

What you drink makes you different



**KYK Higen1+**  
Hydrogen Water Generator  
Premium Type

## Characteristics of Hydrogen



- Excellent diffusibility with a smaller molecular weight compared to the general antioxidants
- Can reach locations with large concentrations of active oxygen

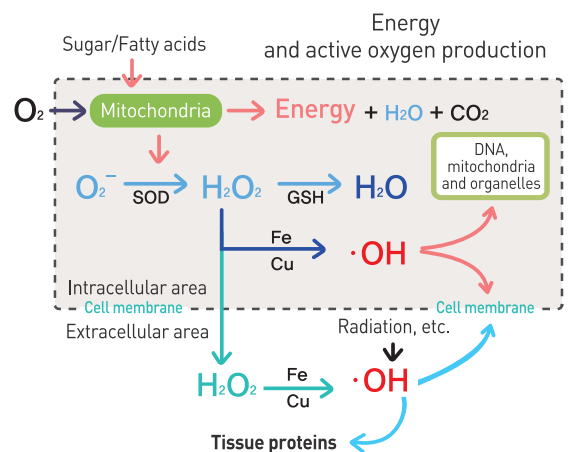
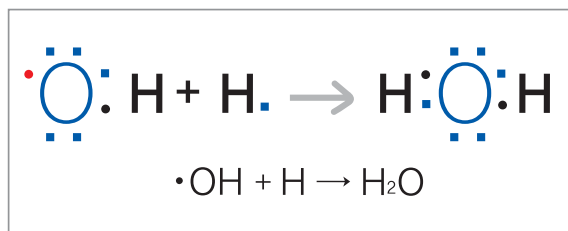


- Can pass through water- and fat-soluble barriers as it is highly permeable thanks to its small molecular weight



- Selectively eliminates radicals that are toxic to body cells

$\text{O} : \text{OH} \cdot$ ,  $\text{ONOO}^-$ ,  $\text{C}_{18}\text{H}_{31}\text{O}_4 \cdot$  etc.



- A safety source of energy that does not cause any air pollution
- Used to prevent decompression sickness among divers
- A safety food additive that has been listed in the MFDS Food Additives Codex

## | Scientific Basis |



Nature Medicine, a world-renowned and prestigious scientific journal, published a paper regarding the "effective removal of active oxygen by hydrogen" by a research team headed by Professor Otashigeo of a medical school in Japan in June 2007. Since then, hydrogen has been drawing attention in the healthcare industry as an element that has excellent antioxidant properties and does not cause any side effects.

Publication of 300~400 papers on hydrogen in addition to "The Potential Cardioprotective Effects of Hydrogen in Irradiated Mice [J. Radial Res. [2010]]" by Qian et al.

## FEATURES & BENEFITS

**Compact size**

**Simple yet refined design**



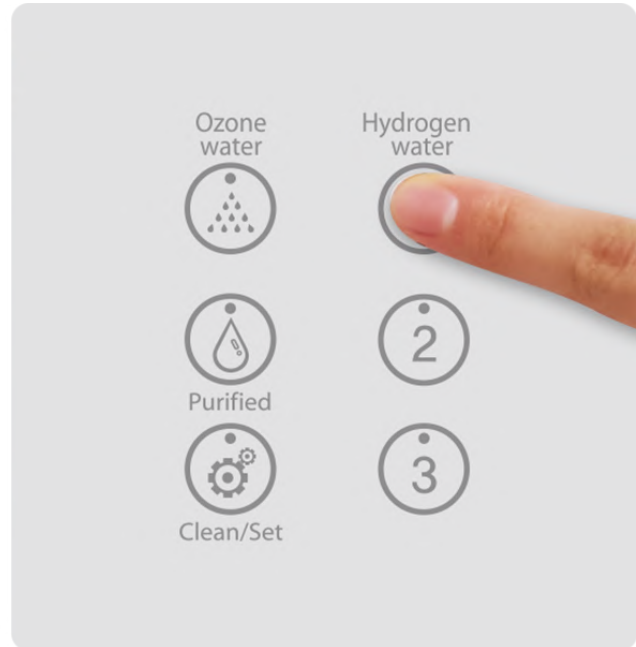
**A special clearance membrane-type electrolytic cell system incorporating advanced technologies**



Hydrogen is a clean source of energy that does not cause any pollution. It is garnering attention in the healthcare field as a revolutionary alternative for improving health, in addition to being used in the energy sector.

## Easy to Use Method

**Dispenses weak hydrogen water, strong hydrogen water, purified water and disinfected and sterilised water**



## Audio message on/off function

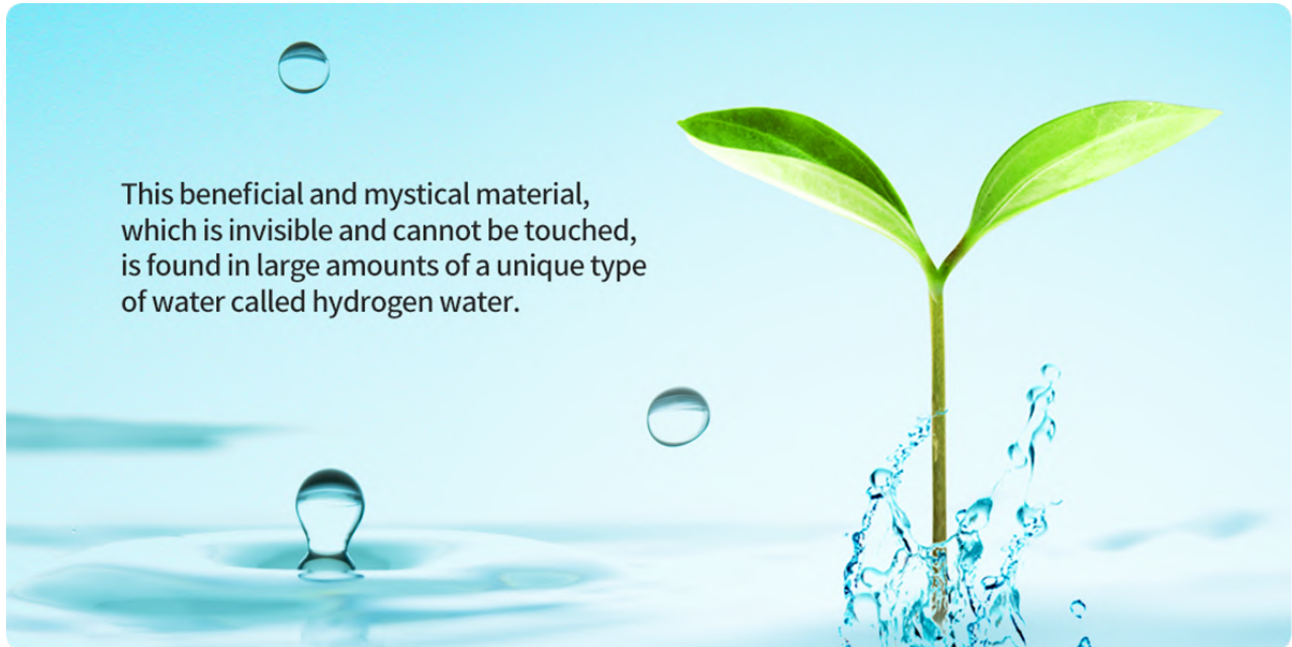
**New-concept high-performance flow valve**





## **Rich in minerals**

**Innovative technology that produces water containing up to 1,800 PPB of dissolved hydrogen**



**1 complex 13-layered filter to ensure that the water tastes clean and pleasant**

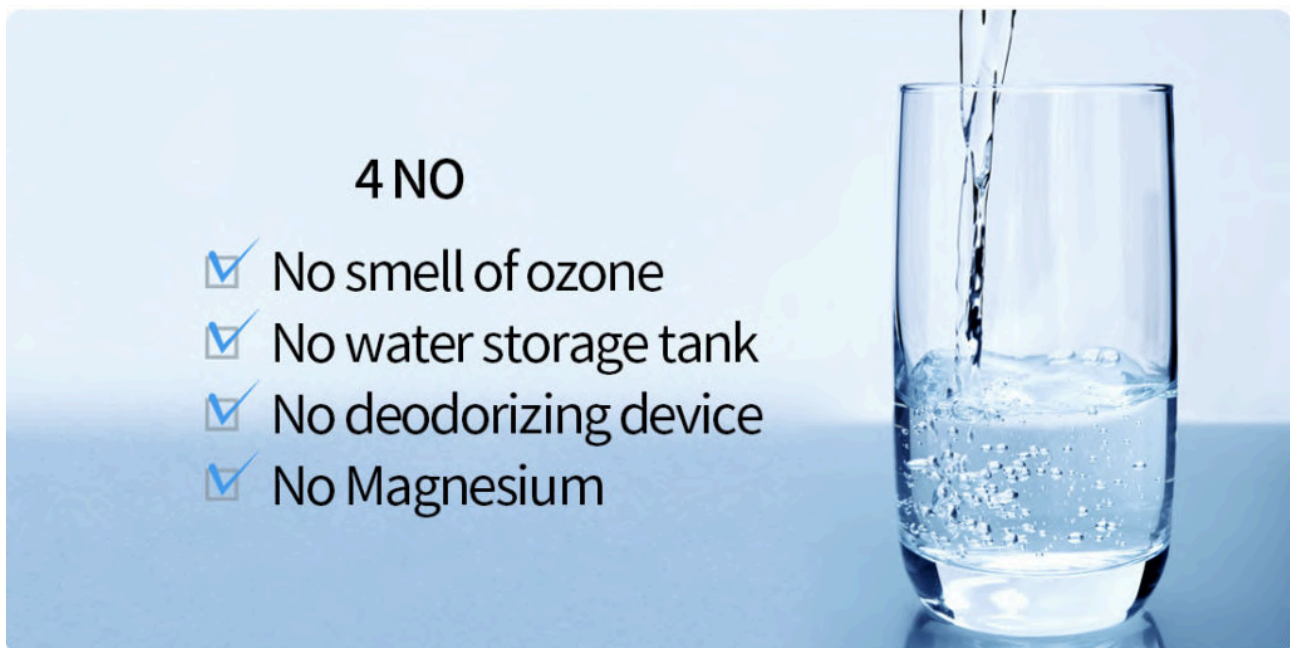


## **Automatic Cleansing and Water Drainage System of Stagnant Water from Filter and Electrolysis for more Sanitary**

### **Auto Cleansing and Water Drainage System after Usage**



**A system for generating ozone-free, Mg-free high-quality hydrogen water with abundant minerals without water tanks on both poles based on patented technology for automatic water route switching**



S.No	Specification	Description/Details
1	MRP	INR 1,45,000 (Inclusive of 18% GST)
2	Product	Hydrogen Water Generator
3	Model	KYK Higen1+
4	Size/Weight	220 (W) X 322 (H) X 100 (D) mm; 2.4 Kgs
5	Manufacturing Company	KYK Co. Ltd. (440-407 Sangdaewon-Dong Joongwon-Gu, Sungnam City, Kyunggi-Do, Korea)
6	Manufacturing No./Date	See the backside of product
7	Connection Type	Stationary/ Direct connection to tap water
8	Installation	Counter-Top
9	Water Dispensing Method	Tankless system / Premium ceramic valve
10	Rated Voltage	AC220V, 50Hz~60Hz
11	Chamber Body	Tritan™ Body (BPA free)
12	Proton Exchange Membrane	Nafion™ PEM (from US DuPont)
13	Ozone Separator	Patented KYK® Ozone Separator
14	e-cell	Solid-Hybrid Hydrogen Titanium Platinum Anode + Cathode
15	Cleaning	Automatic Pole Exchange Cleaning (APEC) after every use by Mycom™
16	Purity of Plates	99.99% (Vale, London)
17	Filter Control	Embedded filter chip to check consumption
18	ORP (mV)	Max.: - 620mV, Avg.: - 410mV
19	Electromagnetic Wave Certification	MSIP-REM-K72-kykhizen1plus
20	MSDS (Material Safety Data Sheet)	Available
21	Water purification filter	Premium complex 1 filter with 6,000 Litres; No time limit
22	Flow Rate	Continuous 0.6 L/m (or 1.2L/m~AWI)
23	Power consumption	70 W



24	Water Levels	3 Hydrogen/Ozone/Purified
25	Hydrogen content	Max.: 1,575 ppb, Avg.: 1,270 ppb
26	Hydrogen Generation Technology	Patented technology for generating high-quality mg-free and ozone-free hydrogen water
27	Water Wastage (%)	Zero
28	Chemicals/Salt	No
29	Electrical Safety Certification No.	XH070308-17001A
30	Certifications	Medical Grade: US FDA (3005720077), ISO 13485 (MK0000124), GMP, 100+ Certifications
31	Structure	FDA approved BPA-free grade plastic
32	Power Source Protector	Fuse
33	Over-Current/Temp. Detector	Automatically stops the output of electrolytic cell
34	Colours	White with black sides and silver valve

## Differentiated Technology and Superior Competitiveness!

### Key Characteristics of Hydrogen Water Generator

**Hydrogen Water Generation Technology:** KYK applies patented technology to generate high-quality hydrogen water, which is odorless, magnesium (Mg)-free and ozone-free, without requiring a water storage tank. Compared to the general hydrogen water generators, which add Mg to increase the hydrogen content or contain a water tank to supply the electrolytic cell with a sufficient amount of water, KYK's hydrogen water generators produce and dispense high-quality, Mg-free and ozone-free hydrogen water that has a high hydrogen content and tastes clean and pleasant, using the ion separation membrane and patented technology.

Devices without an ion separation membrane inside the electrolytic cell produce water that has an ozone smell and is harmful for the body, and this is why it is filtered through activated carbon. Such devices have complex structures, and they produce low-quality water.

There are also hydrogen water generators that do contain an ion separation membrane, but the outlet for ozone water is blocked completely, so these water come out by getting mixed in with the hydrogen water. KYK also offers products with 1, 2, 3, or 4 filters, as well as an embedded filter chip and control system to detect the amount of use, usage period, use of a similar filter, and reuse of a filter as a means to ensure safety and sanitation.



## Certifications

Since 2013 in India | Since 1980 in South Korea

	ISO 13485 Medical Device		13 gold medals at international invention fairs in Germany and Switzerland, etc.		Gold Medal at the World Genius Competition in Japan		Asia LOHAS certification
	Certified for conformance with Excellent Medical Device Manufacturing and Quality Management Standards		Korea's New Technology Product Frontier Award for 2 consecutive years		Grand Prix at International Innovative Design and Technical Products in Hong Kong		Certified as Good Design by the Korea Institute of Design Promotion under MOTIE
	K+ certification from KITA (Genuine and Excellent Product Made in Korea)		The Grand Prize as Representative Product of Korea at IGWT Symposium		Approx. 130 patents registered with KIPO		Selected as e-Power 300 Companies by KOTRA
	US FDA registration		Conformity certifications from the U.S. and Canada		CE marking (European Conformity)		U.S. FCC conformity certification
	Conformity certification from Russia		Safety certification from Australia		Halal certification		Safety mark for electric products
	Venture Company certification based on technology evaluation		Certified as MAINBiz for innovative management		Promising Exporting SME certification		Certified as Promising SME in Gyeonggi-do
	Certified as Excellent Enterprise by SBC		Consumers' Choice Award for 4 consecutive years		Global Leader Prize (4 consecutive years)		Consumer Trusted Brand (2 consecutive years)
	Minister of Health and Welfare Prize		Awarded from Minister of Environment		Awarded from Minister of Knowledge Economy		Puputy Prime Minister and Puputy Minister of Science and Technology Prize
	Minister of Food and Drug Safety Prize		SMBA Commissioner's Commendation		Hidden Champion Prize from the Commissioner of KIPO		Export Tower on International Trade Day