



**ZORRION ENERGY TRUST,LTD**

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## SYNERGY-H-O-H Hydrogen Hydrotherapy machine

From	ZORRION ENERGY TRUST	Date	Date		
Model	Specifications	Qty (set)	Price (USD)		Remarks
			Unit	Total	
<b>H-O-H T300</b>	-Application :pure hydrogen inhalation -Pure H2 flow :300ml/minute -Input power:<150w -Equip Special H2 inhale pipe kit -Equip portable handle(unique feature) -H2 Enriched Water cavitation tank -Voltage:AC,220v 50-60Hz -Tech employed:Proton Exchange Membrane (PEM) Solid Electrolyte Maintenance-Free and Caustic-Free -Operating Environment:Indoor, non-classified, 40° F to 104° F (5° C to 40° C), < 80% RH, ventilated -Net dimension:275 × 185 × 285mm -Net weight:<10kg	1	\$3980	\$3980	1.Requires Deionized water,redistilled water or John EllisWater  2.ask water Resistivity >1M Ω *cm,  Conductivity<1us/cm

### Terms:

1. Country of origin: Newcastle, Maine.
2. Packing: Airworthy packing
3. Trade terms: FOB Portland, ME
4. Payment terms: TT/LC, 100% paid if amount less than \$20,000 USD.
5. Date of delivery: 4-7 working days according to machine model and Qty.
6. This quotation is valid within two weeks from offer date.

### Product introduction:

H-O-H series hydrogen generator is used to produce high purity hydrogen for Hydrogen therapy and health-care treatment. A primary application is **active Hydrogen inhalation**, that research demonstrates has many health benefits. Active Hydrogen inhalation is approved safe for humans in Clinical Trials. Another important application is to make high concentration of dissolved active hydrogen in the drinking water which is also proven beneficial in numerous medical studies.

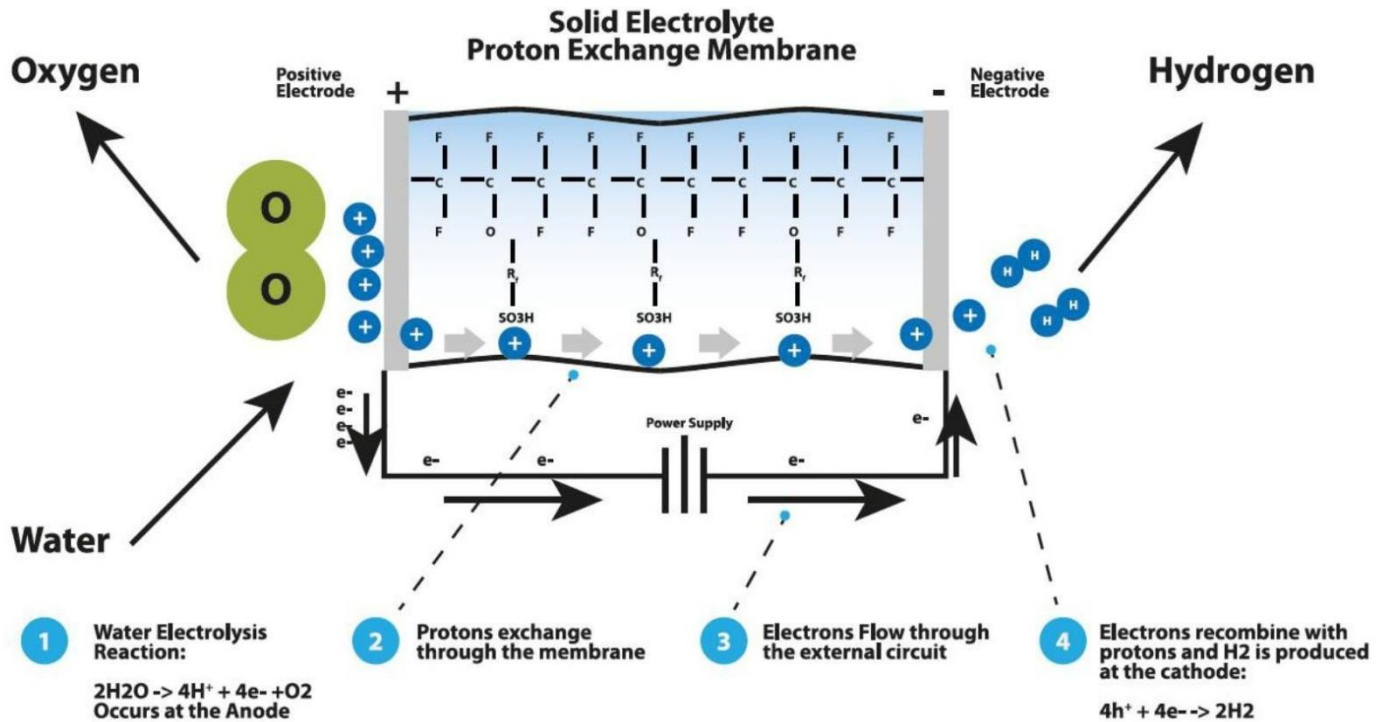
H-O-H hydrogen generator employ world leading PEM (proton exchange membrane) H2 generating technology

which is the most advanced and healthy method for therapeutic inhalation of Hydrogen. Our advanced design is the safest and easiest to use as our design eliminates the need for any caustic electrolyte or chromium ion contamination of the gas. No hydrogen gas is stored as only therapeutic amount of H<sub>2</sub> is produced on-demand.

### **Benefit of hydrogen for the human body**

1. Hydrogen's unique antioxidant effect can be effective in purging the body of malignant free radicals, repair of damaged islet cells, prevention of complications of diabetes.
2. Hydrogen treatment of rheumatoid arthritis, the goal is to control systemic inflammation, improve immunity to alleviate the disease symptoms and improve health status.
3. Hydrogen can inhibit the proliferation of tumors by scavenging reactive oxygen species and improves the quality of life during radiotherapy for cancer patients without affecting the radiotherapeutic effect on tumors.
4. Hydrogen has anti-radiation and UV anti-wrinkle effect for youthful skin. H<sub>2</sub> can promote fibroblast collagen synthesis, scavenging free radicals and inhibition of keratinocyte death.
5. Hydrogen can selectively remove malignant free radicals, inhibits inflammatory response and other effects in the treatment of cardiovascular disease thus proving to be a positive role in the treatment of heart disease.

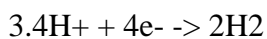
## HOW OUR PEM HYDROGEN GENERATOR WORKS



Zorrion's hydrogen generation systems use a platinum catalyst and PEM (Proton Exchange Membrane) technology to split deionized water into its constituent parts. The proton exchange membrane (PEM) only allows water and positive ions to cross between compartments.

The membrane also serves as the electrolyte in the cell, eliminating the need for hazardous liquid electrolytes such as concentrated potassium hydroxide. PEM water electrolysis simply splits pure deionized water (H<sub>2</sub>O) into its constituent parts, hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>), on either side of this membrane. When a DC voltage is applied to the electrolyzer, water fed to the anode, or oxygen electrode, are oxidized to oxygen and protons, while electrons are released.

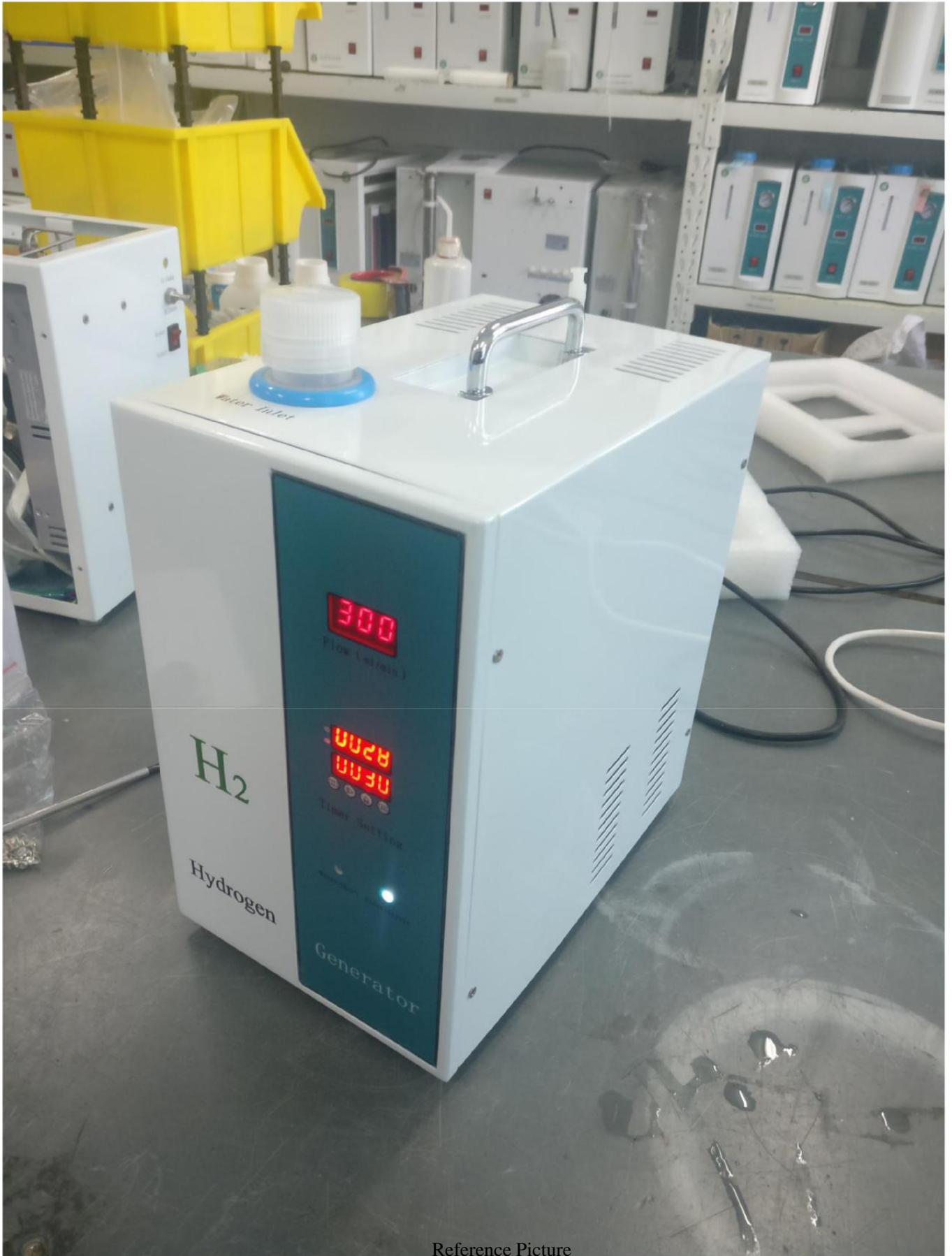
The protons (H<sup>+</sup> ions) pass through the PEM to the cathode, or hydrogen electrode, where they meet electrons from the other side of the circuit, and are reduced to hydrogen gas. The two reactions that occur in the cell are as follows:



4. Thus, the only possible components of the streams are hydrogen, oxygen and water moisture, as shown below.

## PEM Hydrogen Technology Advantages:

- 1.The SPE electrodes, as the core of the product, are highly active catalytic electrode with nearly zero distance between the electrodes, which is formed by integrating composite catalyst with ion membrane with high electrolytic efficiency.
- 2.Plural-electrode and multi-unit electrolysis cell structure. Excellent chemical technological process properties of heat and mass transfer,
- 3.Electrolysis of pure water (no adding alkali) to produce high purity hydrogen with no corrosion and pollution.
- 4.Voltage of cell is low, electronic resistance in the electrolysis cell is little for energy savings. Recycle time for changing desiccants is long.
- 5.Power consumption is less, electrolysis is extremely efficient
6. Other parts of the generator are all produced using top-grade engineering plastics of superior quality.
- 7.Advanced electric control system. Fail safe circuit operates automatically in case of emergency.
- 8.Hydrogen output ranges from 300 ml/minute up to industrial quantity of H<sub>2</sub>. Models are available for use in many Industries including hydroponic farming, whole house water treatment, health spas and resorts.
- 9.Patented technology passed EU standard CE certificate, received the top prize of BCEIA
- 10.Healthiest method for producing Hydrogen enriched water.  
Note:Traditional hydrogen water makers that employ conventional electrolysis for drinking water risk precipitating heavy metal ions and O<sub>3</sub>,ozone, that is not good for health with long term use.
- 11.One machine offers three applications.In addition to hydrogen water making, the same device produces pure hydrogen from one port and pure oxygen from another port respectively. H<sub>2</sub> can be mixed with Oxygen as required.
- 12.PEM(Proton Exchange Membrane) H<sub>2</sub> generating technology.Only needs to consume Deionized water. While traditional H<sub>2</sub> technology must use strong alkaline electrolytes such as KOH or NaOH.
13. Portable design comes with a built-in handle and is lightweight and easy to move.



Reference Picture