors and oxidative stress.

Hydrogen has been clinically shown to resolve ophthalmological diseases.

Scientists found that hydrogen is a "selective antioxidant"

Hydrogen is an integral building block of tissues and biological structures. Supplementing with H<sub>2</sub> inhalation and hydrogen water has been shown to extend lifespan, lower risk for disease and a whole host of profound benefits of this panacea.

Hydrogen inhalation is deeply relaxing and contributes to falling asleep faster and sleeping more deeply.

Hydrogen gives your cells direct energy to accelerate and enhance mitochondrial ATP production.



# What is the H2-GEN?

It is the result of years of research into the efficient and safe production of ultra-pure hydrogen using a high quality **proton exchange membrane electrolyzer**.

This type of electrolysis does not use chemicals and the electrolyzer does not rust resulting in a longer life.

The H2-GEN consumes ultra low power of only **120 watts** to produce a pure H2 flow rate of **200ml/min**.

- ✓ TDS Water Quality Monitoring
- ✓ Aerospace Aluminum Alloy
- ✓ Ultra-quiet Operation
- ✓ Temperature Control
- ✓ Automatic Drainage
- ✓ Low Water Sensor





# HARDWARE

Hydrogen Generator



Nasal Cannula (2)



Ear Cannula



Goggles



Water Bubbler



Power Cable  
Type A or C



Drain Tube





# SAFETY PRECAUTIONS



## **KEEP AWAY FROM FIRE**

Do not smoke or expose the generator to an open flame when in use.



## **DO NOT FLIP UPSIDE DOWN**

Keep upright and do not invert under any circumstances. If you stop using for a long time, drain all the water from inside the tank. If you need to move the generator, it is best to drain the water to avoid any risk of damage.



## **VENTILATION**

The generator should be placed in a ventilated room indoors and away from direct sunlight.

Do not place objects on the unit, especially liquids.

The room temperature should not be lower than 10°C and higher than 30°C. Too low or too high may cause the generator to not work properly.

## **KEEP SPACE CLEAN**

Good airflow is needed. Do not place any objects around the unit that may limit airflow as this can cause overheating, shutdown, or a drop in hydrogen concentration. Grease or grease-like substances must not be used in any way. When in operation, do not block the flow of hydrogen from the H<sub>2</sub> outlet. Do not twist, bend or interfere with the flow of hydrogen in the tubing and cannula.

## **BEFORE EACH USE**

Empty any water in the cannula's water collector container.

## **USE DISTILLED OR DEMINERALIZED WATER ONLY**

Other sources of water can damage the generator due to impurities. The user is liable for such damage and cost to repair or replace.

## **UNAUTHORIZED REPAIR AND DISASSEMBLY IS PROHIBITED**

Do not open or try to repair or disassemble the generator without permission, otherwise it is might be prone to fire, electric shock and other accidents.



How to Use

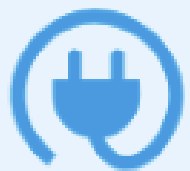


***H2-GEN***



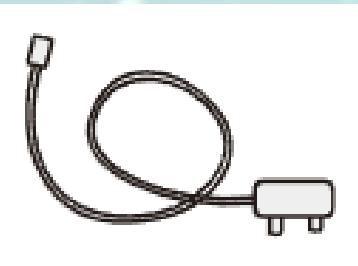
## Initial Setup

The unit may have a small amount of residual water in the tank. You might see condensation in the water level. If the water inlet plug is wet, wipe dry any moisture around the inlet.

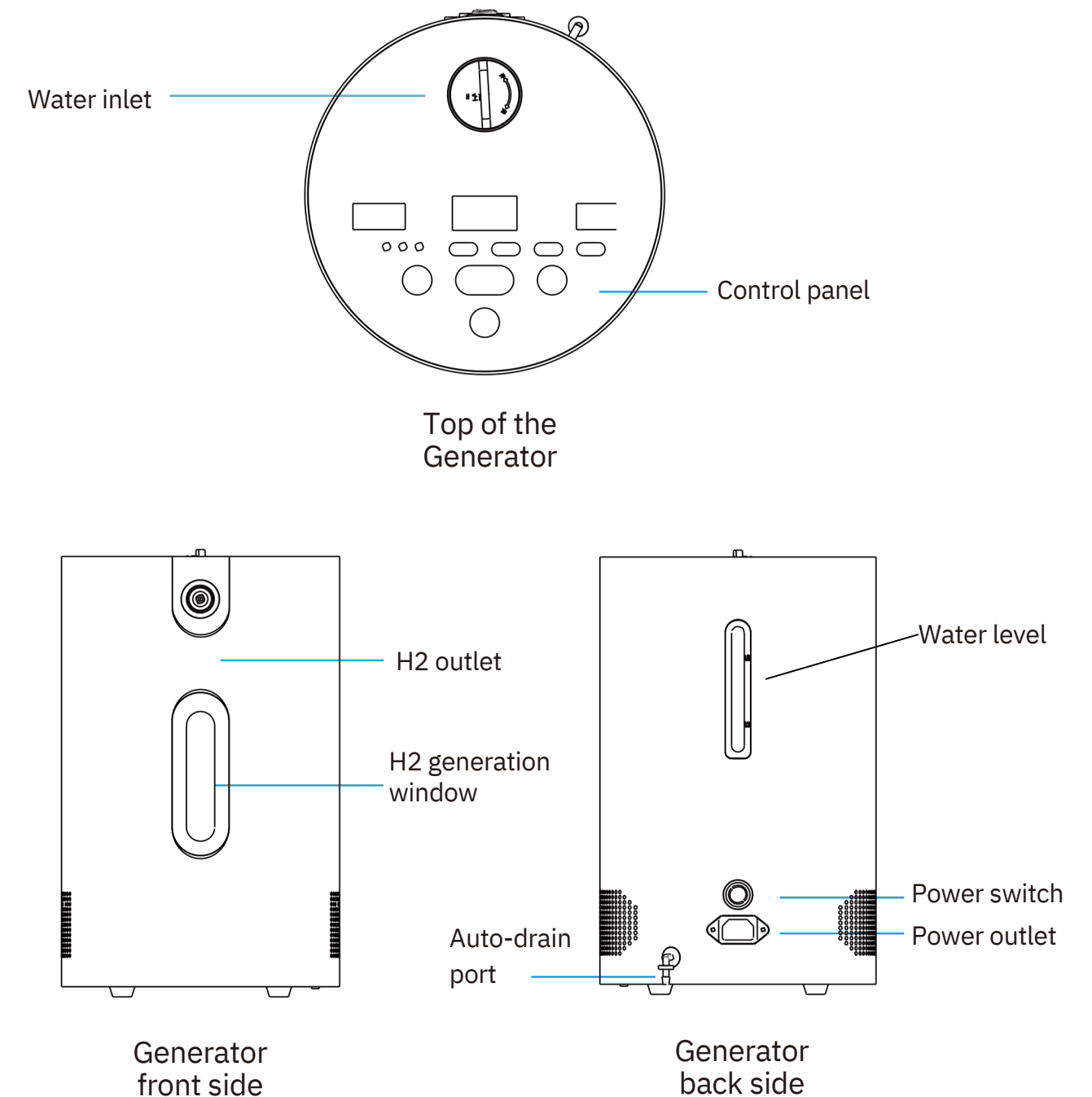


### BEFORE PLUGGING IN

Confirm that your power supply voltage matches the specifications on the back of the unit.



Connect the power cable to the power outlet on the back of the unit. Plug-in the other end of the power cable to the power supply. Turn on the red power button above the power outlet button. The unit will enter standby mode.





## Power On

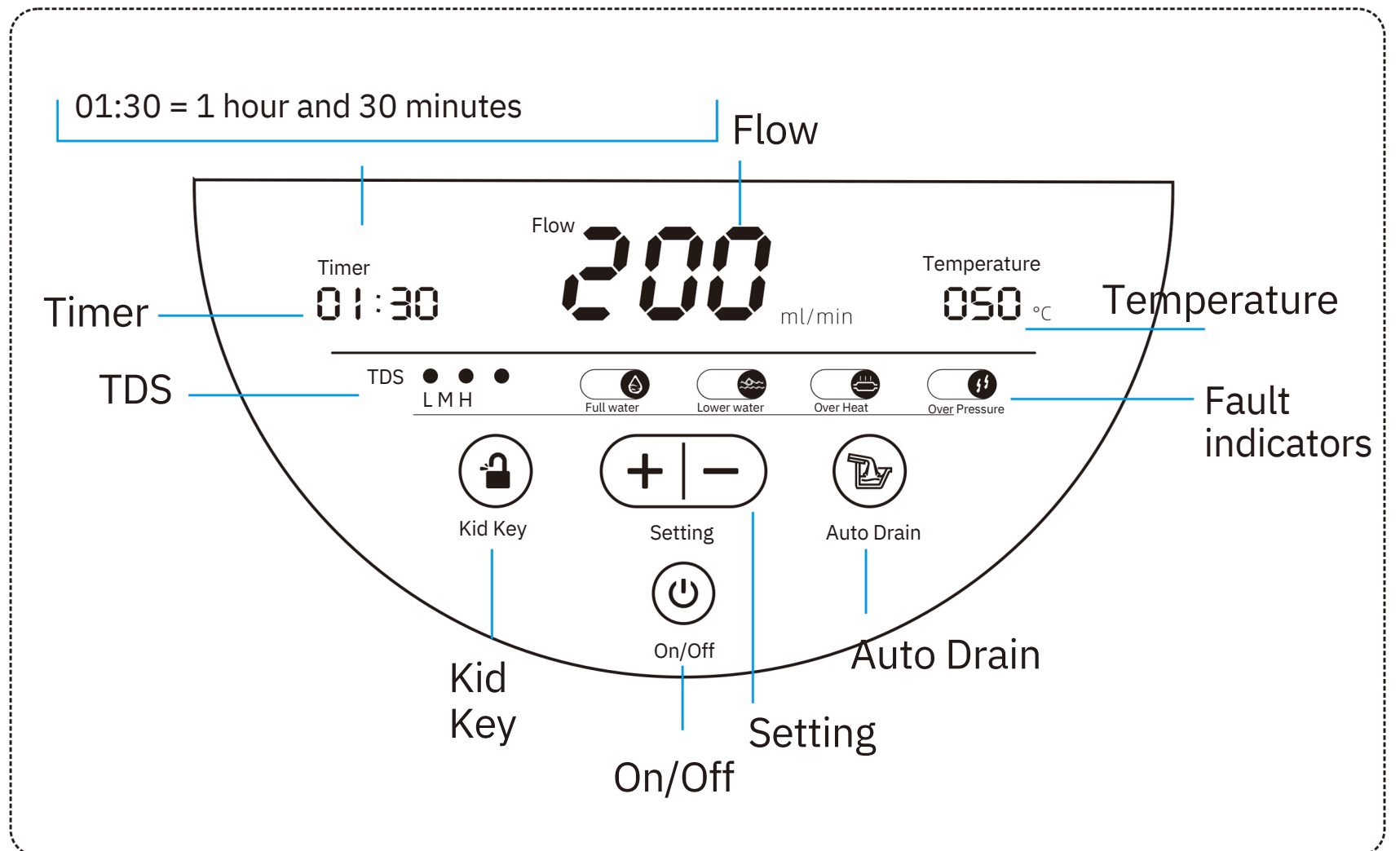
Touch the On/Off button to turn on the control panel.

Protection Code E1 will be displayed as there is insufficient water in the tank.

## Add Water



Remove the temporary silicone plug from the water inlet. Using a clean funnel, pour distilled water into the tank until code E1 clear. Do not fill more than 80% of the tank to prevent damage to the unit. After adding water, install the plastic cap and turn it to the “on” position.





## Set the Timer

The Settings (+/-) buttons control the duration of H<sub>2</sub> generation. The timer range is 1/2 to 8 hours. Once the timer is turned on, the H<sub>2</sub>-GEN will start producing hydrogen. The timer will start to countdown.

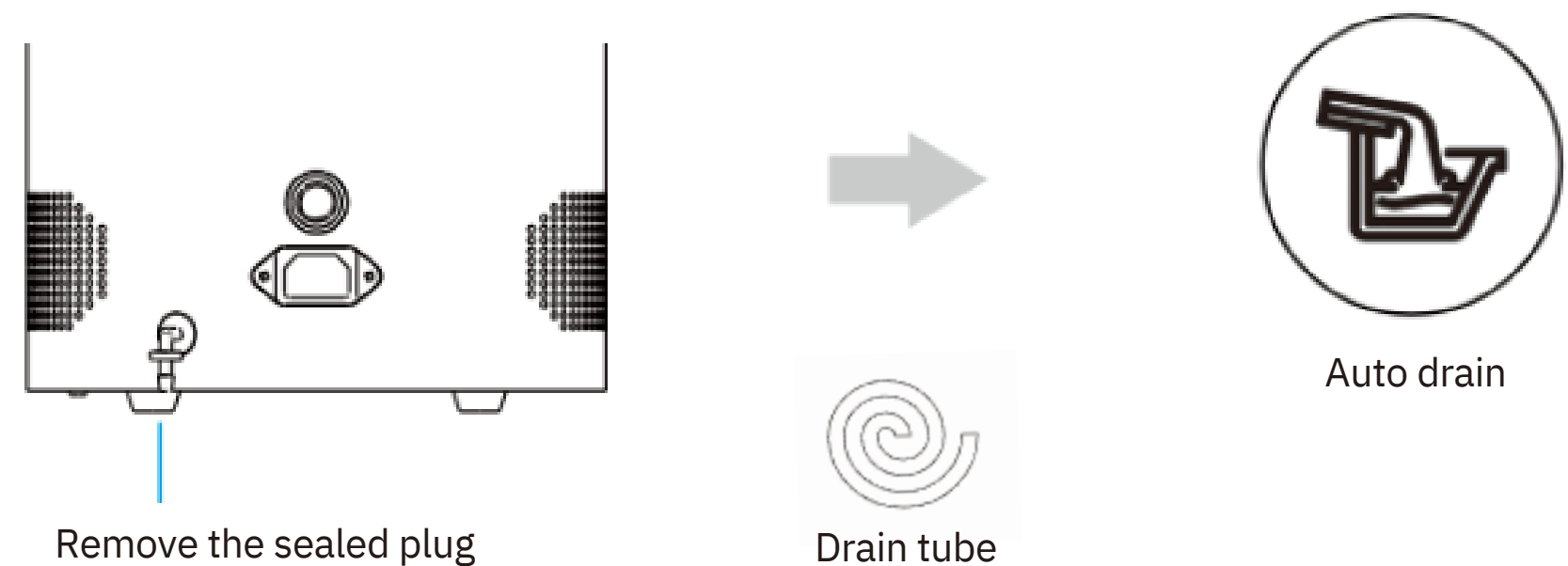
To turn off H<sub>2</sub> generation, touch "On/Off".

## When to drain the water

- Replace the water after the first week of use.
- If the water quality (TDS) fails to meet the standard during refilling, the panel will show "L." If this occurs, drain the water and refill with distilled or demineralized water.
- **when transporting the generator.**

## How to drain the water

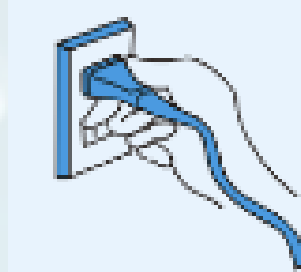
1. If the generator is in operation, press "On/Off".
2. Remove the plug from the drainage port and connect the drain tube.
3. Put the other end of the drain tube in an empty container to collect the water.
4. Ensure the red power switch on the back is turned On.
5. Touch "Auto Drain" for 3 seconds to start it.
6. After drainage is completed, re-install the plug. Do not keep this port open as it can become blocked with debris and cause a protection code E6 (see page 13).





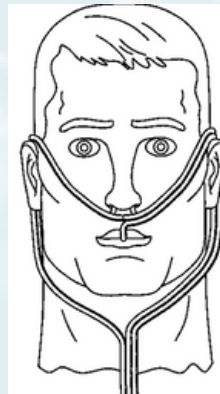
## Additional Use Guidelines

If the unit will not be used for more than a week, switch off the red power button and disconnect the power cable from the electrical supply and the power outlet.



### NASAL CANNULA USE

- Proper use is shown here.
- Do not share cannulas.
- Disinfect after use.\*
- Replace cannula as needed.



### GOGGLE USE

- Disconnect the ear tips from the ear cannula and connect these tubes to the connectors on the bottom of the goggles.
- Disinfect after use.\*



\* 3% H<sub>2</sub>O<sub>2</sub> or boil in water

HYDROGEN WATER: Use the main tubing from the ear cannula to connect the bubbler to the H<sub>2</sub> outlet. Bubble water for 5-10 minutes. Drink immediately as H<sub>2</sub> dissipates from water quickly.

Timely heat dissipation: Turn off the generator for a minimum of 1 hour for every 8 hours of use.

Suitable for everyone: Children and adolescents who are seriously ill and unable to take care of themselves should be supervised.

Crackling sound during operation: Static electricity is formed by friction or by the redistribution of charges caused by the mutual attraction of electrical loads. During use, static electricity produces a crackling sound, which is a normal phenomenon.

SAFE USE: If you feel uncomfortable during use, stop immediately.



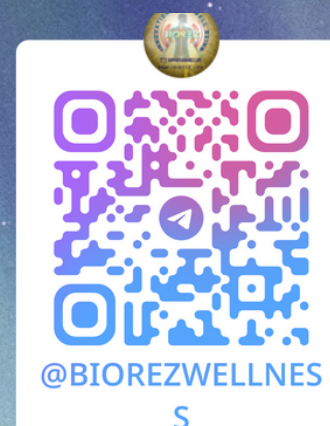
## Troubleshooting & Protection Codes

Protection code	Issue	Check points and exclusions
<b>E1</b>	Low Water Level - light will be illuminated.	The sensor will shut off the generator when E1 is tripped to protect the unit from damage. Add only distilled or demineralized water only to clear the code.
<b>E2</b>	Overheating detected, unit shut-off for protection	When the internal temperature of the generator is higher than 65 degrees, the sensor will alarm and stop H2 generation. Wait until the unit has cooled down to use again.
<b>E3</b>	Low quality water detected and TDS Light “L” is illuminated.	The water quality does not meet the requirements. Auto-drain and add distilled or demineralized water. Auto-drain the water again, and cycle three times. Fill the tank with pure water until the voice broadcast announces that the water tank is full.
<b>E4</b>	Unit is tilted.	Reposition unit on a flat horizontal surface.
<b>E5</b>	Low water temperature	Auto-drain the water and add warmer water.
<b>E6</b>	Auto-drain port blocked	Remove drain plug or other cause of obstruction.



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