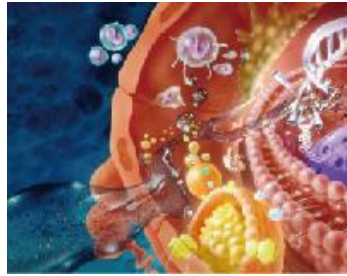


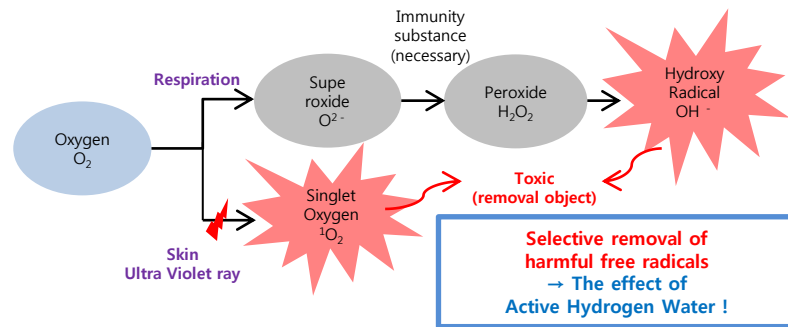
## Free radicals accelerate aging

Active oxygen attacks normal cells and the DNA genes within cells, causing over 70 different fatal diseases including cancer, mutation, blood vessel disease, Alzheimer's disease, Parkinson's disease, heart disease, stroke, diabetes, etc.



- Usually 2 – 5 % of oxygen absorbed into the body to create superoxide radicals with extreme destructive power.
- Normal cells are destroyed by free radicals to accelerate aging.

## Hydrogen water removes free radicals



- Only hydrogen can pass through cell membranes to eliminate free radicals created within cells.
- Selectively reacts to harmful hydroxy radical ( $OH^-$ ) and singlet oxygen. ( $^1O_2$ )
- Free radicals combined with hydrogen are transformed into safe and harmless water.



Hydrogen Water Bubbling

## Hydrogen water as the best antioxidant substance

- Having the smallest size of all matter, it is the only one that can pass through the blood-brain barrier to eliminate free radicals in the cranial nervous system.
- Drinking 2 liter of 'active hydrogen water', it will have the same antioxidant effects of consuming the fruits and vegetables below. (every day)



1512ea

1032ea

76ea

90ea

7.4ea

## Specifications

	HD140 H <sub>2</sub> Water Dispenser	HP214 H <sub>2</sub> Water Purifier
Electricity	AC 110V/50,60Hz	AC 110V/50,60Hz
Consumed power	Cold : 100W Hot : 450W	Cold : 120W Hot : 450W
Cold tank volume	2.7L	12L
Hot water volume	1.2L	2L
Dimension	290W x 310D x 1000H	360W x 415D x 1300H
Dissolved hydrogen	800 ~ 1,100 ppb	1,200 ~ 1,500 ppb
ORP	-380 ~ -480mV	-380 ~ -450mV
Hydrogen lasting time	80~90% remained after 12hrs	60~80% remained after 12hrs
Electrolysis power	DC12V-1A	DC12V-8A
Hydrogen water pH	7 ~ 7.8	7~7.4
Sterilization water	Possible	Possible

## Manufacturer Hana Ion

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# BAIKAL

## HYDROGEN WATER DISPENSER & PURIFIER



## H<sub>2</sub> Water Dispenser HD140



### Features & Advantages

#### Top quality of hydrogen water

- H<sub>2</sub> concentration 1.2ppm
- ORP -420 ~ -520mV
- Neutral water of pH 7~7.8

#### Excellent sterilization control

- Sterilization by ozone gas
- Both of tank and bottle applied
- Sterilization water function added

#### High performance & low cost

- Lowest price for H<sub>2</sub> water machine
- highly designed reliability

## Scoop H<sub>2</sub> electrolyzer – HD140

- The world 1<sup>st</sup> submersible electrolyzer
- Easy installation and high performance with low price
- H<sub>2</sub> water and O<sub>3</sub> water generated selectively
- Patented structure & technology

$$\begin{aligned}
 (+) 2\text{H}_2\text{O}(\text{l}) &= \text{O}_2(\text{g}) + 4\text{e}^- + 4\text{H}^+(\text{aq}) \\
 \text{O}_2(\text{g}) + \text{H}_2\text{O} &= \text{O}_3 + 2\text{e}^- + 2\text{H}^+ \quad \text{proton pumping} \\
 (-) 2\text{H}_2\text{O}(\text{l}) &= \text{H}_2(\text{g}) + 2\text{OH}^- + 4\text{H}^+(\text{aq}) \\
 &= 2\text{H}_2(\text{g}) + 2\text{H}_2\text{O}
 \end{aligned}$$

Item	Specifications
Dimension	62W x 70D x 185H
H <sub>2</sub> density	800 ~ 1,100 ppb
ORP	-380 ~ -480mV
Hydrogen lasting time	80~90% remained after 12hrs
Power	DC12V-1A
pH	7 ~ 7.8

## H<sub>2</sub> water purifier HP214

### Features & Advantages

#### Continuous hydrogen water

- Patented electrolyzer generates strong H<sub>2</sub> water continuously
- Best of H<sub>2</sub> water quality

#### Excellent sterilization control

- Perfect sterilization for upper tank space by ozone gas
- Generates strong sterilization water

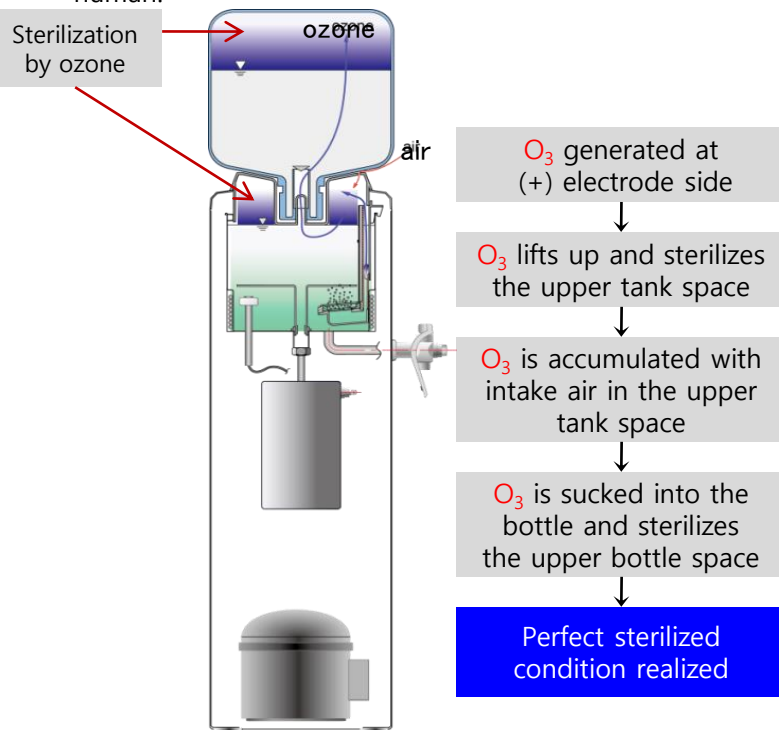
#### High performance

- Cold H<sub>2</sub> water and hot water
- Enough tank volume for commercial use



## Sterilization process – HD140

- Perfect sterilization for both of tank and bottle by **Ozone**
- Simultaneous **Ozone** generation with **Hydrogen**
- Complete tank cleaning by sterilization operation
- Ozone generated by electrolysis of water, so safe for human.



## Direct H<sub>2</sub> electrolyzer – HP214

- The best H<sub>2</sub> electrolyzer generates continuous H<sub>2</sub> water
- High performance and long lifetime
- H<sub>2</sub> water and O<sub>3</sub> water generated selectively
- Patent pending structure & technology

$$\begin{aligned}
 (+) 2\text{H}_2\text{O}(\text{l}) &= \text{O}_2(\text{g}) + 4\text{e}^- + 4\text{H}^+(\text{aq}) \\
 \text{O}_2(\text{g}) + \text{H}_2\text{O} &= \text{O}_3 + 2\text{e}^- + 2\text{H}^+ \quad \text{proton pumping} \\
 (-) 2\text{H}_2\text{O}(\text{l}) &= \text{H}_2(\text{g}) + 2\text{OH}^- + 4\text{H}^+(\text{aq}) \\
 &= 2\text{H}_2(\text{g}) + 2\text{H}_2\text{O}
 \end{aligned}$$

Item	Specifications
Dimension	124W x 66D x 215H
H <sub>2</sub> density	1200 ~ 1,500 ppb
ORP	-380 ~ -450mV
Hydrogen lasting time	60~80% remained after 12hrs
Power	DC12V-8A
pH	7 ~ 7.4

## Sterilization & O<sub>3</sub> water – HP214

- Perfect sterilization for tank space by **Ozone**
- Simultaneous **Ozone** generation with **Hydrogen**
- O<sub>3</sub> water for sterilization taken from cold water cock
- Ozone generated by electrolysis of water, so safe for human

