



HYDROGEN POD

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# OPERATIONAL MANUAL

SPE/PEM Technology  
Through Electrolysis

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MODEL H2=E 425

[www.H2EPod.com](http://www.H2EPod.com)

**Attention:**

1. Please read the manual carefully before using this instrument.
2. During use of your H2=E POD hydrogen machine. **DO NOT** put in an extra chemical such as alkali liquid (KOH nor NaOH).
3. H2=E POD 425 model, **Please keep water level between 1600ml to 2000ml This is Important as you will see the water level will need topping up every week.**
4. **Use only distilled water which needs changing every 4 to 6 months**

**Forbidden to use tap water!**

5. Used for breathing, advise breath 30 minutes -- 2 hour each time. Two times each day per people.
6. When a new machine is delivered without water. For the first time use. Please add Distilled water into water tank for whole day before use. On the second day use as normal. The machine can be left without water in for up to 2 months, ideally it is always best to keep the distilled water in the machine, this applies for if you are going to store it.

SPE/PEM technology is world advance technology that makes pure hydrogen gas. We use imported USA “DuPont” brand proton exchange membrane and 100% Titanium electrodes which are guarantee our high quality Hydrogen. The size of the H2=E 425 model is : Length: 39cm Width: 26.5cm Height: 36cm and the weight is 11 Kilos.

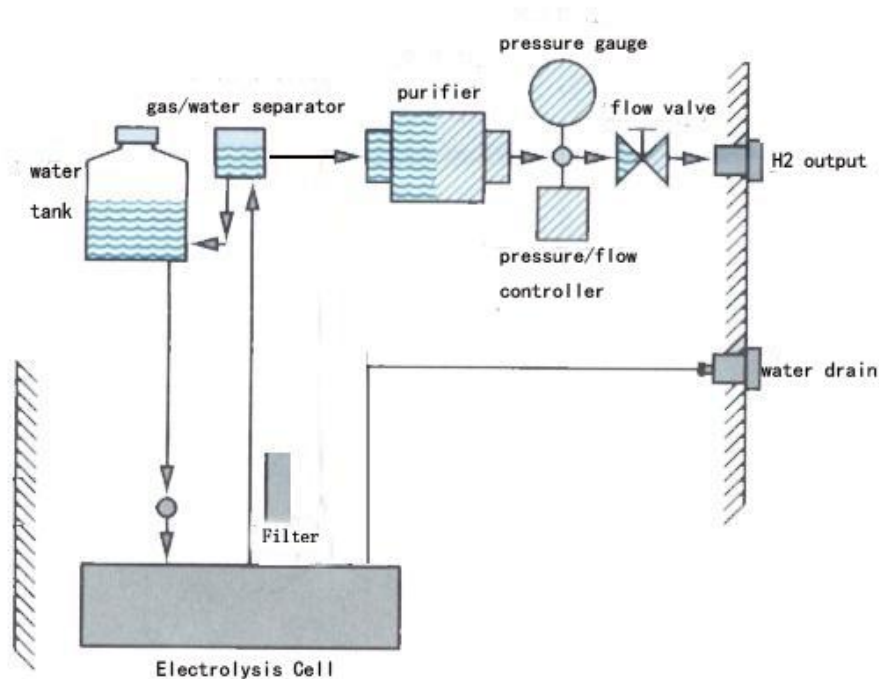
The H2=E pod only needs distilled water and little electricity, to produce 99.9% pure hydrogen gas. It is ideal for breathing and making hydrogen rich water etc.

## 1. Installation and Use of the Instrument

- 1) Firstly, take out the H2=E Pod from the package, check out appearance of machine and spare parts.
- 2) Open water tank cover (on the top of the machine), add Distilled water. Notice the water level in front of machine. For H2=E POD 425 model, water tank is 2L capacity. Please fill the water level between 1600ml to 2000ml.
- 3) Please keep the water level between 1600ml to 2000ml, as you will see it will need topping up every few days or once a week depending on use.
- 4) H2=E POD 825 model, water tank is 5L capacity. Please keep water level much more than 1/2. Which will be good for water circulation and good for cooling machine temperature
- 5) Power on, “H2=E POD On” green light is on. LCD panel shows hydrogen output flow rate on the 425 model is set around 425 ml per minutes. The 825 model is set around 825 MI per minute
- 6) Connect breathing pipe to H2=E POD output port, make sure connection no leakage.
  
- 6) When finish using, press power off. After you have pressed power off, the machine pressure will still stay around 0.2Mpa for up to 3 hours this is normal, as the machine cools the pressure will go down.

**Remark:** change whole water in the water tank after 4 to 5 months operation. Method below: drain off the water through the “water drain port” (at back of equipment). The detail is pulling out the silicone tube behind the generator and taking out the nylon cover. Water will come out automatically. Add new distilled water to use.

## Flow Chart:



## 3. Technical Parameter

- 1) hydrogen purity: 99.99%
- 2) hydrogen flow: "H2=E 425 model: 425ml/min" "H2=E 825 model: 800ml/min"
- 3) Output pressure: about 0.2MPa
- 4) Input Pure water: Distilled water
- 5) Power: 220V±10% or 110V±10%      50Hz--60Hz
- 6) Power consumption: H2=E 425 model:<300W      H2=E 825 model:<500W
- 7) Dimension: 350mm×220mm×340mm (H2=E 425 model)  
450\*250\*400mm (H2=E 825 model)
- 7) Weight: H2=E 425 model: 11kg      H2=E 825 model: 32kgs

## 4. Notice

1. Forbid operating near to flame or fire.
2. Do not use bad quality water. Such as tap water, dirty water which will destroy the electrolysis cell.
3. Do not disassemble electrolysis cell.

4. Do not open machine outside case at random.
5. If need to transport, please drain out water firstly.

### 5. Requirements for operational environments and conditions:

Temperature: 4°C– 40°C;

Humidity: <85%;

Power supply: 220V ±10% or 110V±10% 50Hz--60Hz

Machine should be put horizontally near human to convenience use;

There should be no direct sunshine and open fire;

There should no large amount of dust, conducting particles, acid, alkali, and other corrosive gases.

Ventilation should be good;

Ground connection of power supply should be good. ⚡

### 6. Failure Causes and Elimination Method

Phenomenon	Reason	Solution
Not working, power light is off	1. No power connection 2. Fuse damage	reconnect to power Replace fuse
Display is normal but Hydrogen bubble is small than normal	Gas leakage in generator, or H2 connection pipe or outside H2 generator has leakage	1. Use soap water, Check the connect position to see if have bubbles. 2. Tighten leakage position.
Hydrogen have pressure, H2=E POD display larger than actually using		
Big hydrogen flow offset	1. electrolysis cell degradation 2. abnormal power output	1. Replace or clean electrolysis cell 2. Adjust or change power
Have water in drying	Abnormal work in gas/water	Replace or clean



tube (metal case machine)	separator	gas/water separator
Large pure water consumption	1. Water leakage in circle system 2. Cell high temperature	Water leakage remove. Replace or clean the degraded cell

**After Sales Service**

Our machine come with a one-year quality guarantee on all parts and labor, delivery charge is extra on repairs. After one year, we only charge raw material fees and delivery fees.

If the following occurs, maintenance will not be free of charge:

- a. Users do not operate the generators according to the operational manual;
- b. Users open machine outside case and disassemble parts by themselves, which are forbidden by the manufacturer to be disassembled.
- c. Water levels have not be topped up.

Our H2=E Pods are used by our clients to help increase their Health and Fitness, and Hydrogen Inhalation can be used for preventative and therapeutic use.

We wish an abundance of health and happiness

From the H2=E Team

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[www.H2EPod.com](http://www.H2EPod.com)