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Hydrogen Inhalation Machine User Manual



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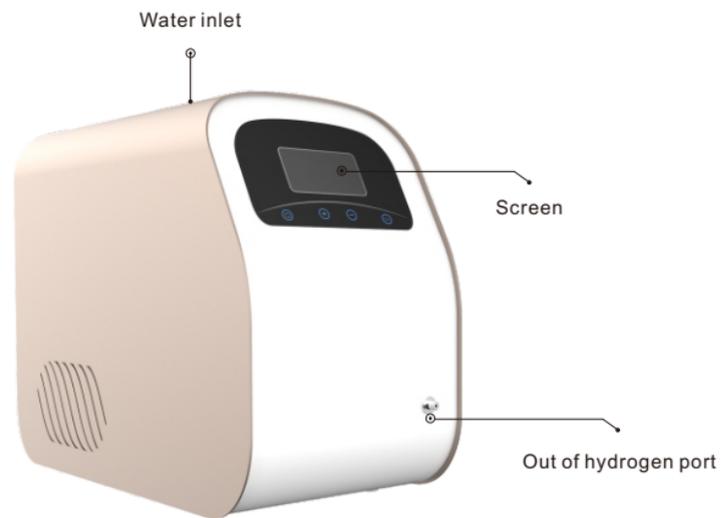
1.Operation Principle

- The electric control is consisted of three major parts: power supply, control panel and parameter acquisition.
- When the machine is working, the electrolytic water (which requires purified water or secondary distilled water, whose resistivity is greater than $1M\Omega.cm$) will be fed into the anode chamber of the electrolytic cell by gravity. With the principle of $H_2O=H^+ + OH^-$ when the power is on, oxygen (O_2) is formed in the anode chamber and will be released through the hole at the upper lid of the tank.
- Hydrogen ions, in the form of hydronium ions ($H^+.XH_2O$), will move to the cathode to form hydrogen gas and water under the electric field force. Hydrogen and a small amount of water will be discharged from the cathode chamber. After the gas-liquid separation process, hydrogen with purity of 99.99% or higher is produced.

2.Technical Specifications

Models & specifications	CH-300B
Technical parameters	
Output flow (ml/min)	300
Output pressure (MPa)	Internal pressure 0.24~0.36
Hydrogen purity (%)	> 99.99
Overpressure protection value (Mpa)	0.36
Supply voltage (V)	<input type="checkbox"/> 110V \pm 15% 50 ~ 60Hz <input type="checkbox"/> 220V \pm 15% 50 ~ 60Hz
Input power (W)	< 150
Net weight of overall machine (kg)	< 10
Overall dimensions (L*W*H) mm	425X200X337

3.Product Structure



4. Warnings

- 4.1 Using conditions
 - a. Environment temperature: 0-40℃
 - b. Environment humidity: <85%
 - c. Good power grounding.
 - d. No exposure to direct sunlight. While operating, avoid fire/flame or smoking.
 - e. Avoid large particle dust, conductive ions, acidic gas, alkaline gas, and other corrosive gas.
- 4.2 The operating environment must be well ventilated. Must not use the machine in confined rooms.
- 4.3 Before using, fill the tank with 1400ml to 2000ml of water and wait for five minutes or longer (the tank volume is 1.5L).
- 4.4 Water Level
 - Keep 1400ml to 2000ml of water in the water tank.
 - When the water level is outside of the required range (no enough or too much water in the tank) before the machine starts, then the machine won't be able to start.
 - When the water level does not meet the required level while the machine is running, the machine will keep running with alert: the Enter sign will turn red and blink, and the buzzer will go off. Once the machine is turned off, it will be able to start again once the water is adjusted to the right level.
- 4.5 Water Quality Requirements
 - Purified water (deionized water or secondary distilled water) is required. The water resistivity should be greater than 1 MΩ·cm. Unqualified water contains hard ions that will clog the micropore on the electrode, thus break the electrode.
- 4.6 Water Tank Cleaning
 - Water tank should be kept clean. Even if soft water is used strictly, there could be microbial contamination occurred. Once the tank is contaminated, not only the water would be polluted, but also the electrode could be damaged.
 - It's required to clean the tank every 2 months. The cleaning procedure is: after adding purified water, gently shake the machine to the front, back, left and right in order to rinse the whole tank, then pour the water out. Repeat the process for several times, until the water poured out is very clean and without water floccules.
- 4.7 The small hole on the upper lid of the sink is designed for oxygen release. No cover on the whole. Do not replace the current lid with another lid.
- 4.8 Empty the water tank during transportation in case of leakage caused damage.
- 4.9 Turn off the machine before repairing. Do not disassemble the machine while the machine is powered on, in case of electric shock.

- 4.10 Turn off the machine and unplug power core before change the fuse.
- 4.11 Do not use this machine for more than 60 min every time. It's recommended to use 30 minutes each time, and once or twice every day.
- 4.12 Children and pregnant women should use under doctor's instruction.

5. Instructions

- 5.1 The working environment conditions of this instrument shall meet the requirements of 4.1 in the instruction.
- 5.2 Connect the power cord to the power supply and the instrument. After the power cord is plugged in, turn on the power switch and the control panel will show the start animation and enter the set time interface.
- 5.3 Open the outer cover of the sink and add deionized water or secondary distilled water to 2/3 of the tank, The lower left-hand corner of the screen shows the water level in real time. The instrument is equipped with upper and lower alarm. When the lower limit is reached (lower limit < 1400ml), the panel will show the water level to be empty and the icon will remain blinking and not work. When the water level reaches the upper limit, the water level sign will be displayed as full and it is forbidden to add water if there is a flashing warning. Please drain excess water from the rear drain until the icon is not flashing to prevent clogging or overflowing the sink, causing the machine to work abnormally.
Then cover the lid. There is a small hole in the inside of the outside cover of the sink for the oxygen discharge outlet, please do not block!
Note: you must first add water to work, to ensure that the electrolyzer is not short of water!
- 5.4 After adding proper amount of electrolyzed water, the instrument is in the set state, the current ambient temperature, water level state can be seen on the panel. Press '+', '-' to set working time. When the water level is right, press enter and start working. The pressure parameters will be displayed on the panel and the hydrogen outlet will normally produce hydrogen.
Connect one end of the tube to the instrument hydrogen outlet and the other end to breathe.
- 5.5 Set Working Time Description
- 5.6 Press the "+" and "-" key to set the working time. The upper limit is 60 minutes, the lower limit is 10 minutes, and the default is 30 minutes. When the water level is less than 1400 ml (the lowest water level), the work cannot be opened. You will not be able to increase your working hours when you are already working.

6. Troubleshooting

Warning: Maintenance is for professionals only. To avoid electric shock, do not turn on the machine during maintenance!

Problems	Inspection	Maintenance Guide
The control panel and indication light is not on while the power cord is plugged in.	<ol style="list-style-type: none"> 1. The power plug is not connected to the wall tight enough. 2. Blown Fuse. 3. The power switch is broken. 	<ol style="list-style-type: none"> 1. Reconnect the power supply to the wall. 2. Replace a new fuse. 3. Repair or replace the power switch.
No hydrogen output flow from the outlet.	<ol style="list-style-type: none"> 1. Leak of air system. 2. Poor sealing of gas-water separator. 3. The oxygen outlet is increased and the cell is damaged. 4. module power supply is damaged. 	Stop using immediately if such malfunctions are found. Must send it to the manufacturer maintenance replacement, must not disassemble by yourself or face the consequences!
Screen level check sign flashing.	too little or too much water in the sink.	Add water to the tank until it reaches 2/3 of the water when lack of water. Open the drain plug and drain some of the water until the icon doesn't flicker if there is too much water.
The control panel light turns red, the screen pops up "55", "66", and beeps twice.	Abnormal pressure or voltage inside the instrument, which may be damaged and the machine will stop working automatically.	Send it to factory to inspect and repair, do not disassemble by yourself!
Water flowing from the slot in the bottom of the case (it is not easy to have such trouble).	<ol style="list-style-type: none"> 1. Ageing of silicone rubber hose; Aging of O-ring between metal tube and nut. 2. The cell seal pad is ageing. 3. Loose water interface. 	Send it to factory for testing, maintenance or replacement.

7.Warranty and Warranty Card

7.1.Warranty

- For the faults that occur under normal use, the warranty period is one year from the date of purchase. Paid repair will be offered (at the cost of repair only) after expiration of the warranty (including artificial damage or damage due to improper operation).
- The company shall not be held responsible for any fault or damage to the product resulting from such human causes as unauthorized disassembly & assembly, fall, and improper operation within the warranty period.
- The warranty voids in case of false product number, content or alteration on the warranty card.
- Where the warranty card is lost or incompletely filled out, the date of manufacture of this product should be taken as the start of warranty period. The warranty does not cover any damage caused by the repair performed by any other person than our maintenance personnel.

7.2.Warranty Card

Date purchased	YYYY / MM / DD
Address, name, and postal code of the dealer (or user):	
Symptom:	
Factory number:	
Phone number:	

8. Packing list

Item	Hydrogen Inhalation Machine	Power Cord	Hydrogen Tube	Instructions
Quantity	1	1	1	1